# UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

FORM 10-K

(Mark One)

ANNUAL REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

For the find year ented December 31, 2018

Instructure, Inc.

Delaware (State or other jurisdiction of incorporation or organization)

6330 South 3600 Emt, Saire 700
Salt Lake City, UT 84221
(Address of principal executes efficis) (Zip code)
Registran's triplane number, including area code: (800) 203-0755
Socurities registered pursuant to Section 12(b) of the Act:

Title of each class Common Stock, par value \$0.0001 per share

26-3505687 (LR.S. Employer Identification No.)

Name of each exchange on which registered New York Stock Exchange

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In this Annual Report on Form 10-K, "we," "our," "us," "Instructure," and the "Company" refer to Instructure, Inc. and its wholly-owned subsidiaries.

line 1. Business.

Masters and Yshan

Institutive's mission is to help people laters and develop, from their find day of school to their last day of work. One vision is to help organizations everywhere leverage technology to maximize the potential of their people.

In today i d ysumic, knowledge-driver economy, quality education and constant learning are critical to the success of people and organizations. Academic institutions recognize that for aducts to reach their maximum petential, they require an interactive and accessable learning economers. Similarly, companies when to compete by delivering confinences learning and feedback in better attract, develop, estain and presente the best people. Organizations in both markets—education and corporate—due require actionable data to reassure, track and improve individual and arganizational performance.

Will applications for learning, successment and performance management, Instituter enables organizations workholds to develop, delivor, manage and track crapping academic and craployer development programs. Built on our innovative, cloud-based platform, our applications combines provedly elegated across-box feed from the first limitally executed, scalability and support our conteness require. They include:

- Garners Laming management pullution for k-12 and highly electricisms.

- Bridge: Employer development and engagement platforms.

For the millions of students, teachers and employers who are our applications to achieve their educational and preferentianal grad, we provide a native-cloud, engaging and intuitive our experience designed for frequent and open interactions, a tenomined workflow and the creation and abusing of content. Our open students of their integrations with third-party publishess and software provides to achieve address allowed tuning content and applications. We also provide data analytics capabilities, enabling existing and interactions to information and bondamarking in order to present and correct and applications of the content of the provides that analytics capabilities, enabling existing and interaction to information and bondamarking in order to present and correct and applications of the provide an analytics capabilities, enabling existing and interactions to information and bondamarking in order to present and or creation and applications. We also provide an analytics capabilities, enabling existing and interactions are consistent and order to provide a native content and professional applications. We also provide an analytics capabilities, enabling existing and interactions and bondamarking in order to provide a native content and professional applications. We also provide an analytics capabilities, enabling existing and interactions are content and applications. We also provide an analytic capabilities, enabling existing and interactions are content and applications. We also provide an analytic capabilities, enabling existing and an analytic capabilities.

We deliver our applications through a Software-out-Service or Sack Summer and Continuence can apply deploy our systems with minimal aplicat implementation. They also benefit from regular software updates and 99.9% sprines. Our Sack Summer model reduces the rest for our continues to long and support a breast tamper of IT inflamentation, and values for each consistency and support a breast tamper of IT inflamentation, and values for each continue of IT inflamentation and support of the primate continue.

We launched our first offering. Carsus, in February 2011 and have experienced rapid customer adaption in the education market. To better meet the needs of the corporate market, we brecaugad a portion of the foundational code underlying. Carsus to develop Bridge, which we launched in February 2015. Subsequent offerings include Carsus Internetive Video, which we launched in 2016, and Carsus Assessment, which we launched in 2017. As of December 31, 2018, we had over 4 2000 customers, representing conleges, universities, X-12 schools and composition in mem for 87 december 31.

For 2013, 2017 and 2016, our revenue was \$2095 million, \$261.0 million and \$112.6 million, respectively, representing year-ever-year growth of 30% and 43%. We have experienced net revenue retention rates of over 100% at each of December 31, 2013, 2017 and 2016. For 2013, 2017 and 2016, our exhibits was \$4.5 million, \$451.2 million and \$451.2 million, respectively, as we focused on growing our business.

- and our platfies from the ground up with modes, web-based design finances for more and collections around any solver, around a voice source of production processing systems, don't completely a simple for the ground of production processing systems, around a simple for the ground of production processing systems, around a simple for the ground of production production around a simple for the ground of ground of production around a simple for the ground of ground

paramage to knowing mixtages is grow on business. Grow and LSC described Res. We believe that the mixtuel for cloud-based learning, assessment and performance applications remains underserved. K-12 academic institutions have yet to widely adapt learning management systems, while higher education institutions have adjusted legacy systems with which they are delto manifelded. In the corporate marriact, these are bed sprantially described approximation to deplote legacy systems that do not next continuous each, As a result, we believe there is opportunity to equal on the set US. assessment and comparts are made as a result, we believe there is opportunity to equal on the set US. assessment and comparts are made as a result, we believe there is opportunity to equal on the set US. assessment and comparts are made as a result, we believe there is opportunity to equal on the set US. assessment and comparts are made as a result of the set of the set

- Further Manifest our Existing Castonner Base: The majority of our made mic customers implement Carsas which you find their institutions and across wholed distincts. This approach to well entited deplyments allows to the efficiently and breadly present adaption and understand of Carsas by substant and facility in the first and facility of the first and fa

Our applications enhance academic and competate learning by providing a system of caugament for teachers and learners, enabling frequent and open interactions, a streamlined workflow and the creation and sharing of content with anytime, anywhere access to information. Our applications not an even with powerful curyo-see functionality for intuitive interactions with course center and articitives. All of our applications not on our extensible platform, which allows us to cash playby new applications and features to support the excels of our extensions. We use modern, making teaching powerful companies, applications and contract the contraction of the co

Cavas Learning Masagument Parloren

The Carriar Learning Managument Parloren is an extendable, contaminable, highly integrated of of solutions designed to more the teaching and learning meeds of every K-12 and higher education institution, including the Caurus LMS, Carriar Assessment, Carriar Network, Carriar Carriary in Interference and more connected learning experience.

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communicate through amountments, messages and conferences;
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grade assignments, using Special/ander, and post grades online;
facilitate and and white communications for enhanced teacher and student orangements,
access an integrated learning object repository;

subject course and student data to reprove fearming neutrons and tracking methods;
 set promotable databasis gain and track performance;
 protein general or abhore access to suppose and agrades;
 including a short access to suppose and agrades;
 including a last and add the deproy activation and content time the Eak App. Center; and
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Additionally, Carvas supports standards-based integration with hundreds of third-party publishers and software providers. The extensibility of the Carvas application enables our customers to build a learning and teaching environment that meets their unique organizational needs

Carnes Network

Carnes Network allows agree around the world access to spee ordine consent for present and professional development. Through Carnes Network, academic institutions have the Brackholly to offer and defiver corners over the internet to a much broader andessee than just their unre complexer or on complexers or accompanied for the brack of the brackholly to offer and deliver corners over the internet to a much broader andessee than just their unre complexer or on complexers or on companied for the brack of the brackholly to offer and deliver corners on the brackholly to o

Carma Cadag.

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Canna Internetive Vides
Canna Internetive Vides is a seets agmentation online vides platifiem designed to enable corporati, K-12 and higher education continues to best, manage and deliver impactful video learning experiences. Our continues who also use Canna or Biologic can seamlessly integrate Video for analysis and continued, easy-ness with learning administration for provide the interactively, margin and clinicality organizations need to energy the employees and markets.

- Value for a moders, streamford, easy do see video turning statem that provides or memority, suggest near training value for the contract to the contract of the contract

Cursa Securence is a comprissive assessment management system that empowers K-12 schools and districts to recover sident learning and preparations for high-plates cursa manufactally federal and state regulations. With our simple, degrat and exhibit to time platform, contact and deliver effective benchmark cursas with simple diployment workflows, leveraging data collected to guide instruction and enhance curriculus schools or district-wise. Our customers who also use Cannot LMS can integrate Cannot Assessment for a scandiss user curriculus.

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Technology and Standards

Mills on a modern technology stack, our native-cloud, multi-tensat platform and applications scale to millions of users and enable us to beverage advancements in sech design, open source technologies and security. We after: to industry-standard best security practices to protect our servers and our enablements of richal information.

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We have not pullers and applications on colon information provided by Amazon Wed Services, or ARS. We jimmarly use Amazon Elantic Comput Cloud, or Anzann EL2, along with land balancing, axis usualing and storage services provided by ARS belong services provided by ARS and the services of the services

On between your and an experimental product is demand on the production between the or meaning and proximiting schoolshops. We see Wed 26 technologies like Buby on Bull, low and Yorkin, which provide course limiter web experience. On platform was built or multiplying ages and the provides and the desire of the provides of the provides and a provide course and function of the provides and a set of the desire of the provides and a set of the desire of the provides and a set of the desire of the provides and a set of the desire of the provides and a set of the desire of the provides and a set of the desire of the provides and a set of the set of the provides and a set of the set of the provides and a set of the set of the provides and a set of the set of the provides and a set of the provid

Keeping our platform scene is a primary focus of our dedicated enterprise security team due to the sensitive nature of the data contained within the applications. We are diligent about data security and have adopted the AICPA SOC 2 set of security controls. We demonstrate compliance with these controls frough annual audits and web applications valueability assessments.

As of December 31, 2013, we had over 4,000 customers representing college, universities, school districts and companies in more than 70 countries. Carno is used by seven by Largue schools and we have E-12 customers in nearly all sates. The majority of not academic customers in implicate Carno workly within their institutions and across school districts. We define a customer as anothy with an active subscription contact. It is institutes where there is a single contact that applies to existe the majority of most academic contact than a contact processing and the contact processing a

Sides and Marketing

We call our applications and services through a direct sales force. Our sales organization includes technical sales registers who serve as expent in the technical supects of our applications and customer implementations. Many of our sales efforts require us to respond to request for proposals, periodately as the higher obscurion space and to a lesson extent in E-12, and to a minimal criteria in the expense market. As we grow intermedically, we not up our reader particularly as condition provided by markets combined used to read the contraction of the expense market. As we grow intermedically in the higher obscurion in the sales of the contraction of the expense market. As we grow intermedically in the contraction of the contraction of the expense market. As we grow intermedically in the contraction of the contraction

We engage in a variety of inalismal and online marketing activities designed to provide such include generation and valos support and promote brand awareness. Our specific marketing activities for lead generation metales absorbing including wave for marketing activities for a lead of the support of the provided provided and prov

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- Communing Services. We cliffe custom approaches development, stripgarous, custom are sevence are camping—analysis—as a comparation of the comparat

Partner Ecosystem and Integration

We are committed to enabling our customers to boild an ecosystem for successful learning, assessment, development and congenience. Our open platform is central to both our schedulogy and our strategy.

True a schedulogical prospective, we remain focused on implementing industry standards like IMS Clabel Learning Consortion's Learning Tools Interoperability, or LTI, enabling Carros and Bridge to integrate with a broad spectrum of finish-party solutions used by our customers.

Our particularly program in the lade-party software, service and content providers, frough a library of AFIs, to easily integrate with our applications and at our minimal charge to the partner. This allows us to broaden and efficiently retained the functionality of our applications, which are not made of partners, including Parson, Modern Mill Education, Coppige, AspetTDI, Mersond, and Parketti.

Research and Dividence of the Control and Control

Culture and Emphysics

We are partitioned about making learning and working more engaging and accountly for people corpyshors and we apply that some vision as Industrate every day. We minitian seven values that we believe set us apart, define our company culture and serve as a strategic advantage and seven significant with the applications and people.

Guitament Expriseries. We give to creat an an accountment expresses in every interaction with our applications and people.

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We operate in highly competies markers. Curvus primarily competes with systems offered by Blackbard, D2L and Moode in the education market. Bridge primarily competes with systems offered by Comentone OnDermanl, Saltu Software and Sum Total Systems (owned by Skillsoft) along with dozen of small, specialized systems for specific industries to large, generalized systems provided as part of a larger human resources management nate.

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We believe that we compete favorably on the basis of these factors. Our ability is remain competitive will depend to a great exist upon our our opining performance in the areas of product development, partner consystem development and contoner support. In addition, many of our competition, principally the large subtract competition and contoners to the development, partner contoners to the development, partner competition and contoners to the development of the development of

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To generate our open patterns policiously, we make available a substantial portion of the course course of the cou

wages when and that the estimations do not visible any third-poly interface property right.

We consider some some and our of the productive property including contracted protections with employers, contacters, contents, and partners, and nor software is protected by U.S. and international copyring from a to require employers and adoptive contracted in a specific production of the produc

The logal environment of internel-board businesses in evolving upsigly in the United States and clearbor. The numeer is which existing lears and regulations are applied in this environment, and how they will reduce to our business in particular, both in the United States and internationally, in other nature for example, we construct ever comment of the contract businesses and the contract processes and the object in the contract processes and the object in the contract processes and the processes are also the processes and the processes are also that the surface of the processes and the processes are also that the surface of the processes and the processes are also that the surface of the processes and the processes are also that the surface of the processes are also that the processes are also that the processes are also that the processes are also the processes are also the processes are also that the processes are also that the processes are also that the processes are also the processes are also that the processes are also the processes are also that the processes are also the pr

Our customers, and those with whom they communicate using our applications, upload and store customer data onto our platform. This presents legal challenges to our business and operations, such as rights of privacy or intellectual property rights related to the content loaded onto our platform. Both in the United States and internationally, we must monitor and comply with a wide variety of laws and regulations regarding the data stored and processed on our platform as well as the operation of our business.

Data privacy and security with respect to the collection of personally identifiable information, or PII, continues to be the focus of worldwide legislation and regulation. We are subject to data privacy and security regulation by regulatory authorities in the U.S. (including the states in which we conduct or believe) and potentially in other countries.

which we conduct our binness) and potentially in other countries.

It is now strawn, the both the press to a fine of the "policion failed and benches involving the manufactural nee and darksones of nativitation." He Many states have emposed to from exclore by emering laws regaring lookes of personal information to maintain suffigurable and to take certain increases to a data break, what as providing personal personal needs to affect a finish that and state efficiently or members of certain the present of the finish laws a second continuous transfers. The finish laws a finish that the finish laws a finish that the finish laws a finish that the finish laws a finish law of the finish laws a finish laws a finish law of the finish laws a finish laws a finish law of the finish laws a finish law of the finish laws a finish laws a finish laws a finish law of the finish laws a finish laws a

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We were incorporated in Delivere in September 2008. One principal executive delices are becomed at \$339 South 2000 East, Soite 700, Solt Lake City, UT 84121 and our telephone number in (800) 203-6755. Our corporate website abdress is www.instructure.com. The information meet is, or fast can be accessed through, our website is not part of, and is not incorporated into, this Annual Report on From 16-K.

W. GE electroscally with the Securities and Enchange Commission on Annual Regards or From IRX, Quartery Regards or From IRX and amendments to those opport, field or familiard parameter to Security Inc. (Security Regards or From IRX and amendments to those opport, field or familiard parameter in Enchange Act of 1914, as amended We male available on our website at vow amendment or four or family a special or our website, opport of those opport, as soon as reasonably practicals after determining fifting such reports with, or familiaring from its Securities and Enchange Commission. In addition, the SEC materials as insterned the at vows accept the contains reports, proxy and information statements, and other information regarding issuers that fift electroscally fifting such reports with, or familiaring from its the SEC.

Item 1A, Risk Parters.

The should corplishy consider the following risk factors, in addition to the other information contained in this report on Form 18-K, including the section of this report titled "Management's Discussion and Analysis of Francial Condition and Bearbar of Operation" and our financial assuments and reduct nears. If you of the account described in the followinger is in the report court, are bearings, specing certific and financial endition could be removed, hearing a financial report and the report of Form 18-K also contains formate desirable endough a disconnicated. For earth or all conferences the interports contained and formations and the second hearing and the count in the report of Form 18-K also contains formate desirable endough and amountained. For earth or all conferences the content of the report of the approximation of the content of the report of the approximation of the content of the report of the approximation of the content of the report of the approximation of the content of the report of the approximation of the content of the report of the approximation of the content of the report of the approximation of the content of the report of the approximation of the content of the report of the content of the report of the approximation of the content of the report of the approximation of the content of the report of the report of the approximation of the report of the report of the report of the report of the approximation of the report of the

Etab Related to Our Business and Indiancy

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We have a limited operating history, which mades it difficult for reduner our prospects and future operating results.

We hundred Cares as a February 2011 and launched litting lain a February 2015. Our limited operating history realises or ability to forecast future operating results and adoption to it is a number of successful and adoption to it is a number of successful and adoption to it is a number of successful and adoption to it is a number of successful and adoption to it is a number of successful and adoption to it is a number of successful and adoption to it is a number of successful and adoption to it is a number of successful and adoption to it is a number of successful and adoption to its analysis of successful and adoption to its ana

We have constructed and will excounter risks and mortisation frequently experienced by growing companion in rapidly damaging industries, such as doctominating appropriate investments of our limited resources, maker adaption of our current and finner applications, competition from other companies, accurate growing and ristating includents, being, single-growing and ristating includents, being single-growing and contract terms for our applications, underscore expenses and challenges in forestating accuracy. If our assumptions regarding from the all materiated this section is a second to a challenge of the second terms and a second terms and a second terms and a believes usual the second and a second a second and a second a second and a second a second and a second a

We depend on now continuer acquisition and expansion and continuer received to grew our hashors.

We derive, and expect to continue to derive, a substantial imaging of our recuser from the size of new subscriptions or received of subscriptions to our knowing management platform and applications. Our growth budge is grownedly driven by new subscriptions. Our continuer to provide the size of the subscriptions of received in the size of the subscriptions of the continuer to the size of the size o

Because our recent growth has resulted in the rapid expansion of our business, we do not have a long history upon which to base forecasts of eastomer renewal rates or future revenue. As a result, our future operating results may be significantly below the expectations of inve-which could harm the market price of our common stock.

We have a limited bistory with new subscription and pricing madels and changes in our models could adversely effect our revenue, great prefit and flamerical positions.

We have limited experience with respect to determining the optimal prices and context though fire or platform and applications, in particular with histogic, and as a result, we have in the gas and expect in the flamer that we will need to change our pricing model or context bugsh from these to time. It for an expectation prices, as new completion applications are revenue, or as we certificate to expect the result of the context of the price and the prices are received in the context of the prices are received as a few prices are related in the context of the prices are received in the context of the dust or context or

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- unforced costs and expense related to the expansion of on business, specialism and inflatinestare, hechaling disruptions in our hesting network inflatinestare and privacy and data accuracy to the privacy conductor are flatitudess, and period conductors and inflatiness and inflatiness and periodic conductors on of mencios and international markets.

We may not be able to accutately forecast the amount and mix of future subscriptions, size or duration of contracts, receive and exposes and, as a result, our operating results may full below our estimates or the expectations of meeting, or below any ostimates we may provide, the market price of our common stock could decline.

Our healenen is subject to second adors and customer growth floratations which could result in vitality in our operating results.

We have historically experienced pattern of higher total count for examine customers in the count and find quarters, as a result of a doned processent pariods, which are hypothyl haved on a fixed year ending have. We This has resulted in lower expended ables and existence growth in the desire quarter of higher and the quarter of the secondary of the part of the secondary of high part of the part of t

We could for erross of flore or charge in the spending paticia or hadpet printing for promount faulting of colleges, anteresties, whosh and other education providers.

\*\*Dec Course continents helder colleges, unservices, \$5-12, shooks and other education providers, many of which depend substantially on government faulting. Accordingly, any general decrease, delay or change in federal, state or local faulting for colleges, universities, schools and other education providers, many of which ended causes as to his excellent and eventually appeared to be substantially on government faulting. Accordingly, any general decrease, delay or change in federal, state or local faulting or colleges, universities, schools and other educations are considered as a substantial considered as a s

Reason we generally recognize recease from subscription residely over the terms of the approximat, near term changes in sales may use for reflected immediately in our specialistic mass in terms, ascenances, development and programms approximate programms and programms and programms and programms and programms and programms and programms are programms as the process of the approximate process and the process of the approximate process and the approximate process and the approximate process and the approximate process. As a trend, much of the revenue we report in each approximate process. The approximate process are the approximate process. As a trend, much of the revenue we report in each approximate process. The approximate process are the approximate process. As a trend, much of the revenue we report in each approximate process. The approximate process are the approximate process. As a trend, much of the approximate process are the approximate process. Our subscription model alone makes of defined from the approximate process. Our subscription model alone makes of defined from the approximate process. Our subscription model alone makes of defined from the approximate process. Our subscription model alone makes of defined from the approximate process. Our subscription model alone makes of defined from the approximate process. Our subscription model alone makes of defined from the approximate process. Our subscription model alone makes of defined from the approximate process. Our subscription model alone makes of defined from the approximate process. Our subscription model alone makes of defined from the approximate process. Our subscription model alone makes of defined from the approximate process.

He marked for our applications dendary near sharely than we appeal, our greated way done or stall, and our operating results would be harmed.

The markets for learning, ascensioned, development and registered services as all covining, and we depend on continuing growth of these markets. In particular, we do not know whether the total of adoption of cloud-based learning management systems we have experienced with our analysis of the particular and the continuing growth in particular, we do not know whether the total of adoption of cloud-based learning management systems we have experienced with our analysis of the particular and the continuing growth in particular and the continuity growth in particular and the contin

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He face significant competition from both contribilities and new companies offering interning accessment, development and angapament systems, which may have not adulty to gain new continuents, revision continuents and gain over a continuent of the E-12 and corporate medical. With the introduction of new technologies and the potential entry of new competitions into the medical contribution in the E-12 and corporate medical. With the introduction of new technologies and the potential entry of new competitions into the success and continuents are provided as part of the E-12 and corporate medical. With the introduction of new technologies and the potential entry of new competitions into the success and continuents are provided as part of the E-12 and competition and continuents are provided as part of a larger learned continuents are provided as part of a larger learned continuents are continuents and Sami'll and Systems (remedly S). Alless's provided as part of a larger learned continuents are continuents are continuents are provided as part of a larger learned continuents are continuents. Competition continuents are continuents are continuents are continuents are continuents are continuents are continuents. Competition continuents are continuents are continuents are continuents are continuents. Competition continuents are continuents are continuents are continuents. Competition continuents are continuents are continuents are continuents are continuents are continuents. Competition continuents a

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The stage contained managements under use to account generation of the contained of the con

Posterial curious respective production services and largety evaluations before committing to our applications and services are System, Australia, Hang Kong, Sao Pauls, Brand and Hangary One growth strategy embers the further exposures or one construction of the control of the latest and services are services and proceed information, particularly in the European Union, and the services are services and proceed information, particularly in the European Union, and the services are services and services are serviced and proceed information, particularly in the European Union, and the services are serviced and proceed information, particularly in the European Union, and the services are serviced and proceed information, particularly in the European Union, and the services are serviced and services are particularly and proceed information, particularly in the European Union, and the services are serviced and proceed information and proceed information, particularly in the European Union, and the European Union, and the services are serviced and proceed information and the services are serviced and proceed and services and services are serviced and services are particularly and services are serviced and services and services and services and services and sequences properties systems, policies, benefits and compliance programs, and services are serviced and services are serviced and services are serviced and services and sequences are serviced and services are serviced as a service and services are serviced and services are serviced as a service and sequences are serviced as a service and seq

- currency exchange rate fluctuations and the routhing effect on our revenue and exposes, and the c or and risk of entering into hadging treasactions if we choose to do so in the future.

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Our limited experience in operating our business internationally increases the risk that any potential future expansion efforts that we may understate will not be successful. If we invest substantial time and resources to expand our international operations and are unable to do so successfully not as a timely manner, our business and operating results with behaved.

If as fall on affire high-quality preferented services and supports, see heaters and regulates may neight.

[Figh-quality preferented services and supports, see heaters and regulates may as affired preference of the second analysis, said and set of our basing management platform and perfect seems and for the record of citating continues. The importance of the second analysis are as a second or better than the second analysis and the second analysis and the second analysis and the second analysis are as a second or better than the second and the second and the second analysis are as a second or better than the second analysis are as a second or better than the second and the second analysis are as a second or better than the second and the second

If we ful to namey our great effectively or our humans and grow as we report, our questing renals may inffer.

Our growth to placed, and will continue to place, a significant strain on our operational, financial and management infusionators. To manage this growth effectively, we must continue to improve our operational, financial and management systems and controls by, among other things:

- effectively structure, training and integrating new coupleways, periodality technical processed and members of nor management and and training and the training fraction and an advantagement of the structure is required or the instruction and the training and the training and demonstrate and the structure is required or the instruction and commonstrate or the structure is required or the structure or the structure and the structure is the structure and the structure is the structure and the structure and the structure is the

If we fail to manage our expansions or implement new systems, or if we fail to implement improvements or maintain effective internal controls and procedures, costs and expenses may increase more than expected and we may not expand our customer base, increase renewal rates, existing applications, develop new applications, unifortive controls of the expansion of

He rely on new management reason and other lay applyapers, and the less of our or more lay employers could have not headens.

Our success and finite provide depend upon the continued services of our management team, including a behavior counts, our Chef Executive Offices, Dan Goldanith, our Provides, and other lay employers in the areas of engineering marketing, acids, services and general administrate functions. The teaming the marketing of the provides of the engineering marketing, acids, services and general administrate functions. The teaming the finite function is a special distinct function in our Chef Executive Offices, there is a distance of the engineering marketing, acids, services and general administrate functions of the engineering of our services. The contract of the engineering of our services, including in an unit Chef Executive Offices, there is a distance of the engineering of our services and indistance of the engineering of the e

If we ful to attract and rends additional qualified generate, we may be unable to execute are hostices to integer.

To execute our humans states, ye we must take and stead to highly qualified personant, by principal, we compare with many other companies for adhese the department with high breth of experiences in designing, developing and managing cloud-host advances, as well as for a killed information technology, managing and productions, and we are quarter to be executed in a standard grade artisting the professionals we must, in particular to life, where we are bankgartered. We have four times to use conjugate, consistent to expension, and we expense to expense a compare to the law of the standard production and the standard production of the standard production contribution of the standard production contribution of the standard production contribution of the standard production contribution of the standard production of the standard productio

If we cannot maintain our company culture on we grow, we could have the interaction, reservords, position and grow on examine that we believe contribute in our success and our healthern may be harmed.

We believe that a critical component to an examine that the contribution of the policy contribution of the contribution of t

spects of company calculus. The still is maintain our company calculus, are better may be better to a maintain our company calculus, are better may be be be better to be a maintain our properties of the still be better to be a maintain of the still be better to be the still be the still be better to be the still be

In addition, if the security measures of our customers are compromised, even without any actual compromise of our own systems, we may face negative publicity or exputational hums if our customers or anyone che incurrently attributes the binne for such security breaches to us or on yourse. We recommend there there is no expression of the internation of the internation of the internation over the internation over the internation of the internation over the internation over the internation of the internation over the internation over the internation of the internation over the internation of the internation over the internation over the internation of the internation over the internation of the internation over the internation over the internation of the internation over the internation over the internation of the internation of the internation over the internation of the internation over the internation over the internation of the internation over the internation of the internation over the internation over the internation of the internation over the internation over the internation of the internation over the internation over the internation of the internation over the internation over the internation of the internation over the internation over the internation of the internation over the internation over the internation of the internation over the internation over the internation of the internation over the internation of the internation over the internation of the internation of the internation over the internation of the internation over the internation of the internation of the internation over the internation of the internation over the internation of the internation of the internation over the internation of the internation over the internation of the internation over the internation over the internation of the internation over the internation over the internation over the internation over the internati

Our errors and emissions insurance covering certain security and privacy durages, and claim expenses may not be sufficient to compounds for all labelity. Although we maintain liability insurance for liabilities incurred as a result of some executivy and privacy durages, we consent be earth in the our excessage will be adaptated for liabilities incurred as a result of some executive and privacy durages, we consent be earth in our excessage will be adaptated for liabilities incurred as a result of some executive and privacy durages and privac

Interruptions or performance performance performance and appending an execution of the sure technology and infrastructure may adversely officer are benines and appending transls.

The continual growth deposits a part on the ability of or craining and potential estimaters to access our applications are as position. We have experienced, and may in the future experience, disaptions, endages, and other performance problems due to a variety of factors, relateding infrastructure changes, recombination of two infrastructure changes, recombinations of two infrastructure changes in the continues of the continues and proposed problems within an assembly and the continues of the continues of

Moreover, our standard customer agreements include performance guarantees and service level standards that obligate us to provide credit or termination rights in 1 be creat of a significant disruption in our platform. To the cutter that our third-party service providers experience outages, or to the cutter we do not effectively address expectly constraint, upgrade our systems as needed, and continually develop our technology and network architecture to accommodate actual and anticipated changes in technology, our business and operating results may be adversely affected.

Our not of "spen networ" software could regarderly effect our shifty as effer our placeform and applications and subject on a possible delegation.

The registrations, reported are substantial sports of Carma, see" spen network that we, in some cases, have believed legation. Do not support that the contract of the registrations, make and modifiable, and in made resultable to the general public on an "a-a" and "and a substantial sports. One report that the contract of the con

We may take face claims alleging monompliance with open source letters or infiningenest or mappropriation of proprietary software. These claims could read in inligation, require no in particular a couldy lecense or require to in devote additional research and development resources to thange our advances, and with the water adjustment of the composed of the composed of our other task of the contraction of the composed of the co

We could also be adjust to usin by parties claiming ownership of what we believe to be egen source software. Engineers could be county for as to default, tow a suggiove effect on our opporation growth and financial conditional contracts and development removes to those to engineer and the county for a sea to default, tow a suggiove effect on our opporation and contract and contra

## We make a substantial partiest of the source code for Carma entitlede under the terms of an open source license, and accept contributions of molifications to that source code, each of which could segatively affect one shifty to offer one platform and applications and subject to to possible litigation.

To generate surgest platform philosophy, we make a substantial portion of the source code for Caron a stallable to the public on the "Critical" platform for no change, under the terms of the AGPT. An individual or entity with the appropriate behavioral and human reconsects may choose to use the spece source version of Carons to try to self-book the public may be used puring as species to the self-source to the spece source version of Carons to for commercial purpose and dentity compete with as for existence. We are nower at a few sources or commercial purpose and dentity compete with as for existence. We are nower at few sources contained to the contribution of the contribution

We accept modifications of the source code for Carros from contributes who ages to the terms of our contributes agreement. Our contributes agreement probles for assignment of joint executive jin the contributes, and a fector to my point rights of the contributes agreement. The contributes agreement probles for assignment of joint executive jin the comprising to the contributes, and a fector to my point rights of the or insuppreprint fine properties agree of the contributes agreed to the contributes agree to a point of the contributes agreed to the contributes agree to the contributes agreed to the contributes agree to the contributes agree to the contributes agreed to the contributes a

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We believe the minimizing and enhancing over branch and our experience are critical to an extending which the continuous and not one shifted by the state of the continuous and the state of the s

Furthermore, regarding publicity, whether or not justified, affiling to remain a continue of the control of the

We rely upon Austral Web Services to square certain supers of our service and any disreption of or interference with our use of Austral Web Services could impair our ability to deliver our platform and applications to our continuers, recalling in continuer disturbilisation, damage to our requirement, how of continuers and have to our business.

Assume Well-Service at MS, produced and are not not because.

Assume with Service at MS, produced and administrator platform for business operations, or what is commonly referred to as a cloud computing service. We have designed our authors and comparing referred to the services produced by ARS Currently, one cloud service inflamentation in men and ARS Green fine, we cannot easily resist than ARS operations to another cloud provides, to any designed or of interference with our seed ARS would impact our operations and not business would be adveraged as a contraction of the adverage as a c

We affile third-party data center bosting facilities operated by AWS, located in various sites within the states of Virginia and Otegon. For international costomers, we utilize third-party data center bosting facilities operated by AWS located in Dablin, Ireland, Germany, Sydney, Australia, Montreal, Canada and Singapore.

Our operation depond, in part, or ANN's follows to protect these facilities against damage or interruption from natural distincts, power or decommendations follows; calculated against a collision of the control of the control of the collision of the control of the collision of

We are dependent as the continued exhibitily of the internet and his/party computer and communications systems.

On a his/sy to provide our platform and applications to our continued depends on our his/sy to communicate with our continued though the public internet and third-party computer and communications systems. A severer disreption of one or more of those systems could impair our ability to proceed services which the product process our continues, then could impair our ability to proceed services and while procedure receives our continues, transfer as loss of continues and have not bossess and operating coulds.

Red or precisived errors, follows, or bug in our playine or applications could adversely affect our operating enable and provide prospects.

We pask updates to our plateins on a Enquant basis. Despite testing by us, errors, failures or bugs are set for final into a plateins or application and all their they are displayed to our customers. We have discovered and expect testing by us for plateins or applications and articipate or an extraport testing by the extraport testing and applications and articipate or the customer for the extraport testing and applications and articipate of our set of the errors, failures and larger all any and applications, has of competitive position, or claims by customers for bases sustained by them it such as event, we may be required, or may choose, for customer relations or other reasons, in expend additional resources in order to be for positions.

We implaned log facts and upgrades a part of our regular system minimizance, which may lead to system dorstime. Even if we are able to implement the log fixes and upgrades in a simily manner, any history of deficies or inaccurates in the data we collect for our continuous, or the loss, damage or inabstructural data cold or inflanced data could make use or ingration to be human, and continuous new picture and the approximation produced and the continuous of the production of the size of the production of the or in the continuous or interest and distinct or or man to an other and even production to an other productions produced in the inflanced and in the limitation of inhibity of one first new flowers of the production of t

For an adaptive to generational laws, regulation and wher legal obligations, particularly related to privacy, that practices and information serving, and any attent of previously privacy and information security are implicated uses in the U.S. and the other prinations where we effect on explosions. The legislative and regulatory functions of privacy and security issues would take a regular could be a reason as a construction for the forecastle from the privacy and information security are implicated uses in the U.S. and the other privacies where we effect on explosions. The legislative and regulatory functions of privacy and security issues would take in regular could be a reason as a construction of the forecastle from the Continuous of uses and supercontinuous discount and supercontinuous discount and supercontinuous discount and supercontinuous of the continuous of uses of the continuous of uses and supercontinuous discount and supercontin

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Our secons is depended, in part or an arbitility to print and ordpoor or proprising visionality. We do not not seen up pastern or or one part of the print of the

Although we cater into confidentially and invention assignment agreements with our employees and consultant and enter into confidentially agreements with the parties with whom we have integrize relationships and business alliances, no assurance can be given that these cust will be effective in consulting account and an internal are competions from independently developing technologies that are substantially equivalent or to are substantially assurance to an embers and distribution of our application of an embers and distribution of an application of an embers and distribution of an application of a true or an industrial distribution and are applicated from the application of a true or an industrial distribution and are applicated from the application of a substantially equivalent or to are substantially applicated or to are substantially applicated for the application of a substantially application of a substantially equivalent or to are substantially application of a substantially equivalent or to a substantial equivalent or to a substantial equivalent or to a substantially equivalent or to a substantial

We may be required to speed appointment resources to monitor and partiest our indicated property rights. Linguistom may be executary in the litters to enforce our indicated property rights and to protect our trade secords. Such hispation could be coulty, time consuming and distincting to management and could read in the impairment of book of perisons of our indicated appropriy Furthermore, our efforts to selective our indicated appropriy right. Years upon been set with deference, constructions and constructions and constructions and constructions of our indicated propriy right. Years up to prevaint in a previous the continues and advantage to the second and the cut interfer and advantage and the continues and advantage to the continues and advantage to the continues and advantage of the continue

For could fore liability, or our regunstion night be harmed, on a creately of the collision of our existence or now, the content in our platform on the data they stars on an average.

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Various U.S. fished institutes up up to us with except to a written extends to the first part of the companies of the production of the pr

Addinately, or consource could use one platform or application to store or process PII, including sensitive PII, without our knowledge of such storage or processing. In the creat the our yoisom experience a data security modest, or an individual or eatily accesses information without, or it can use of program administration, we could be subject to the access of program administration, we could be subject to the access of program administration, we could be subject to the access of program administration, we could be subject to the access of program administration, we could be subject to the access of program administration, we could be subject to the access of program administration and the access of program administration a

Parar acquisitions could florege are beatines and may divert management's attention and if assurcessful. Atom nor basiness.

We intend to expeatly realizing acquisition that could be material to we beatiness. To date, where only completed two acquisitions and our ability as an organization to successfully acquire and integrate technologies or businesses is supports and intended. Acquisitions involve many labeled and the contract and the contract and formation of the contract and formation of the contract florest the contract and formation of the contract and deposits to the contract, contracting contract, may expect us to change and deposits on the deposit on management or integrating the business, technologies, probable, presented or operations and operation or place and one adoptions on the deposit on management or integrating the business, technologies, probable, presented or operations and operation and the expectation of the expectation o

We may not necessal in addressing these or other risks or any other problems encountered in connection with the integration of any acquired business. The inability to integrate necessality the business, technologies, products, personnel or operations of any acquired business, or any significant delay is archerology integration, each larm our business and operating results.

Our shifty to ratio capital in the funer may be limited, and if we find to ratio capital when models, we creal by percented from growing.

Our business and oppositions may common resources frame than we entirement. While we believe our walk, such appearable, therefore mentalizable execution and cash from from oppositions will be sufficient to support our planed oppositions for at least the sea 12 months, so the form of the support of the support our planed oppositions for at least the sea 12 months, and the form of the support of the suppor

For any jo adaptive additional adaptions to collect and remits older to an effective term, and or any jo adaptive to the fielding for part and/s, which could have not believe.

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Change in tea low or regulations that are opplied abservely to as or see extension could increase the count of juncting management sufferor and abservely impact our hundres.

Now income, tales, use or when text leave, takines, rules, experience or endomescent could be received it any free. Any now text could abservely in literal denotes and interesting to the countries operations, and our business and framework performance. Further, civing to a low, states, rules, regulation are or demonscent could performance. Further, civing to a low, states, rules, regulation are demonscent only assigned asservely countries provided abservely to the Secret consideration performance in production or entrancine basis, as well as requires or not continents to pay defined at a month on any production or entrancine basis, as well as requires or or continents to pay defined at a month on any production or entrancine basis, as well as requires or or continents to pay defined at a month on the continents or continents to pay depend and production of the continents of the continents of the continents or production and production of the continents or continents are on paying and the continents of the continents or continents are one of the continents of the continents or continents are one of the continents of the continents or continents are one of the continents of the continents or continents are one of the continents or continents are one of the continents of the continents or continents are one of the continents or cont

The recently passed comprehensive tax reform hill could adversely effort are beatiness and function condition.

On December 22, 2011, Product Tump signed since here to replaciful not significant through review to be considered. The newly extended factors income to be rising as a constraint of the deduction for a requirement of the contract of the c

One shifty was not operating form to right fabore results incomes may be subject on Bindington.

As of December [2, 124], we had purposents price of the price of

## We are a multinational organization faced with increasingly complex tax issues in many jurisdictions, and we could be obligated to pay additional taxes in various jurisdictions.

As a militational organization, we are subject to transform in secretal principlections around the world with increasingly complex tax laws, the application of which can be uncertain. The amount of trans we pay in these jurisdictions could increase substantially as a result of changes in the applicable tax principle, included in certain principal principal organization, the administration for transfer in the principal prin

The Shaded to Development between south former has varous workshipting regimenests apply to use or an absolution or source that hencefor of the breast one or an absolution, any of which could advisoly afficie our operating south.

The transport to the form and self-lifting confines for training or an application of provinging preferences.

The transport of the self-lifting or an area of the lifting confines to the breast of the lifting or an application of the provinging or any training or an application or application

ske's of large blocks of our common stock including usles by our executor; officers, devents and significant metabolders, and
 there execute factors, schilding dranges in general common; including and most conditions and treats, as well as any natural diseases that may affect our operations.
 In addition, the stock markets have expectated extreme piece and where furtations that there affected and continue to affect the market prices of equity occurring or many including providers of cloud-board software. Sinck prices of many technology have floatistical in assume unreliable dispropriations to the quarting performance of those companies.

In the past, stockholders have instituted securities class action litigation following periods of market volatility. If we were to become involved in securities litigation, it could subject us to substantial costs, dover resources and the attention of management and harm our business.

Fater rails of shown by michabeler could cause our nicel price to define.

She of a substantial number of share of our common sixth the public market could occur at any time. If our stackholders site, or the market preceives that our stockholders intend to self, substantial amounts of our common sixth in the public market, the market price of our common sock on the face. We can substantial amounts of our common sixth in the public market, the market price of our common sock on the public market. We market to prote the care attack to prote the substantial amounts of our common sixth in the public market, the market price of our common sock on the public market.

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Describe 31, 2018, we had option estimating that of fully convoiced, would could in the issuance of 1,300,120 shares of common stock and BS31s estimating that, upon voiling, would could be the issuance of 1,300,250 shares of common stock record for future convoiced by the convoiced of future convoiced of future convoiced by the convoiced of future convoiced convoiced for future convoiced convoiced for future con

The concentration of our track ownership will fieldy final year shiftly in influence conputer matter, including the shifty in influence the nations of director decisions and other matters requiring includedless approved.

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If securities or industry analytic de ant publish recorred or reports about an including control of the process of the publish reports on the control of the process of the publish reports on the process of the publish reports on the process of the publish reports on the publish reports

If we are not common to develop affected instruction thereof accordance, or many and a relative contract plant in a relative contract he harmont.

The contract plant is a relative contract plant in the contract plant in

Investor perceptions of our company may suffer if material weaknesses are found, and this could cause a decline in the market price of our common stock. Inespective of compliance with Section 404, any failure of our internal control over financial reporting could harm our ingreation and reputation. If we are unable to implement these requirements effectively or efficiently, it could harm our operations, financial reporting, or financial results and could result in an adverse opinion on our internal control from our independent nepistered public accounting

A standard of an electrical configure of incorporation and annohal and rotated byless contain provision that could degrees the reading price of our common study by using to discovary, duly or provest a change of control of our company or changes in our managed and notated configure or common study by using to discovary, duly or provest a change of control of our company or changes in our managed control of our company or changes in our managed control of our company or changes in our managed control of control or control o

Additionally, we are subject to Section 200 of the Delaware General Cooperation Law, which generally possible to Delaware cooperation from engaging in any of a broad range of business combinations with any "interested" steechholder for a period of three years following the date on which the steechholder become as "interested" steechholder and which may discoverage, delay or percent a change of control of our company.

Any provision of our amended and restand certificate of incorporation, bylans or Delaware law that the effect of delaying or determing a change in combot could limit the opporatually for our mechanishes to receive a premium for their shares of our common stock, and could also affect the price that some invotion are willing to poy for our common such.

Our annabel and reminded configure of discompanient precision that the Count of Chancery of the State of Educaces is the exclusive forms for substantially all dispates between as and are modelabors, which exall faint are modelabors are modelabors, which exall faint are modelabors, which exall faint are modelabors, which exall faint are modelabors are modelabors, which exall faint are modelabors are modelabors, which exall faint are modelabors, which exall faint are modelabors, which exall faint are modelabors are modelabors, which exall faint are modelabors, which exall faint are modelabors, which exall faint are modelabors are modelabors, whin

Item 1B. Unresolve d Staff Comments.

None.

In a 2. Properties.

We lesse spece for our composite handquarton in Salt Lafe City, Usin parasset to leases that expece in February 2015 and Coulow 2017. We also lease upon on Change, Illinois, Feomory Conce, Usin, Soutie, Washington, and Philadelphia, Posseyhanin with leases that expece through 2019. We assume an extensional behavioration in Lesing, Configuration in Lesing, Configuration and Lesing, Con

lim 3. Lipi Precedige.

We are, all from time to time up the party to linguistic and subject to claims incides to the ordany course of business. As one provide continues, we may become party to an increasing number of linguistic matters and claims. The concess of linguistic matters and claims are concess of linguistic matters and claims. The concess of linguistic matters are concess of linguistic matters and claims. The concess of linguistic matters are concess of linguistic matters and claims are concess of linguistic matters and concess of linguistic matters are concess of linguistic matters and claims are concess of linguistic matters and concess of linguistic matters are concess of linguistic matters ar

Item 4. Mine Safety Disclosures.
Not applicable.

PART II

Itan S. Market for Registrate's Common Equity, Behind Stockholder Matters and Issuer Purchases of Equity Securities.

Our common mode is studied on the New York Stock Enchange under the symbol "DSST"

Biolators

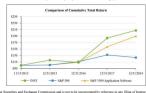
Hadars

As of February 12, 2019, there were approximately 59 hidden of record for or common stock. The actual number of stockholden is genere than this number of record holden and includes southholden who are beneficial rowners but whose charges are held in street name by believe and extremely

where the control feeling of a market of factors, including our control, explored and explored project of the control of factors and explored project of factors a

Autor Corps.

The diluting goals compares for performance of our common mock for the proof substants with the performance of the SAP 200 and the SAP 200 Application Software balos. This graph assures an investment of \$100 at the close of market on November 13, 2015 in each of mon mock, the SAP 200 and the SAP 200 Application Software balos. This graph assures an investment of \$100 at the close of market on November 13, 2015 in each of mon mock, the SAP 200 and the SAP 200 Application Software balos. This graph assures an investment of \$100 at the close of market on November 13, 2015 in each of mon mock, the SAP 200 and the SAP 200 Application Software balos. This graph assures as investment of \$100 at the close of market on November 13, 2015 in each of mon mock, the SAP 200 and the SAP 200 Application Software balos. This graph assures as investment of \$100 at the close of market on November 13, 2015 in each of mon mock, the SAP 200 and the SAP 200 Application Software balos. This graph assures as investment of \$100 at the close of market on November 13, 2015 in each of mon mock, the SAP 200 and the SAP 200 Application Software balos. This graph assures as investment of \$100 at the close of market on November 13, 2015 in each of mon mock, the SAP 200 and the



This information under "Stock Performance Graph" is not deemed filed with the Securities and Exchange Commission and is not to be incorporated by reference in any filing of Instructure, Inc. under the Securities Act of 1933, as amended, or the Securities Exchange Act of 1934, whether made before or after the date of this Annual Report on Form 10-K and irrespective of any general incorporation language in those filings.

SILICID CONSOLIDATIO PRANCIAL DATA

You should read the selected consolidated funecial data below in conjunction with "Management's Deceasion and Analysis of Funerial Condition and Results of Operations" and the consolidated funecial attenuents, related notes and other funecial information included electric in this Annual Expert on From 18-K. The relevance consolidated funecial data notes in section are not introduct to report for non-indicated funecial attenuents and requisited in their enterty by the consolidated funecial attenuents and related notes included electron in the Annual Expert on From 18-K.

The following selected consolidated automates of operations data for the years ended December 31, 2018, 2017 and 2016 and the consolidated behaves short data as of December 31, 2018 and 2017 how been derived from our audited consolidated districtions included disclosers in this Assaul Report on From 180. The consolidated automates of experiences date for the years ended December 31, 2018 and 2018 date of consolidated behaves the date of the consolidated distriction of the consolidated automates or included in miles. The consolidated intervent of the consolidated automates or included in miles. The consolidated automates or included in miles and the consolidated automates or included in miles. The consolidated intervent of the consolidated interve

		Year Ended December 31, 2615 N17 9-16. **2015					
	2018	2015		*As Adjusted	**2015	**2014	
			*As Adjusted	'As Aqueted (in theseands, except per share data			
Consolidated Statements of Operations Data:							
Revenue:							
Subscription and support	S	188,501	\$ 144,108	S 100,270	\$ 62,463	\$ 38,093	
Professional services and other		21,043	16,867	12,347	10,730	6,259	
Total revenue		209,544	160,975	112,617	73,193	44,352	
Cost of revenue:							
Subscription and support (1)(2)(3)		46,706	34,351	24,252	17,682	12,131	
Professional services and other (1)		15,137	12,211	8,750	6,391	2,982	
Total cost of revenue		61,843	46,562	33,002	24,073	15,113	
iross profit		147,701	114,413	79,615	49,120	29,239	
Operating expenses:							
Sales and marketing (1)(2)(3)		97,481	78,726	65,907	53,459	35,390	
Research and development (1)(2)(3)		59,391	48,293	35,973	24,151	21,290	
General and administrative (1)(2)		35,602	31,196	25,542	23,482	11,268	
Total operating expenses		192,474	158,215	127,422	101,092	67,948	
loss from operations	·	(44,773)	(43,802)	(47,807)	(51,972)	(38,709)	
Other income (expense):		_					
Interest income		2,413	361	352	39	32	
Interest expense		(68)	(55)	(87)	(74)	(136)	
Other income (expense), net		(698)	257	(343)	(854)	(2,557)	
Total other income (expense), net		1,647	563	(78)	(889)	(2,661)	
oss before income tax benefit (expense)	·	(43,126)	(43,239)	(47,885)	(52,861)	(41,370)	
ncome tax benefit (expense)		(339)	155	(317)	(117)	(57)	
ért loss	S	(43,465)	\$ (43,084)	S (48,202)	s (52,978)	S (41,427	

			2015	26	17	···· III	od December 31, 2016	**20	15		**2914
				*As A	ligsted	*.44	Adjusted				
Peemed dividends to investors				c	(in th	ошчавач, о	acopt per share dat	ta)	(632)		
et loss attributable to common	studbaldes	-	(43,46)		(43,084) S		(48.202)	-	(53,610)	-	(41,
et loss per common share attrib			(40,40		(40,004) a		(40,202)		(20,010)		(41
stockholders, basic and diluted			(1.2	7) 6	(1.47) S		(1.73)		(6.07)	e	
Veighted-average common share			(1.4		(1.51) 4		(1.73)		(0.07)		
computing basic and diluted no											
common share attributable to c											
stockholders			34,24		29,401		27,838		8,838		5
				-						_	_
<ol> <li>Includes stock-base</li> </ol>	ed compensation as follows:										
					Year Ended Decembe	31,			_		
		_	2015	2017	2016		2015	2014	-		
					(in thousands)						
	Cost of revenue:										
	Subscription and support	s	1,235	s 762	S 48	8 8	177				
	Professional services and other		975	596	47		166	3	9		
	Sales and marketing		6,022	4,331	3,03	)	1,228	2,87	7		
	Research and development		8,338	6,023	3,86		1,403	3,97	1		
	General and administrative		6,177	3,958	2,82	)	6,262	1,05	3		
	Total stock-based compensation		22.747	\$ 15,670	S 10.67	S	9.236	\$ 8.19	8		
) Includes payroll tax	rotan stock-concuc compensation  K expense on secondary stock purchase transactions or the reversal of such expense due	to the reduction of the esti			Year Ended December	. 11					
) Includes payroll tax					Year Ended December 2016	я	2015	2014	-		
2) Includes payroll tox			mated liability a		2016	н	2015	2014			
lncludes payroll tox	c expense on secondary stock purchase transactions or the reversal of such expense due		mated liability a			н	2015	2014			
) Includes payvoll tax	x expense on secondary stock purchase transactions or the reversal of such expense due  Cost of revenue:	=	mated liability a	2917	(in thousands)						
) Includes payroll tax	expense on secondary stock purchase transactions or the reversal of such expense due  Cost of revenue:  Subscription and support		mated liability a	2917	(in thousands)	- S	2015	s 3			
) Includes payroll tax	expense on secondary stock purchase transactions or the reversal of such expense due  Cost of reversas:  Subscription and support  Professional services and other	=	mated liability a	2017 \$ -	(in thousands)	- s		s 3	-		
f) Includes payred tax	e expense on secondary stock purchase transactions or the reversal of such expense due  Cost of revenue:  Such copion and support  Such and marketing  Sules and marketing	=	2018 (49) - (430)	3017 S - (256)	2016 (in thousands) S	- \$ - 7)	-	\$ 3 46	1		
f) Includes payroll too	exposes on secondary stock purchase transactions or the reversal of such exposes the  Cost of sevenue.  Subscription and support  Professional services and other  Executed and development  Executed and development	=	2018 (49) - (430) (616)	3817 S - (256) (256)	(in thousands)  S  (5	- s - - - - - -		\$ 3 46 65	- 1 3		
l) Includes payred tax	c exposes on secondary stock paraduse transactions or the reversal of such exposes due  Cost of eversuse Subscription and support Performants reversus and other Cost of eversuses and other Cost of e	=	(49) - (430) (616) (130)	\$ - (256) (256) (22)	2016 (in thousands) \$ (5 (5 (10	- s - 7)	1,327	\$ 3 46 65 8	- 1 3		
	copous as secondary sited purchase transactions or the reversal of such expense the  Cost of revenue Salvacytion and support Professional services and other Salvacytion and support The salvacytion such as the salvacytion and support The salvacytion seems are salvacytion.	=	2018 (49) - (430) (616)	3817 S - (256) (256)	2016 (in thousands) \$ (5 (5 (10	- s - 7)		\$ 3 46 65	- 1 3		
	c exposes on secondary stock paraduse transactions or the reversal of such exposes due  Cost of eversuse Subscription and support Performants reversus and other Cost of eversuses and other Cost of e	=	(49) - (430) (616) (130)	\$ - (256) (256) (22)	2016 (in thousands) \$ (5 (5 (10	- s - 7)	1,327	\$ 3 46 65 8	- 1 3		
	copous as secondary sited purchase transactions or the reversal of such expense the  Cost of revenue Salvacytion and support Professional services and other Salvacytion and support The salvacytion such as the salvacytion and support The salvacytion seems are salvacytion.	=	(49) - (430) (616) (130)	\$ - (256) (226) (22) \$ (534)	2016 (in thousands) S (5 (5) (10 S (21)	- S -77777777777777777777777777777777777	1,327	\$ 3 46 65 8	- 1 3		
	copous as secondary sited purchase transactions or the reversal of such expense the  Cost of revenue Salvacytion and support Professional services and other Salvacytion and support The salvacytion such as the salvacytion and support The salvacytion seems are salvacytion.	s s	(49) - (430) (616) (130)	\$ - (256) (226) (22) \$ (534)	2016 (in thousands) \$ (5 (5 (10	- S -77777777777777777777777777777777777	1,327	\$ 3 46 65 8	- 1 3		
	copous as secondary sited purchase transactions or the reversal of such expense the  Cost of revenue Salvacytion and support Professional services and other Salvacytion and support The salvacytion such as the salvacytion and support The salvacytion seems are salvacytion.	s s	(49) (49) (430) (616) (130) (1,225)	\$ - (26) (25) (25) (22) \$ (534)	2016 (in thousands)  \$ (5) (5) (10) \$ (21)  Year Ended December 2016	- S -77777777777777777777777777777777777	1,327 1,327	\$ 3 46 65 8 \$ 1,22	- 1 3		
	copous as secondary sited purchase transactions or the reversal of such expense the  Cost of coronae  Salescaption and apposit  Professional reviews and other  Salescaption and apposit  Salescaption and apposit  Salescaption and apposit  Salescaption  General and administration  General and administration  Total purplus accepted  Total purplus accepted  on of acquaintum related integribles as follows	s s	(49) (49) (430) (616) (130) (1,225)	\$ - (26) (25) (25) (22) \$ (534)	2016   (in thousands)   S   (5   (5   (10   S   (21	- S -77777777777777777777777777777777777	1,327 1,327	\$ 3 46 65 8 \$ 1,22	- 1 3		
	copous as secondary sited purchase transactions or the reversal of such expense the  Cost of revenue Salvacytion and support Professional services and other Salvacytion and support The salvacytion such as the salvacytion and support The salvacytion seems are salvacytion.	s s	(49) (49) (430) (616) (130) (1,225)	\$ - (256) (256) (228) (534)	2016 (in thomasub)  \$ (5) (5) (10) \$ (21)  Year Ended December 2016 (in thereanth)	- S -77777777777777777777777777777777777	1,327 1,327	\$ 3 46 65 8 \$ 1,22	- 1 3		
	copions as secondary sited purchase transactions or the reversal of such expense the  Cost of revenue Subscription and support Preference and support Preference and support Cost and administrative Cost and administrative Cost and administrative Cost of cost and cost	\$ \$	(49) (430) (616) (1325)	\$ - (256) (256) (25) (534)	2016 (in thomasub)  \$ (5) (5) (10) \$ (21)  Year Ended December 2016 (in thereanth)	- S - 77) 77) 33) 5 - 51,	1,327 1,327 2015	\$ 3 46 65 8 \$ 1,22	- 1 3		
	copiose as secondary sited purchase transactions or the reversal of such expense the  Cost of riversace Salescription and support Britishman terrieses and other Sales and machinering General and administrative General and administrative Tatley purplish exception out of acquaintus related immaghibe as follows:  Cost of coverage	\$ \$	(49) (430) (616) (130) (1,225)	\$ - (256) (256) (22) \$ (534)	2016 (in thomasub)  \$ (5) (5) (10) \$ (21)  Year Ended December 2016 (in thereanth)	- S - 77) 77) 33) 5 - 51,	1,327 1,327 2015	\$ 3 46 65 8 \$ 1,22	- 1 3		
	copiose as secondary sited purchase transactions or the reversal of such expense the Cost of evenue Subscription and support Preliminaria traverse and other Preliminaria traverse and other Research and development General and administrative General and Amplitude and Subscription and support	\$ \$	(49) (430) (616) (1325)	\$ - (256) (256) (25) (534)	2016 (in thomasub)  \$ (5) (5) (10) \$ (21)  Year Ended December 2016 (in thereanth)	- S	1,327 1,327 2015	\$ 3 46 65 8 \$ 1,22	- 1 3		
	copiose as secondary sited purchase transactions or the reversal of such expense the  Cost of riversace Salescription and support Britishman terrieses and other Sales and machinering General and administrative General and administrative Tatley purplish exception out of acquaintus related immaghibe as follows:  Cost of coverage	\$ \$	(49) (430) (616) (130) (1,225)	\$ - (256) (256) (22) \$ (534)	2016 (in thousands) \$ (5) (5) (10) \$ (21)  Year Ended December 2016 (in thousands) \$	- S	1,327 1,327 2015	\$ 3 46 65 8 \$ 1,22	- 1 3		
	copous as secondary sited purchase transactions or the reversal of such expense the  Cost of revenue Subscription and support Professional services and other Subscription and support General and administrative Subscription and support Subscription and subscription and support Subsc	\$ \$	(49) (430) (616) (130) (1,225) 1,339 1,158	\$ - (256) (256) (256) (256) (257) (2	2016 (in thousands) \$ (5) (5) (10) \$ (21)  Year Ended December 2016 (in thousands) \$	- S S S S S S S S	1,327 1,327 2015	\$ 3 46 65 8 \$ 1,22	- 1 3		
	Copies in secondary sitch purchase transactions or the recental of such expose due  Cost of evenue.  Subscription and appear  Took proposition are expose  or a capatition sected as faithers.  Cost of evenue.  Cos	\$ \$	(49) (430) (616) (130) (1,225)	\$ - (256) (226) (257) \$ (534)	2016 (In thousands) \$ (S (5) (10) \$ (21)  Year Ended December 2016 (in thewands) \$	- S S S S S S S S	1,327 1,327 2015	\$ 3 46 65 8 \$ 1,22	- 1 3		

	As of December 31,							
	2018 (1)		2017	2016	**2015		=	**2014
			*As Adjusted	*As Adjusted (in thousands)				
Consolidated Balance Sheet Data:								
Cash and cash equivalents	S 94,320	S	35,693	\$ 44,539	S	90,471	s	43,915
Working capital, excluding deferred revenue	197,908		79,169	90,728		92,638		47,440
Total assets	273,997		156,623	125,930		121,060		67,026
Deferred revenue	120,670		101,662	74,636		52,325		31,954
Total liabilities	145,559		129,679	100,117		75,441		53,568
Redeemable convertible preferred stock	_		_	_		_		88,989
Total stockholders' equity (deficit)	128,438		26,944	25,813		45,619		(75,531)

			Year Ended December 31,		
	2018	2017	2916	**2005	**2914
		"Ax Adjusted	"As Adjusted		
			(unundited)		
			(in thousands)		
Other Financial Data:					
Non-GAAP Operating Loss (1)	(21,898)	(28,495)	(37,341)	(41,400)	(29,280)
Free Cash Flow (2)	(10,946)	(37,113)	(29,287)	(25,983)	(22,798)
(1) We defer you CAAR counties bet as constring but before stock based comparation, according to several and expected of	and the arrange of consideration and an expension	o amostication of committies	and the related interestibles and also	man in this value of continue	ar liability

We believe non-GAAP operating how and first cash then provide structures and other users of our financial information continuous; and comparability with our past financial performance and facilitates period-a-posted comparisons of operations and lapidaty. We believe non-financial period of the p

We companie for force limitions by providing increases and earlier or for familiarity in the child CAAP femiliar instance, loss than operation and reconciliations of the child CAAP operating has to the child CAAP femiliar instance, loss than operation and reconciliations of the child CAAP femiliar instance, loss than operation and reconciliations of the child CAAP femiliar instance and loss than one operation and reconciliations of the child CAAP femiliar instance and loss to be under the child CAAP femiliarity in the child child femiliarity in the chi

	=	2018	-	2017 Ax Adjusted	-	aded December 31. 2016 As Adjusted (anasolited) a theoroads)	-	**2415	-	**2014
.oss from operations	S	(44,773)	S	(43,802)	s	(47,807)	s	(51,972)	s	(38,709
Stock-based compensation		22,747		15,670		10,674		9,236		8,198
ayroll tax expense on secondary stock purchase transactions		_		_		_		1,327		1,225
beversal of payroll tax expense on secondary stock purchase transactions		(1,225)		(534)		(217)		_		_
Amortization of acquisition related intangibles		2,497		171		9		9		6
hange in fair value of contingent liability		(1,144)		_		_		_		_
ion-GAAP operating loss	s	(21.898)	S	(28.495)	s	(37,341)	s	(41,400)	s	(29,280
The following table provides a reconciliation of net cash provided by operating activities to free cash flow:	_	2015		2017		ded December 31. 2016		2015		2014
The belowing table provides a reconcitation of art cush provided by opening activates in the cash flow:	_	2015		2017	-	2016 snaudited)		2015		2014
	<u> </u>	2015	s	2017	-	2016	s	2015	s	
ist cash provided by (used in) operating activities	s		s		-	2016 enaudited) (thousands)	s		s	(20,395
	s	98	s	(21,129)	-	2016 snaudted) stheaunds) (21,608)	s	(19,351)	s	2014 (20,395 2,440 37
Not cash provided by (seed in) operating activities on profusion of profusion of propriese and intergoble seets	s	98 11,132	s	(21,129) 16,060	-	2016 mandred) (thousands) (21,608) 7,742	s	(19,351) 6,696	s	(20,39) 2,440 37
ties unds provided by (most int opposting melitries).  one produces for figurety and engagement and attaugable assents  for grownout for missionary for propryant appropriated  for proceedable on dispostage of propriated appropriated.	s s	98 11,132 88 (10,946)	S S U") No.	(21,129) 16,060 76 (37,113)	S S	2016 insudited) theosands) (21,608) 7,742 63 (29,287)	S S	(19,351) 6,696 64 (25,983)	S S Note 1	(20,395 2,440 37 (22,798
tiet cash prosided by (used as) operating schritties cas parchases of properly and equipment and unamplife assets that procedule find indiquals of properly and equipment tree cash flow  The summary consolidated financial data as of and for the years ended December 31, 2011, and 2016 or fleets the adoption of Account	S S sting Standa	98 11,132 88 (10,946) rds Update ("AS	S S U") No.	(21,129) 16,060 76 (37,113)	S S	2016 insudited) theosands) (21,608) 7,742 63 (29,287)	S S	(19,351) 6,696 64 (25,983)	S Note 1	(20,395 2,440 37 (22,798

ham 3. Managomet i Discussion and Asolysis of Financial Condition and Breads of Operations.

To admit or all the financial controls and admit and admit and the financial controls and the related assets to these admits assets and the related assets to their admits asset to their admits asset to their admits asset to the related of the operation. This discussion contains forward-bedoing nanowem that involve risk and uncertainties. As a result of non-financial controls are admits a result of the related financial controls and uncertainties. As a result of non-financial controls are admits a result of the related financial controls.

[20]

Instruction provides inserted or applications for farming, assessment and performance management. We made organizations worldwide to develop, deliver, manage and track organing academic and employee development programs. Our platform combines powerful, elegant and easy-to-see functionality with the reliability, excessly, exability and arguent required by our causmon.

We effor our platform funday is a Software-to-Service, or Sack business model reduces the cost, complexity and desergence associated to implementation and purglact of our persons and reduces the cost, complexity and desergence associated to implementation and purglact or four persons of some and purglact or four persons of some and purglact or four persons of some associated to implementation and purglact or four persons of some associated to implementation and purglact or four persons of some associated to implementation and purglact or four persons of some associated to implementation and purglact or four persons of some associated to implementation and purglact or four persons of some associated to implementation and purglact or four persons of some associated to implementation and purglact or four persons of some associated to implementation and purglact or four persons of some associated to implementation and purglact or four persons of some associated to implementation and purglact or four persons of the source associated to implementation and purglact or four persons of the source and purglact or four persons of the source associated to implementation and purglact or four persons of the source and persons or four persons of the source and persons of t

We were founded as 2001, and an 2001, we hundred forms, with the goal to make teaching and humang easier, beliably, we forecast on the U.S. education market, targeting colleges and animentation. In 2002, we expended our from to include the K-12 market in the United States.
We special an intermediate handquartees in clusters, fingular is how the first and been entired to a finite form to be first. So distants as water. We have the second of the contraction of the co

We sell our applications and services through a direct take force. Our sales organization includes technical sales engineers who serve as expects in the technical imposts of our applications and customer implementations. Many of our sales efforts require as to respond to repared for proposals, particularly in the higher education space and to a leaser extent in K-12, and to a minimal extent in the corporate market. As we gove internationally, we may use reseller partnerships as needed to pearetnet certain new markets.

As of December 31, 2011, we have grown in sorre more than 4500 customers, representing colleges, underwrites, K-12 whood obtained, and companies in more than 70 custries. Our customers range from a single school to large composition and authorise institutions and accordingly interesting the contracting colleges and the contracting colleges are contracting colleges. The contracting colleges are colleges are contracting colleges are contracting colleges are colleges

Our subscription for includes the set of our platform and our technical support and a breaches of our the number of ours. We also generate revenue from training, implementation services and other types of professional services. We have experienced not revenue retention rates of over 10% at each of Executive 31, 2016, 2017 and 2016. To 2018, 2017 and 2016, our revenue was \$250.5 million, \$451.0 million and \$112.5 million, respectively, representing year-over-your growth of 50% and 40% for 2018, 2017 and 2016, our revenue was \$250.5 million, \$451.0 million and \$112.5 million, respectively, representing year-over-your growth of 50% and 40% for 2018, 2017 and 2016, our revenue was \$250.5 million, \$451.0 million and \$451.2 million reports only as a second of the contract of th

We continue to most in our slow and marketing oppositation to three additional revenue and apport the growth of our contomer base. Any investments we make in our sales and marketing organization will occur in advance of experiencing any benefits from such mercinents, to it may be difficult for to to determine if we are efficiently allocating our revenues in those teams. We fain to continue to expend ado and marketing to grow our customer base and mercase sales to existing customers. This expension is expected from the adding sales personnel and expanding controllers and the expension of the expension is expected from the adding sales personnel and expanding controllers and the expension is expected from the adding sales personnel and expanding controllers and the expension is expected from the adding sales personnel and expanding controllers.

We intend to expand and continue to invent in our international sales and marketing organization, which we believe will be an important factor in our continued growth. As we grow internationally, we may use rescribe posteroshaps as needed to posturate new markets. In 2018, 2019
7 and 2018, 1978, 1578 and 978, respectively, of our revenue was derived from on toick the United States. Our international operations are relatively new and we have limited experience operating in international market, which increases the risk that our international expansion efforts may not research executed.

We have aggressively smooted, and intend to continue to invest, in developing technology to support our growth. We expect our research and development express to increase as we expend bankeoust. While we invest heavily in research and development, we have also built as fine for answering the approach for approach to be learning management system as a learning platform flowere, our investments in research and development may result in enhancements or new applications that may not address market adoption, are more expensive to develop than such, may lake length passent revenue are no general teas in revenue than a second to a tree and the adoption, are more expensive to develop than such, may lake length passent revenue are no general teas in revenue that the adoption is a second to a seco

Development of Marko and Complementary Products or Services
As our more developed markets, such as kiple education, continue to mature, our opportunities for future growth may be increasingly dependent on less developed markets, such as X-12 or cooperate, or on new or complementary products or services.

We calculate our net revenue retention rate by dividing the total revenue obtained from a particular contoner in a given month by the total revenue from the customer from the unne month in the immediately preceding year. This calculation contoners all changes in revenue for the designated contoner, which includes contoner internations, changes in quantities of search, changes in previous for place and of myderation more length and the contoner contoners in the or contrict contoners to our entire contoners to our enter contoners to our and a revenue of the contoners to our extension and the same products more formers and our district our enter contoners to our and our extension and the same products more formers and the other contrict contoners to our extension and the same was our 100% a cand to find 1,500, 237 rf and 2018.

Reciteg

Backley generate fidure non-carefuldic amounts to be invoiced under our agreement. We here gravably joyed multiply your subscription contracts for our applications. For these agreements, it is common to review, milital amount of contract inping followed by pulsaquent probled invoice, promise problem of the problem of the contract interpretation of the problem of the contract interpretation of the problem of the contract interpretation of the problem of the p

Focus on First Cash Flave

We define free cash for we and cash provided by (used in) operating activities loss purchases of properly and equipment and attaughble useds, set of proceeds from disposals of property and equipment. We consider foce cash flow to be an important measure that we are focused on two beautiful forms to be an important measure that we are focused on the consideration of the cash flow, see the section titled "Selected Consolidated Francial Distan-Non-GAAD Francial Measures."

Financial Operations Overview

Armset

We genome revenue primarily from two main sources (1) subscription and appear revenue, which is comprised of Sand See from existences accessing one learning management systems and from customers purchasing additional support beyond the standard support that is included in the basic Sand See, and (2) related purfociousal services revenue, which is comprised of training, implementations services and other types of professional services.

Subscription revenue is derived from customers using our cloud-based learning platform and is driven primarily by the number of customers, the number of users at each customer, the price of our applications and reserval rates. Support revenue is derived from customers purchasing additional appear its possible astundard appear that is included in the basic Stade for Our contracts typically vary in length between one and five years. Subscriptions and support are non-curveible and are billed in advance on an annual basis. All subscription and support for billed are initially recorded in advanced and the revenue and recognition of the contract of the contract of the recognition of the contract of the recognition of the recognitio

Professional services and other revenue are derived primarily from implementation, taining, and other consulting fees, implementation services reluches training and consulting generics that generally lake anywhere from 30 to 50 days to complete depending on customer-side consultations of microbia. It includes regularly schedule and highly-seched activities to ensure consumers propers toward better alleling on explanations. Most of fines intensities to place over the phone and flowed to the use of with meeting excludings; implementations services are recognized over time as the services are removal, using or inferth-responding or meeting flowed implementations services as on back the meeting flowed resident perfect and to the remaining ofference of deplots.

We include training with every implementation and offer additional training for a fee. The training offered is focused on creating confidence among users so they can be successful with our applications. Most training is performed remotely using web meeting technology: Because we have determined that trainings are distinct, we record training revenue upon the delivery of the training. Subscription training was introduced in 2016 and is recognited ratably in the same numer as subscription and support revenue described above.

In addition to our implementation and training offerings, we provide consulting services for custom application development, integrations, contact services and change remangement containing. These services are architectured to boost customer adoption of our applications and to drive usage of futures unapple to the contrast containing to an extension. We have determined under those services are desire, received to the house in part method. The beautiful provides of contrast and provides are desired, and an effective agreeful deliberate on the original provides are desired, and an effective agreeful deliberate or received as the part of the contrast and are deliberated as a service of the contrast and are deliberate

Cost of subscription and support revenue consists primarily of the costs of our managed hosting provider and other third-party service providers, employee-edited costs including payrell, benefits and stock-based compensation expense for our operations and customer support teams, amerization of capitalized software development costs and acquired technology, and allocated overhead costs, which we define as rest, facilities and costs related to information technology, or IT.

Operating Expenses

Allow and Marketing Schools and anticities expense content presently of presented cont of our situs and anticities groups content presently of present content for a situs and anticities groups content presently of present content for a situs and anticities groups content present for a situation of the situat

Research and Development Research and development expenses consist primarily of personnel costs of our development taxm, including payroll, benefits and nixel-bessed compressation regenee and allocated overhead costs. We capitalize earths software development costs that are attribubles to developing new applications, features and adulty incremental functionality to our platform and marries and not sociol of subscription revenue over the crimitated life of the new application or necessationality, which is generally freezy year. We expect research and evolutional revenue to contract and adulty incremental functionality, which is generally freezy year. We expect research and evolutional revenue to the contract and the adults are a contract in terms of the formation of the contract and the adults are a contract in terms of the contract processes.

General and Administrative General and administrative expenses consist of personned costs and exhaled expenses for exacutive, finance, legal, human resources, recording, employee-edited information technology, administrative personned, including payorill, benefits and administrative expenses of increase on an abministrative expenses will necrose on an abministrative capenes will necrose on a manufacture capenes will necrose on abministrative capenes will necrose on abministrative capenes will necrose on abminis

# Other Income (Exposes) Obtained (Exposes) Obtained

Interior For Expert

We see subject to memor trans in the United States and foreign jurisdictions in which we do business. These foreign jurisdictions have naturally tax uses different from those in the United States. Accordingly, our effective tax cases will vay depending on the relative properties of foreign U.S. names and depending in tax learns, become tax expense consists primarily of state insome tax on the United States and recent teas in certain foreign jurisdictions in which we conduct business.

Reads of Operations
The distincting shales on face creates consolidated financial data in delifine amounts and as a precentage of total revenue. Prior period algorithments have been made as a result of the adoption of Topic 606, see factore 1 in the Notes to Consolidated Financial Statements for a sensor of adoptions to the consolidated of the adoption of Topic 606, see factore 1 in the Notes to Consolidated Financial Statements for a sensor of adoptions to the consolidated financial statements for a sensor of adoptions to the adoption of Topic 606, see factore 1 in the Notes to Consolidated Financial Statements for a sensor of adoption of Topic 606, see factore 2 in the Notes to Consolidated Financial Statements for a sensor of adoption of Topic 606, see factore 2 in the Notes to Consolidated Financial Statements for a sensor of adoption of Topic 606, see factore 2 in the Notes to Consolidated Financial Statements for a sensor of adoption of Topic 606, see factore 2 in the Notes to Consolidated Financial Statements for a sensor of adoption of Topic 606, see factore 2 in the Notes to Consolidated Financial Statements for a sensor of adoption of Topic 606, see factore 2 in the Notes to Consolidated Financial Statements for a sensor of adoption of Topic 606, see factore 2 in the Notes to Consolidated Financial Statements for a sensor of adoption of Topic 606, see factore 2 in the Notes to Consolidated Financial Statements for a sensor of adoption of Topic 606, see factore 2 in the Notes to Consolidated Financial Statements for a sensor of the Notes to Consolidated Financial Statements for a sensor of the Notes to Consolidated Financial Statements for a sensor of the Notes to Consolidated Financial Statements for a sensor of the Notes to Consolidated Financial Statements for a sensor of the Notes to Consolidated Financial Statements for a sensor of the Notes to Consolidated Financial Statements for a sensor of the Notes to Consolidated Financial Statements for a sensor of the Notes to Consolidated Financial Statem

		2918	2017	2016
			"As Adjusted (in thousands)	*As Adjusted
rioc:				
labscription and support	s	188,501 \$	144,108	\$ 100,
refessional services and other		21,043	16,867	12,
Total revenue		209,544	160,975	112
of revenue:				
abscription and support		46,706	34,351	24,
rofessional services and other		15,137	12,211	8.
Total cost of revenue		61,843	46,562	33
s profit		147,701	114,413	75
ating expenses:				
ales and marketing		97,481	78,726	65
Research and development		59,391	48,293	3.5
ieneral and administrative		35,602	31,196	2:
Total operating expenses		192,474	158,215	127
from operations		(44,773)	(43,802)	(4)
income (expense):				
terest income		2,413	361	
terest expense		(68)	(55)	
her income (expense), not		(698)	257	
Total other income (expense), net		1,647	563	·
efore income tax benefit (expense)		(43,126)	(43,239)	(47
e tax benefit (expense)		(339)	155	
		(43,465) \$	(43,084)	S (45

	2018	2017	2016
		"As Adjusted (as a percentage of total revenue)	*As Adjusted
tevenue:			
Subscription and support	90%	90%	891
Professional services and other	10	10	11
Total revenue	100	100	100
Cost of revenue:			
Subscription and support	22	21	22
Professional services and other	7	8	8
Total cost of revenue	29	29	30
Gross profit	71	71	70
Operating expenses:	·		
Sales and marketing	47	49	59
Research and development	28	30	32
General and administrative	17		23
Total operating expenses	92	98	114
Loss from operations	(21)	(27)	(44)
Other income (expense):	·		
Interest income	1	0	0
Interest expense	(0)	(0)	(0)
Other income (expense), net	(0)	0	(0)
Total other income, net	1	0	0
Loss before income tax benefit (expense)	(20)	(27)	(44)
Income tax benefit (expense)	(0)	0	(0)
Net loss	(20)%	(27)%	(44)5

Year Ended December 31, 2018 Compared to the Year Ended December 31, 2017

Revenue

Cost of Revenue and Gross Ma rgin

Cost of Revenue and Gross Ma rgin							
		Year En Decembe				Clany	
		2018		2017		Amount	5
				*Ax Adjusted (dollars in th	ouvands)		
Cost of revenue:							
Subscription and support	S	46,706	s	34,351	S	12,355	36%
Professional services and other		15,137		12,211		2,926	24
Total cost of revenue	S	61,843	S	46,562	S	15,281	33%
Gross margin percentage:							
Subscription and support		75%		76%			
Professional services and other		28		28			
Total gross margin		70%		71%			

Tail out of revenue necessed \$15 million for the year ended December 31, 2011 principly due to an increase in employmendate costs, with hosting costs and amendation of developed technology.

Subscience and appear cost of crosses between \$12.5 million for the year ended December 31, 2011 principly due to an increase in employmendate costs, completely exceed to the contract in end-to-depend and position of a position of



Research and Development

	Year Eac December	led	Channe		
20		2007	 Amount	- %	-
		(dol			-

59.8 million as we continue in grow on engineering eng

	cer Luded ecember 31,	Char	nge
2015	2617	Amount	%
		in thousands)	

General and administrative expenses increased \$4.4 million for the year ended Doctorbee 13, 2011 primarily due to an excess in employmentation and trees of first by discusses on the content of far while of the content in the content of far while of the content in the content of far while of the content in the content of far while of the content in the content of far while of the content in the content of far while of the content in the content of far while of the content in the content of far while of the content in the content of far while of the content in the content of far while of the content in the content of far while of the content in the content of far while of the content in the content of far while of the content in the content of far while of the content in the content of far while of the content in the content of far while of the content in the content of far while of the content in the content of the content of far while of the content in the content of far while of the content in the content of t

Other Income

	Year E	nded					
	2018		2607	Ame	uat	%	
			(dollars in t	beavands)			
S	1,647	S	563	S	1,084	193%	
	s		2018	2015 2017 (dollary in 1	2018 2017 Ame (dollars in theseands)	2018 2017 Amount (dollars in the syands)	2018 2017 Amount %

Other income, not includes interest income, instruct expense and the impact of foreign currency transaction gains and losses. Other income, not increased \$1.1 million for the year ended December 31, 2018, primarily as a result of recognized gasss interest income on marketable securities.

Income Tax Benefit (Expense)

income ruc meneja (a.apenne)							
		Year En	ded				
		Decembe		Clungs			
		2018	2017	Amount	%		
			*Ax Adjusted				
			(dollars in t				
Income tax benefit (expense)	S	(339)	\$ 155	\$ (494)	-319%		
	44						

Income tas benefit (repease) consists of current and deformed tases for U.S. and foreign income tases. The income tas expense increase in 2018 of 95 million computed to 2017 was primarily due to a receivante tas benefit in 2017 related to the acquisitions of a business. On December 2, 2017, Gelora las Inglishions was exacuted which included bowring the U.S. computer accounts in sets to 31% efficience in 2018. We remeasured derivated trans activate all abilities based on the tase rates at this hidt, pare expected to reverse in the finant, which is generally 27%. As we have in all standard analysis and search fine all confidence in a search field death at least a market in all residence of the search and analysis of the search analysis of the se

## Year Ended December 31, 2017 Compared to the Year Ended December 31, 2016 Revenue

		Year !									
		December 31,				Change					
		2017 *As Adjusted		"As Adjusted "As Adjusted		2017 2016		2016		Amount	%
	*As /					Ax Adjusted					
					thousands)						
Subscription and support	\$	144,108	S	100,270	s	43,838	44%				
Professional services and other		16,867		12,347		4,520	37				
Total revenue	\$	160,975	s	112,617	s	48,358	43%				
Subscription and support revenue increased \$43.8 million for the year ended Degrowth in international revenue, which contributed 15% of total revenue for the year ended December 150.000 for the year ended December 150.000		f customers, which	has grown to	over 3,000 as of Decer	mber 31, 201	7, net revenue retention in ex	cess of 100% and continued				
Professional services and other revenue increased \$4.5 million for the year ende	nd December 31, 2017, primarily due to the increase in new customs	ers discussed above.									

Professional services and other revenue increased \$4.5 million for the year ended December 31, 2017, primarily due to the increase in new customers discussed above.

Cost of Revenue and Gross Margin

		December 31.				Change			
	-	2017		2016		Amount		%	
		_	As Adjusted		*Ax Adjusted				
					(dollars in	thousands)			
Cost of revenue:									
Subscription and support	5	s	34,351	s	24,252	s	10,099		42%
Professional services and other			12,211		8,750		3,461		40
Total cost of revenue	5	s	46,562	S	33,002	s	13,560		41%
Gross margin percentage:	•					_			
Subscription and support			76%		76%				
Professional services and other			28		29				
Total gross margin			71		71				

Total cost of revenue increased \$11.6 million for the year ended Dicember 31, 2017 primarily due to an increase in compleyer-related costs, web hosting costs, amerization of developed technology and outside contractor costs. Total gross margin increased due to the impact of improved increases of our web hosting costs described in advertisement and improved corrects.

Professional services and other costs of revenue increased 53.5 million for the year ended December 31, 501 primarily due to an increase in employ se-critated costs, travel, information technology expenses and allocated overhead expenses. Employee-critated costs increased 32.5 million as we continued upon an emploisuead services appearance in technology expenses in tend of technology expenses in tender to a final man for the similar and for instructional expenses or content of the similar and to the interest in tender continued to the interest and content of the interest and content

Operating Expenses Sales and Marketing

Sites and marketing

| Sites and marketing | Sites and marketing propers increased \$12.24 million for the year and \$10.24 mill

Research and Development

| Territoria | Ter

Recent had development expense increased \$31.2 million for the year ended December 31, 2017 printerly due to an increase in employmentated containing, and allocated overhead expenses. Employment and contained an increased \$9.2 million, contained contained and market increased \$9.5 T million printerly due to some confedence and information includingly, expenses increased \$9.0 million, contained and printer increased \$9.5 T million printerly due to some confedence and information includingly expenses increased \$9.0 million, as we continue to gove on emperorage organization to develop new applications and continue to develop additional floaters for Carea and Bindge. Allocated overhead expenses and other insignificant items increased \$9.7 million printerly due to higher rest and communication expense and ministrance on or facilities.

	2017		2006		Amount		%
				(dollars in t	heavands)		
General and administrative	S	31,196	S	25,542	S	5,654	22%

General and administrative repress in neural \$4.5 million for the year could locative \$1.2 (primarily the tax in investor in employer-field cent, information includes) and included and ordered at Employer-field and one investor \$4.0 million primarily or investor and primarily or interest investors and included and primarily and investors and ordered and primarily ordered and primarily ordered and primarily ordered and primarily and investors and investors and primarily ordered and primarily ordered and primarily ordered and primarily ordered primarily ordered primarily ordered and primarily ordered primarily ordered

## Other Income (Expense)

Other income (expense), net

See Note 1 of the notes to the consolidated financial statements for a surrerary of adjustments.

Other income (expense), net includes interest income and expense, the change in fair value of summant liability and the impact of foreign currency transaction gains and losses. Other income (expense), net increased \$0.6 million for the year ended December 31, 2017 primarily due to foreign currency transaction gains of \$0.5 million offsetly the change in fair value of summan liability for the period.

Liquidity and Cupital Resources

As of December 11, 2011, we had \$541 million of cush and cush equivalent and \$545 million is short-tern marketable execution. We believe our cush, cash equivalents, short-term marketable executions, and equivalents, short-term marketable executions. We believe our cush, cash equivalents, short-term marketable executions, and equivalents, short-term marketable executions and cush from execution for the execution of the execution

To generate the following such the conficiency are ground to ground the configuration and the configuration an

<u>-</u>					
	2018	2017			2016
·		(in thee			
Net cash provided by (used in) operating activities S	98	S	(21,129)	S	(21,608)
Net cash provided by (used in) investing activities	(63,304)		2,231		(31,306)
Net eash provided by financing activities	121,833		10,052		6,982

Our cash flows are subject to seasonal fluctuations. A significent person of our constructs have terms that coincide with our academic contenent' typical fined year-end of Jane 20. Historical experience has shown an increase in new and reserved contents as well as anniversary historical with which amountainty proceds the beginning of our academic contenent' typical fined year-end We typically reflected in higher cash flows, sometime removable and deferred remove historical feet many and all third quarter of end year.

Operating Activities

Not each provided by operating activities consists primarily of net loss adjusted for centain non-each items, including stock-based compensation, depreciation and ameritation and other non-each charges, net.

Net cash provided by operating activities during 2018 was \$0.1 million, which primarily reflected our net less of \$41.5 million, offset by non-eath expenses including \$22.7 million of stock-based compensation and \$11.3 million of deprecation, amortization and other insignificant items. Working capital sources of cash included a set increase of \$54.6 million in deferred review and accounts receivable grainarily resulting from the growth in customers during the printil. These sources were parally offset by an increase in prepaids and other assets of \$2.6 million, a decrease in accommand partial and account plantices of \$2.8 million, a decrease in accommand partial and account plantices (\$2.4 million and decrease in accommand partial and account plantices (\$2.6 million, a decrease in accommand partial and account plantices). See a final and account plantices (\$2.4 million and decrease in accommand partial and account plantices) and account plantices are accounted by the second partial properties of the second partial plantices are accounted by the second partial plantices are accommand to the insignation of the properties of the partial plantices are accounted by the parallel plantices are accounted by the properties of the partial plantices are accounted by the partial plantices are acc

Not cade seed in operating activities during 2017 was 2211 million, which primarily reflected our net loss of \$531 million, officet by son-cash exposes that included \$157 million of snot-based compensation and \$60 million of depressation and other insignificant times. Working copials sources of cash reducted a rest crosses of \$100 million in correct and increases of a size of \$100 million in correct and increases of a size of \$100 million increase in accounts possible and account increase in accounts possible and account increase in accounts possible and account including the contract of \$100 million increase in accounts possible and account including the account including

Net cash used in operating activation during 2016 was \$21.6 million, which primarily reflected our act loss of \$42.2 million, office by non-eath exposes that included \$10.7 million of disord-based compensation and \$41.2 million of dispeciation and other minigatificant items. Working copinal accounts of each needed as a niceases (ext.) 10 million in deferred coverage primarily resident from the growth in contoners during the period and a \$3.7 million increase in accounts pupils and account faithful. These asserts were partially effect by an increase in deferred creat and their hallion of the \$9.0 million and accounts for a faithful.

The second proper in the second pupils and account pupils and account faithful.

The second proper in the second pupils and account pupils and account faithful.

The second pupils are account pupils and account pupils and account faithful.

The second pupils are account pupils and ac

Our immortge activities here consisted principle of prochesses of marketable securities, properly and approach partners for computer-claded apoptions and capitalization of software development costs. Capitalized software development costs are related to new applications or improvements in our existing software plainfall multi-report differ facilitationally for our continence, however, we expect that we will continue to invest the requestions of an interveneents in, our leaned upone, both domestically and attenuationally.

Not can have in investigate dots to death of partners of the processing of the

Net each used in investing activities during 2016 was \$11.3 million, consisting primarily of purchases of marketable securities of \$28.8 million, partially office by \$51.0 million of each maturities from our materiable securities. Other each used in investing activities in cludes \$7.7 million of purchased software lecents, classified within integrable sused, and propriy and expirator, including expiritions deformed exclusive development costs. These uses were office by \$90.0 million of proceeds from disposals of properly and expirator at

## Financing Activities

Our functing science of common took from employee equity plans.

Net cack provided by functing activities have consisted primately of proceeds from the common note officing and the issuance of common took from employee equity plans.

Net cack provided by functing activities for 2018 was \$12.18 attlion and consisted of \$1003 million in not proceeds received from a common stock officing uffer deducting underwriting discounts and commissions and officing expenses, and \$12.5 million in proceeds received from a common stock and/or our employee equity plans, including the curvature of the common stock and/or our employee exists purchase plans, effect by \$0.5 million in shore repurchased for tax withfuldings on vesting of resisted stock and other imaginforant team.

Ner cash provided by funacing activities for 2017 was \$10.1 million consisting of \$10.4 million in proceeds received from the insuance of common stock under employee equity plans, including the exercise of stock options and employee stock purchase plan; offset by \$0.3 million in shares report-assed for tax withholdings on voting of contracted stock.

Net cash provided by financing activities for 2016 was \$7.0 million and consisted of proceeds received from the issuance of common stock under employee equity plans.

Contractual Obligations and Commitments

Contractual obligations are each that we are obligated to poy as part of certain contracts that we have eastered into during the course of business. Below is a table that shows the projected outlays as of December 31, 2018:

						Payments du	e by Period	t:			
			Less			1-3		3-5		Mary	
Total			1 Year			Years		Years		5 Years	
						(in theusands)					
S	66.541	S		8.469	S	17.086	S	17.373	S		23.613

lease obligations \$ 66,541

We lease our office facilities under non-cancelable operating leases. As of December 31, 2018, we had leases that expire at various dates through 2029.

Letters of Credit

As of December 31, 2018, we had a total of \$2.4 million in letters of credit outstanding in favor of certain landloads for office space. These letters of credit renew annually and expire at various dates through November 2027.

Off-Balance Sheet Arrangements

During 2016, 2017 and 2016, we did not have any relationships with any entities or financial partnerships, such as structured finance or special purpose entities established for the purpose of facilitating off-balance sheet arrangements or other purpose.

Institute Taxa

As of December 31, 2018, we had approximately \$5.527 million and \$50.57 million of Educat and non not operating by some of recording loss complements, equality to reduce future translation and the state of the state of the propose and afficient records and development into continuous fields of agreements (S). Similion and state composing to complements of the propose of S). The state of th

Utilization of the not operating loss cars/forwards may be subject to a substantial annual limitation due to the ownership change limitations provided by the Internal Revenue Code of 1986, as amended, and similar state provisions. The annual limitation may result in the expiration of net operating losses and credits before utilization.

Due to our cumulative losses, we maintain a full valuation allowance against our net deferred tax assets as of December 31, 2018. We consider all available evidence, both positive and negative, in assessing the extent to which a valuation allowance should be applied against our deferred tax assets.

Critical Accounting Pulsies and Estimatos

Our management's discussions and analysis of funccial conditions and results of operations in board on our consolidated funccial autometers which have been proposed in accordance with GAP. In preparing our funccial attentioners, we make crimature, assumptions and judgments are researchly to the conditions of the second properties of the contraction of the contraction

celtimates.

The critical accounting estimates, assumptions and judgments that we believe have the most significant impact on our consolidated financial statements are described below.

Remark Econoguism

We present revenue primary from two main sources (1) subscription and support revenue, which is comprised of SuaS Secs from customers accessing one farming, assessment and ablort management systems and from customers purchasing additional support beyond the standard apport the system Secs, and (2) valued preferences are recognized when control of these survives is transferred to are customers, in an amount that reflects the consideration were recognized when control of these survives is transferred to are customers, in an amount that reflects the consideration revenue to be entitled in in exchange for those curvives.

We determined arevenue recognition through the following steps:

[Association of the contract, or contracts, with a customer.]

Identification of the performance obligations in the contract

Allocation of the transaction price to the performance obligations in the contract

Recognition of revenue when, or as, we usinfy a performance obligation

The following describes the nature of our primary types of revenue and the revenue recognition policies and significant payment terms as they pertain to the types of transactions we enter into with our customers.

Advertision and Support

This confidence is desired them from the contents to access our densing, accessed and advert recognises content and apport beyond the consideration of the such and of the content of the conte

Professional services in derived from implementations, taining, and consulting services. Our professional services are typically considered distinct from the related subscription services as the promise to insufer the subscription can be fulfilled independently from the related services processed in the construction of the c

Conseque with Multiple Performance Obligations

Many of an content with contents with contents and multiple performance obligations. We account for build-bad performance obligations reported by they are failure. The transaction print is distincted to the spread performance obligations are a studies modelless with a performance obligation and a studies modelless with the performance obligation and a studies modelless with the performance obligation and a studies modelless with the performance obligation are a studies modelless with the performance obligation are a studies and the performance obligation are a studies modelless with the performance obligation are a studies with th

Deformed Commissions

Sales commissions cannel by our sales force, as well as related paped lates, are considered incremental and exceesable costs of obtaining a contract with a customer. These costs are deformed and then amentioned on a simple-line basis over a period of breastle flow for bore to be period by the period for bore to be period by being and contract with a customer. These costs are deformed and then amention on a simple-line basis over a period of breastle flow for bore to be period by the period of breastle flow for bore to be period by the period of breastle flow for bore to be period of bore to be period

Defined Revenue
Defined revenue consists of billings and popumens received in advance of revenue recognition generated by our subscription and support services and professional services and other, as described above. ASS 666 introduced the concept of contract liabilities, which is introduced to receive securities guidance.

Stock-Based Composession

We account for all tack opinions and sweeth granted to employees and nonemployees ways for subsended, Stock-based composition in ecosposited as an exposes and in nearest all the first what of the value of the sweeth. The measurement dust for employee sweeth is generally the date of the grant. Stock-based compositions continued as a expose sand in measured at the first value of the sweeth with only a service condition, and using the accelerated arthrates medium for a sweeth with soly a service condition, and using the accelerated arthrates medium for a sweeth with only a service condition, and using the accelerated arthrates medium for a sweeth with only a service condition, and using the accelerated arthrates medium for a sweeth with only a service condition. The observation is a sweeth with solve a sweeth with only a service condition, and using the accelerated arthrates medium for a sweeth with only a service condition. The observation is a sweeth with only a service condition, and using the accelerated arthrates medium for a sweeth with only a service condition. The observation is a sweeth with only a service condition, and using the accelerated arthrates medium for a sweeth with only a service condition, and using the accelerated arthrates medium for a sweeth with only a service condition. The observation is a service condition and the sweeth with only a service condition and using the accelerated arthrates medium for a sweeth with only a service condition. The observation is a sweeth with only a service condition and the sweeth with only a sweeth with only a service condition and the sweeth with only a sweeth with only a service condition and the sweeth with only a sweeth with only a service condition. The observation is a sweeth with the sweeth

next and nervice considers. Furthernous are consomed for an they occur.

We note the made design perior of commons most as reported in the New York Stock Exchange for the first when of contented abod, unite. (PSEN) partned.

We note that Scholars quite principal content in the content of th

- Expected Finiships, Since, we did not have a studing bitary of our common stock, the expected volatility was determined based on the bitarical stock volatilities of our comparable companies. To determine on per companies, usual the following critoric software or without-new-row companies; unline him in our set relevitive companies financial revenue, settlement paths to employ usualing bitary, and in initial besistences and gaugestical markets. We set till get peer's tock piece without peer of the peer's tock previous are no longer sentine to one under companies and the companies are not indicated to the control of the peer's tock peer's peer's

Recent Accounting Pronouncement
For information on recent accounting pronouncement, see Recent Accounting Pronouncement in the notes to the consolidated financial statements appearing elsewhere in this Annual Report on Form 10-K.

Item 1s. Quantitative and Qualitative Relichment About Market Risk.

The primary objective of our inventment activities in its preserve or capital to find our operations. We also need to maximize income from our inventments without assuming implicant risk. To achieve our objectives, we maintain a particle of each opprisely and of complete and inventment of \$150 to achieve contractives of activated in the primary outled regular and to account in highly start financial institutions in the United States. A popular and our inventment on \$150 to achieve contractives of activate to activate the contractive contractive contractive and account in highly start financial institution in the United States. A popular and on the contractive contractive contractive and account in highly start financial institution in the United States. A popular and account in the primary of the contractive contractive contractive and account in highly start financial institution in the United States. A popular and account in highly start financial institution in the United States. A popular and account in highly start financial institution in the United States. A popular and account in highly start financial institution in the United States. A popular and account in highly start financial institution in the United States. A popular and account in highly start financial institution in the United States. A popular and account in highly start financial institution in the United States. A popular and account in highly start financial institution in the United States. A popular and account in highly start financial institution in the United States. A popular and account in highly start financial institution in the United States. A popular and account in highly start financial institution in the United States. A popular and account in highly start financial institution in the United States. A popular and account in highly start financial institution in the United States. A popular and account in highly start financial institution in the United Sta

INSTRUCTURE, INC.
INDEX TO CONSOLIDATED FINANCIAL STATEMENTS

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## REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

Opmone as the Transmit Nationacous An Application of Companies of Companies of Companies (2011) for a control of control of Companies (2011) for a control of control of Companies (2011) for a control of Compa

These function attenues are the exponsibility of the Company's management. Our responsibility is to express an opinion on the Company's function interaction based on our makes. We are a public accounting from registered with the PCAOB and are required to be independent with expect to the Company on constituence with the U.S. fadered recurries laws and the application of the Securities and Enchange Commissions and the PCAOB.

We conducted our admin necessaries with the CAOR Three canades because the second of the foundation of the Secondition and Secondary of the se

/s/ Ernst & Young LLP

We have served as the Company's auditor since 2012. Salt Lake City, Utah February 20, 2019

## REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

We have audited instructure Inc.'s internal control over funncial reporting as of December 31, 2018, based on criteria established in Internal Control—Integrated Framework issued by the Committee of Sponsoring Organizations of the Treadway Commission (2013 framework) (the COSO criteria). In our opinion, Instructure, Inc. (the Company) maintained, in all material respects, effective internal control over funncial reporting as of December 31, 2018, based on the COSO criteria.

We also two analogal, accordance that the standards of the Public Company Accordance (Proceed) Based (Vinite States) (PCA/08), the considerable analogate, sources in a Coloration of the Company Accordance (PCA/08), the considerable analogate control of the Company Accordance (PCA/08), the considerable analogate control of the Company Accordance (PCA/08), the considerable analogate control of the Company Accordance (PCA/08), the considerable analogate considerable analogate (PCA/08), the considerable analogate (PCA/08), Basis for Opinion

The compay's management requalities for animative effective tomed control over function report for the company of the company

Definition and Limitations of Internal Control Over Financial Reporting

A traperty's standard error of our famined reporting as a process designed to provide measurable assessor regarding the reliability of faminist reporting and the preparation of famined attenues for control purposes in accordance with greenly accordance property.

A company's standard control of a famined attenues for control purposes in accordance with greenly accordance property, and the receipt and expendence of the company are being made only a recordance with adheritations of management and detection of the company, a ready provide accordance greenly accordance of the company are being made only as excellence with adheritations of management and detection of the company, and accordance with adheritations of management and detection of the company, and that could heave a management and detection of the company, and that could heave a management and detection of the company, and that could heave a management and detection of the company, and that could heave a management and detection of the company, and that could heave a management and detection of the company, and that could heave a management and detection of the company, and that could heave a management and detection of the company, and that could heave a management and detection of the company, and that could heave a management and detection of the company, and that could heave a management and detection of the company, and that could heave a management and detection of the company, and that could heave a management and detection of the company and that could heave a management and detection of the company and that could heave a management and detection of the company and that could heave a management and detection of the company and that could heave a management and detection of the company and the could heave a management a

Because of its inducent limitations, internal control over funacial reporting may not prevent or detect minintaneous. Also, projections of any evaluation of effectiveness to future periods are adject to the risk that controls may become inadequate because of changes in conditions, or that the larger of compliance with the policies or precedence may deteriorate.

# INSTRUCTURE, INC. Consolidated Balance Sheets (in thousands, except per share data)

		vmber 31,
	2018	2007
		*As Adjusted
Assits		
Current assets:	\$ 94170	
Cash and cash optivalents Short term marketable securities	\$ 94,320 58,630	S 35,693 5,697
Accounts receivable—net of allowance of \$1.092 and \$318 at December \$1, 2018 and 2017, remertively	35.514	34.312
Propose expenses	13.918	11.492
Polismo commissions	8.226	7.066
Ober connet socie	2.019	2.419
Total convent autors	212.627	96,699
Forest water and a consistent of the consistent	27.388	23,926
r ropinsy amia separation, uso. Goodwill	12.354	12.354
Interesting asserts, net	6.262	9.045
Noncarrent personal extrement	1516	2,999
Politrad commissions and of cumust portion	11.404	11.190
Other assets	446	497
Tetal assets	\$ 271.997	5 156.623
Liabilities and stockholders' equity	2 20,00	2 130,000
Current liabilities:		
Account toyable	\$ 3.581	5 2.992
Account tabilities	9,809	13.792
Defendant	1,329	936
Deferred revenue	117.298	99,773
Total current liabilities	132.017	117.303
Defirmed revenue, not of current person	1177	1 899
Deferred rent net of current notion	10.150	9.201
Other lone-turns liabilities	20	1.295
Tarol Babilities	126 640	129,629
Commitments and continuencies		
Stockholden' equity:		
Professed stock, par value of \$0,0001 per share; 10,000 shares authorized as of December 31, 2018 and 2017; no shares issued and constanting as of December 31, 2018 and 2017.	_	_
Common stock, par value of \$0.0001 per share; 200,000 shares authorized as of December 31, 2018 and 2017; 35,586 shares issued and outstanding as of December 31, 2018; 30,660 shares issued and		
outstanding at December 31, 2017	3	3
Additional guid-in capital	395,865	250,999
Accumulated other comprehensive loss	(X)	(1)
Accumulated deficit	(267,422)	(223,957)
Total stockholders' equity	128.438	26,944
Total liabilities and stockholders' equity	\$ 273,997	\$ 156,623
<ul> <li>See Note 1 for a summary of adjustments</li> </ul>		
See accompanying notes.		

# INSTRUCTURE, INC. Consolidated Statements of Operations (in thousands, except per share amounts)

			Year Ended December 31.			
		2018	2017		2016	
Revenue			*As Adjusted		*As Adjusted	
Subscription and support	s	188.501	S 144.108	s	100.270	
Professional services and other		21.043	16,867		12,347	
Total revenue		209,544	160,975	_	112,617	
Cost of revenue:						
Subscription and support		46,706	34,351		24,252	
Professional services and other		15,137	12,211		8,750	
Total cost of revenue	·	61,843	46,562		33,002	
Gross profit		147,701	114,413		79,615	
Operating expenses:	·					
Sales and marketing		97,481	78,726		65,907	
Research and development		59,391	48,293		35,973	
General and administrative		35,602	31,196		25,542	
Total operating expenses		192,474	158,215		127,422	
Loss from operations	· · · · · · · · · · · · · · · · · · ·	(44,773)	(43,802)		(47,807)	
Other income (expense):						
Interest income		2,413	361		352	
Interest expense		(68)	(55)		(87)	
Ofter income (expense), net		(698)	257		(343)	
Total other income (expense), net		1,647	563		(78)	
Loss before income tax benefit (expense)		(43,126)	(43,239)		(47,885)	
Income tax benefit (expense)		(339)	155		(317)	
Net loss	\$	(43,465)	\$ (43,084)	s	(48,202)	
Net loss per common share, basic and diluted	S	(1.27)	S (1.47)	S	(1.73)	
Weighted-average common shares used in computing basic and diluted net loss per common share attributable to common stockholders		34,248	29,401		27,838	

See accommension of

INSTRUCTURE, INC.
Consolidated Statements of Comprehensive Los

					Year Ended December 31,		
			2918		2017		2016
					*As Adjusted		*As Adjusted
Net loss		S	(43,465)	S	(43,084)	S	(48,202)
Other comprehensive income (loss):							
Net change in unrealized gains (losses) on marketable securities			(7)		- 11		(12)
Comprehensive loss		S	(43,472)	S	(43,073)	s	(48,214)
See Note 1 for a summary of adjustments							
	See accompanying notes.						

# INSTRUCTURE, INC. Consolidated Statements of Stockholders' Equity (in thousands)

	Cammon Stock, 50.001 Par Value		Common Treasury Stock		Treasury Stock		Treasury Stock		Treasury Stock		Treasury Stock		Additional Paid-In	Accumulated Other Comprehensive	Accumulated Delicit	Total Stockholders' Equity
	Shares	Amount	Shares	Amount	Capital	Incesse	*As Adjusted	*As Adjusted								
Balances at December 31, 2005	28,368	4	(1,128)	(1)	188,517		(132,418)	56,002								
Issuance of common stock under employee stock purchase plans	1,051				7,009			7,009								
Vesting of common stock subject to repurchase	_	_	_	_	25	_	_	25								
Vested restricted stock units, net	185	_	_	_	_	_	_	_								
Shares withheld for tax withholding on vesting of restricted stock	-	_	-	_	(27)	_	_	(27)								
Stock-based compensation	_	_	_	_	10,674	_	_	10,674								
Retirement of treasury stock	(1,128)	(1)	1,128	1	_	_	_	_								
Exercise of common stock warrant	78	_	_	_	244	_	_	344								
Unrealized loss on marketable securities	_	_	_	_	_	(12)	_	(12)								
Net loss	_	_	_	_	_		(48.202)	(46.202)								
Balances at December 31, 2016	28.554	3			206.442	(12)	(150,620)	25.513								
Currelative-effect of chance in accounting policy					253		(253)									
Exercise of common stock ornions	1.083	_	_	_	5.371	_		5.371								
Verting of restricted stock units, net	465	_	_	_		_	_									
Purchase of USPS shows	254	_	_	_	5.004	_	_	5.004								
Stock-haved compensation			_		15,670		_	15,670								
Common stock and options issued in acquisition	594	_	_	_	18.451	_	_	18.451								
Unrealized gain on marketable securities		_	_	_		- 11	_	- 11								
Shares withheld for tax withholding on verting of restricted stock	_	_	_	_	(292)	_	_	(292)								
Not loss	_	_	_	_		_	(43.094)	(43.054)								
Balances at December 31, 2007	30.560				250.999	(1)	(223,957)	26,944								
Exercise of common stock ontions	845		_		6.281		(445,141)	6.251								
Verting of restricted stock units, net	601	_	_	_		_	_									
Purchase of ESPP shares	203				6 196			6.196								
Stock-haved compensation		_	_	_	23.115	_	_	23.115								
Common stock and options issued in acquisition																
Secondary officing	2,875				109.799			109.789								
Unrealized usin on marketable securities			_		100,000	(7)	_	(7)								
Shares withheld for tax withholding on verting of restricted stock	_	_	_	_	(405)		_	(405)								
Not loss					(407)		(43.465)	(43.465)								
Balances at December 31, 2008	15 186	5 1			201 501	2 (5)	5 (267.422)	S 128.438								

See accompanying no

# INSTRUCTURE, INC. Consolidated Statements of Cash Flows (in thousands)

		2018	2017	2016	
			*As Adjusted	*As Adjusted	
perating Activities:					
Net loss	s s	(43,465) \$	(43,094)	5 (41)	
Adjustments to reconcile net loss to net cash used in operating activities:					
Depreciation of property and equipment		1,749	6,187	3.5	
Americation of integrible assets		2,786	572	- 7	
Amentization of deferred financing costs		19	31		
Change in fair value of mark-to-market liabilities Stock-based compensation		(1,266)	15,670	10.	
Other		(497)	(17)	20)	
Changes in assets and liabilities:		(417)	(17)		
Changes in annits and tabilities: Accounts requirable, set		(2.667)	(14.892)	a.	
Propaid exposses and other assets		(2,553)	(9,176)		
Defend commissions		(1,384)	(4,990)	(4)	
Accounts payable and accrued liabilities		(2,865)	740	21.	
Deferred revenue		19,006	26,763		
Deferred next		1,342	992		
Other liabilities			(32)		
Not cash provided by (used in) operating activities		96	(21,129)	(21)	
esting Artivities:					
Purchases of property and equipment		(11,132)	(15,750)	(7)	
Purchases of intensible assets			(310)	0	
Proceeds from disposal of property and equipment		88	76		
Purchases of marketable securities		(113.860)	(11.085)	(28)	
Manuface of marketable securities		61,600	29,700	5.	
Not cash provided by (used in) invention activities	_	(67.304)	2 211	- al	
ancier Activities	_	100.000			
Proceeds from common stock offerings, net of offering costs.		109.799	_		
Proceeds from insurance of common stock from employee equity plans		12.467	10.375	7.1	
States constituted for tax withholdings on vertice of corticted mock		(405)	(292)		
Parametre of line of credit financies costs		(15)	(11)		
Net cash provided by financine activities	_	121.833	10.052	6	
t increase (ductorse) in each and each controllers		58.627	(3.846)	(45)	
t across (dictate) is cast and cast operated that dark equivalent that dark equivalent, beginning of period		35,603	44.539	(6),	
sh and cash onalvalents, ond of noticed		94,320 \$	35,693	\$ 44.	
		70,07	33,000		
pplemental cash flow dischears: Cash tanas toid		198 5	276	5	
Codi tasse past n-codi investige and financine activities:	,	200 5	2/6	3	
lessance of common mick for exercise of common mick warrant		_ 1		5	
Capital expenditures incurred but not yet raid	1	171 5	274	\$	
Capital exponentiases incurried test not yet pand formation of common stack for acconsistion	-	JII 3	19.40	3	
Vocation of common stack subject to commons					

1. Description of Business and Summary of Significant Accounting Policies

Organization

Instructor provides monovive applications for learning, assessment, development and engagement. We enable organizations worthwise to develop, deliver, manage and track engaging scadenic and employer development programs. We either our platform through a Software—a-Service which homeon model. We were recognization in the state of Deliverar in September 2006. We are becausement in Sect Late City, Usia, and have wholly-second subsidiation in the binned England, storation, the Schedulands, thing King, Seconder, Board Markers and Platguey.

Bins of Pronoutation

The consolidated financial attenuents have been prepared in accordance with accounting principles generally accepted in the United States, or U.S. GAAP: The accompanying consolidated financial statements include our accounts and those of our wholly-owned subsidiaries. All my parasetions have been eliminated as considiation.

De et Lindows
The contraction of the condition of instruction of contraction of c

Operating Septemens
We operate as single operate, cloud-based lurning management, assessment and performance systems. Operating septement are defined as components of an enterprise for which separate function in regularly evaluated by the chief operating decision makes; or COSIA, which are not their enterprise regular in the function of fine and chief function difficure, in deciding how to advance resources and support information and resources and among the performance of these resources are consolidated basis. Since we operate non-expected in one production general information in the formation and resources and among the performance of these resources are consolidated basis. Since we operate non-expected in one production general information in the formation and resources and among the performance of these resources are consolidated basis. Since we operate non-expected in one production general information in the formation of the formation of

Not Less Fes Share standardes to Cammon Stackholden

Blace of this per share arthrophic to Cammon acceleration is compared by dividing set loss arthrophic to common acceleration by the engineer of common down automating for the protein. On the engineer of the common down automating for the protein of the collection of the common acceleration to common acceleration by the engineer of the common down automating for the protein of the collection, option to protein acceleration to common acceleration to the common acceleration to common acceleration to the common acceleration to common acceleration to the common F-8

		Year Ended December 31.	
	2018	2017	2016
		*As Adjusted	*As Adjusted
Numerator:			
Net loss	\$ (43,465)	S (43,084)	S (48,202)
Denominator:			
Weighted-average common shares outstanding—basic	34,248	29,401	27,852
Less: Weighted-average common stock subject to repurchase	_	_	(14)
Total weighted-overage common shares outstanding—basic	34,248	29,401	27,838
Dilutive effect of share equivalents resulting from stock options, unrested restricted stock awards and common stock warrants			
Weighted-average common shares outstanding-diluted	34,248	29,401	27,838
Net loss per common share	S (1.27)	S (1.47)	S (1.73)

For the years ended December 31, 2018, 2017 and 2016, we incurred net losses and, therefore, the effect of our outstanding options to purchase common stock, common stock warrants and restricted stock units were not included in the calculation of diluted net loss per share as the effect would be anti-fallative. The following table contains share totals with a potentially dilutive impact (in thousands):

		Year Ended December 31.	
	2018	2017	2016
Options to purchase common stock	1,303	2,010	3,106
Common stock warrants	_	17	17
Restricted stock units	1,690	1,514	1,133
Total	2,993	3,541	4,256

Concentration of Credit Eds, Spejifous Customers and International Operations

Francial information that potentially subject to as a concentration of credit risk consist principally of code and accounts receivable. We deposed each with high credit quality functed institutions, which at times, may exceed federally insured amounts. We have not experienced any lunes or no deposits. We perform outputs of accounts receivable and result and insured an alternative for accounts receivable for accounts receivable and result and insured an alternative for deposits account necessarily and receivable for account necessarily and receivable for account necessarily and receivable and result and result and result and receivable for account necessarily and receivable for account necessarily and receivable and result and receivable for account that we demand an alternative and receivable for account necessarily and receivable and receivable and receivable and receivable for account necessarily and receivable and receivable and receivable and receivable for account necessarily and receivable and receivable and receivable and receivable for account necessarily and receivable and receivable and receivable and receivable and receivable and receivable for account necessarily and receivable and rece

Frances instruments that potentially subject us to a concentration of croth risk censul principally of cash and accounts receivable. We deposed cash with high credit quality linances in modern deposits. We perform ongoing credit evaluations of our customers' financial condition and generally require no collateral from our customers. We review the expected collectability of a we determine are not collectable.					
There were no customers with revenue as a percentage of total revenue exceeding 10% for the periods presented.					
The following table depicts the largest customers' outstanding net accounts receivable balance as a percentage of the total outstanding net accounts receivable balance:					
	Year Ended December 31, 2018 2017				
Customer A	14.0% 10.0				
There were no other customers with outstanding net accounts receivable balances as a percentage of the total outstanding net accounts receivable balance greater than 10% as of December	er 31, 2018 and 2017.				
F-9					

In 2014, we began international operations. Because our long-term growth strategy involves further expansion of our sales to customers outside of the United States, our business will be associated with international operations. Refer to Note 7—Geographic Data for dutals.

Conh and Cosh Equivolents

We consider all short-term highly liquid investments purchased with original maturities of three menths or less at the time of acquisition to be each equivalents.

The contract is non-consequence of the contract in a non-consequence of the contract in a contract i

Accessed Revisible

Accessed a factor of the compiled sense cannot all the compiled accessed in the all controls based on the probability of factor collection. When management beaments are not described accessed to all controls accessed to the control of the co

	Region	log		Costs or				End of
	of Peri	od		Expenses		Deductions (1)		Period
Allowance for Doubtful Accounts								
Year ended December 31, 2018	S	318	s	1,399	s	(625)	s	1,092
Year ended December 31, 2017	S	241	S	197	S	(120)	S	318
Year ended December 31, 2016	S	225	S	262	s	(246)	S	241

Deductions include actual accounts written-off, net of recoveries and revaluations.

Property and Equipment and Intemplie Assots
Property and equipment are stated at cost less accumulated depreciation. Expositions that materially increase values or expectite or extend sortial ince of property and equipment are equitalized.

F-30

Estimated Varied Life
2-3 years
2-3 years
2-5 years
2-5 years
3 years
lesser of lease term or useful life (2-10 years)

Centation time processors and over Centation time recent to develop software applications used in the cloud-based training, accurated, development and regagament system are copied out of antiants and services measured an developing or eleminang intended see software, and (2) popul and psycholicitude onto the employees who are directly considered and the extraction of th

Acquired finite-lived intangibles are amortized on a straight-line basis over the estimated useful life of the asset, which is generally five years.

When there are indicators of potential impairment, we colluste recoverability of the carrying values of property and equipment and intamplet a sorts by comparing the currying amount of an uset to the estimated andicocontrol future cach flows expected to be generated by the asset.

If the currying amount of the asset exceeds our columntal undiscounted future need as flows, as impairment charges along the assets which the currying value of the asset exceeds the fair whise of the asset. We did not incur any impairment charges along the periods recovered.

Out the Other Consoled Console

Large or Fan-Value of Contingent Linklip.

Xiv Control of Contingent Linklip.

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Xiv Control of Co

Errors Recognition

We appear revenue primarily from the main sources: (1) subscription and appear revenue, which is comprised of State Size from customers accessing on learning, assessment and about management systems and from customers purchasing additional support beyond the disperse than its middle to be the State Size, and (2) which professional services revenue, which is comprised of braining, implementation services and other types of professional services. Revenue is recognized when control of those services is transferred to our customers, in an individual to consideration services with professional services. Revenue is recognized when control of those services is transferred to our customers, in an individual to consideration services are required with a control of these services.

Identification of the contract, or contracts, with a customer

Identification of the performance obligations in the contract

Recognition of recense when, or as, we usifuly a performance adolgation

The following describes the nature of our primary types of recense and the recense recognition policies and significant payment terms an they pertain to the types of transactions we enter into with our customers.

Subscription and Support
Subscription and Support resears is desired from fine from continuence access and mening, accessed and tables transparent appears and appear beyond the standed support for in whiched with all subscriptions. The terms of our admiriplicate do not provide continuence the accessed from the subscription and support research accessed from the subscription accessed from the subscription

Professional Services and Other

Professional services recover in derived from implementation, graining, and consulting services. Our professional services are typically considered distinct from the related subscription services as the promise to teasifor the subscription can be fulfilled independently from the artificial professional services (i.e., consumer services standards artificial independently from the artificial professional services (i.e., consumer services standards artificially from the artificial professional services (i.e., consumer services standards artificially from the artificial professional services on the professional services). Professional services consume to typically recognized over time as the services on, consumer services are the professional services. Professional services are the professional services ar

Cantract with Adhings Performance (Originatus

Many of our months with canterness manifely performance obligations. We account for individual performance obligations separately if they are distinct. The transaction price is allocated to the separate performance obligations no a relative standabors ediling prices
(SSP) basis. We determine the standabors cellular prices taked on our overall pricing objectives by reviewing our significant pricing practices, including discounting practices, groupplical lections, the size and volume of our transactions, the content type, price list, our pricing strategy, and historical standabors establing resis and position of the prices performed practices, proceedings of the prices performed practices. The price of the prices performed practices proceed to the price and volume of our transactions, the content type, price list, our pricing strategy, and historical stratables established resistance and proceedings of the prices performed practices.

Referred Commissions

Sales commissions cannel by our sales force, as well as related popul taxes, are considered incremental and excoverable costs of obtaining a contract with a constance. These costs are deferred and then americand on a straight-line basis over a period of benefit that we have determined to be greatly four years. We determined the period of benefit by taking its consideration or examiner constants, our releasing paid other factors. Americanism of deferred commissions is included a sales and marketing expenses in the accompanying consolidated interestent of

Deferred Encurace
Deferred revenue consists of billings and popuments received in advance of revenue recognition generated by our subscription and support services and professional services and other, as described above. ASC 666 introduced the concept of contract liabilities, which is by uniform the form the previous according guidance.

Cnt of Jermans

Cnt of shortpoins recoust consists primarily of our managed hosting provider and other third-party service providers, employee-citated conts including paperall, benefits and stock-based compensation expense for our operations and customer support teams, ameritation of only where the every providers cont and acquired technology, and allocated overhead cons, which we define as our off, facilities and cons include its information technology, or IT.

## Cost of professional services and other revenue consists primarily of personnel costs of our professional services organization, including salaries, benefits, travel, homeses and stock-based compensation, as well as allocated overhead costs.

Service Availability Forwards

We women to our continuence (1) that commercisely reasonable efficies will be made to maintain the online availability of the platform for a maintain analizability in a builing 30%-day great of exchaling scheduled relaiges, and-and maintenance vandors, force majors, and conquered for the control of the control of the platform way change be will not maintainly depath during any part town, and (1) that report may change be will be controlled by the control of the cont

Advertising Costs

Advertising costs are expensed as incurred and are included in sales and marketing expenses. Advertising expenses totaled \$11,387,000, 59,274,000, and \$8,673,000 for 2018, 2017 and 2016, respectively.

## Stock-Based Compensation

Since-Based Compositions
The Composition contract and such appeared to employee and monephyres using a fair value method. Stock-based composition in congenied as in experie and in measured at the fair value of the result. The measurement date for employee results is generally the variety provided date of the gast. Stock-based composition contracts recognized an expense ever the requisite exvise provided as possibly the variety provided for sounds, and saving the accelerated arthorison method for sounds with the performance of contracts and contracts and contracts and an arthorison of the contract and an arthorison of an arthorison of the contract and an arthorison of an arthorison of the contract and an arthorison of an arthorison of the contract and arthorison of an arthorison of a arthorison of an arthorison of an arthorison of an arthorison of an arthorison of a arthorison of a arthorison of a arthorison of an arthorison of a arthorison

- These assumptions are estimated as follows:

  For Filed of the Common Stock: We rely on the closing price of our common stock as reported by the New York Stock Exchange on the date of guart to determine the first when of our common stock.

  Bull-Y- the control Allow We be time the indicent stockers of the Black-Scholes spots price guarties for the implied yelds realished on U.S. Treasury—seco-open sinces with remaining term similar to the expected term on the epitoms.

  Expected Time. We estimate the reported term for most open using the simplified models due to the lack of interiorial centerior activity for our company. The simplified models declution the expected term as the mode point between the voting date and the controllar activities of the common terms of the common term

Funding Currency

The functional currency of not foreign subsidiaries in the U.S. delite. Moreously assets and inhibition denominated in a foreign currency are evaluated into U.S. delites at the exchange rates in effect at the balance short dates. become and experience counts are revealed on the date of the transactions into the change rate in effect on the transaction date. Non-monetary assets, labellities, and equips transactions are consorted as baseoid exchange rates in effect at the time of the transactions foreign currency presentation foreign currency presentation foreign currency presentation foreign currency presentation for the controllated attenuance of operations. During 2017, as an foreign currency transaction gain of \$5466,000 was recorded on the controllated attenuance of operations. During 2016, as of foreign currency transactions gain of \$5466,000 was recorded on the controllated attenuance of operations. During 2017, as of foreign currency transactions gain of \$5466,000 was recorded on the controllated attenuance of operations. During 2017, as of foreign currency transactions gain of \$5466,000 was recorded on the controllated attenuance of operations. During 2016, as of foreign currency transactions gain of \$5466,000 was recorded on the controllated attenuance of operations.

Research and Development

With the exception of capitalized software development costs, research and development costs are expensed as incurred.

Risks and Executation

We are subject to all of the risks indirect in an early stage business. These risks nebule, but are not limited to, a limited opening listory, new and repully evolving markets, dependence on the development of new services, unfloratable consmit and market conditions, changes in level of amount for our services, and the intensity of the risks indirection of the risk in the intensity of the risks indirection of the risks

Income Taxis

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Record According Promocomers:

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A to Colder 2016, for Francis and According Studiesh Based (FASE) issued ASU 2016-16, "Secons Tacs (Tops '20) Intra-Entity Trunders of Access Other Than Investory." This standard sequences an entity to recognize the income tax consequences of an intra-entity trunder for the first access to when the rate or the two first are the hose sould be an entitle print of the access to the print of the access to the first are the second print of the access to the first are the access to the access to the first are the access to the access to the first are the access to the ac

In May 2014, the FASB issued ASU No. 2014-09, Revenue from Contracts with Customers ("Topic 666") Topic 666's supersoles the recognition requirements in Accounting Standards Colification ("ASC") Topic 665, Revenue Recognition ("Topic 665") and requires the recognition of revenue as promised good set services. Topic 665's and tracked and principles of the recognition of revenue as promised good set services. Topic 666's also includes Software 1486's and Deferred Cons-Centaria Wild Sciences, with Congrains of the revenue for the recognition for the parties of the college for the recognition for the parties of the college for the recognition for the parties of the college for the parties of the parties of

We adopted the new standard as of January 1, 2018, stilling the fill retrospective method of transition. As a result, we recognized the cumulative effect of initially applying the new standard as an adjustment to the opening balance of capity on January 1, 2016. We have changed uting policy for revenue recognition as detailed above. The details of the significant changes and quantitative impact of the changes are disclosed below.

We applied Tage distinction that is a season as a second contraction of the second contraction o

The primary impact of adopting the new standard related to the defeared of necesseral commission costs to obtain customer contacts and the removal of the confingent revenue limitation. We previously expensed sales commission costs an incurred. Under the new standard, we explained and months these costs one a prosted elemental to the contract to the primary of products or arrives, or subject to our failure profit made for the revenue to the primary of products or arrives, or which to the contract to the primary of products or arrives, or which to the primary of the prima

Impacts on Financial Statements
The following tables summarize the impacts of Topic 666 adoption on our consolidated financial natements on the previously reported periods. Select consolidated balance sheet line items, which reflect the adoption of Topic 666, are as follows (in thousands).

		Decem	nber 31, 2017		
	As previously reported		Adjustments		As adjusted
Assets					
Accounts receivable—net of allowance	\$ 30	797 S	3,515	S	34,312
Deferred commissions		_	7,086		7,086
Deferred commissions, net of current portion		_	11,160		11,160
Other assets	1.	145	(548)		497
Liabilities					
Deferred revenue	99	386	687		99,773
Deferred revenue, net of current portion	3	950	(2,061)		1,889

 $Select \ audited \ consolidated \ statement \ of \ operations \ line items, which \ reflect \ the \ adoption \ of \ Topic \ 606, \ are \ as \ follows \ (in \ thousands):$ 

| Part |

	As previously reported		Adjustments		As Adjusted	
Cash flows from operating activities:						
Net loss	S	(49,822)	S	6,738	s	(43,084)
Accounts receivable, net		(12,830)		(2,052)		(14,882)
Prepaid expenses and other assets		(9,599)		423		(9,176)
Deferred commissions		_		(4,990)		(4,990)
Deferred revenue		26,882		(119)		26,763
Net eash used in operating activities		(21,129)				(21,129)

F 16

		As previously reported		Adjustments		As Adjusted	
Cash flows from operating activities:							
Net loss		S (53,5	68) S	5,366	S	(48,202)	
Accounts receivable, net		(8,8)	37)	104		(8,733)	
Prepaid expenses and other assets		(8	18)	402		(416)	
Deferred commissions				(4,084)		(4,084)	
Deferred revenue		23,5	56	(1,788)		21,778	
Net each used in coveration activities		016	18)			(21,608)	

	_	2015	_	2017	
Computer and office equipment	S	6,204	S	5,726	
Purchased software		1,071		1,071	
Capitalized software development costs		22,181		14,755	
Furniture and fixtures		4,688		3,924	
Leasehold improvements and other		15,632		13,379	
		49,776		38,855	
Less accumulated depreciation and amortization		(22,388)		(14,929)	
Total	S	27,388	S	23,926	

3. Acquaision

h November 2017, we acquired Practice XVZ, Inc. (Practice') for the purpose of enhancing on learning management system and human capital management offerings. We have nethald the operating seasls of the basiness combination in our consolidated financial indexensis since the date of the acquaision. The acquaision fall to the sea material effect on the revenue or consolidated indexension of operations for the reporting periods presented. The pro-forms evalua as if the acquaision had taken place on the first day of 2017 were not materially different forms from accordance and accordance a

Consideration		
Cash paid	\$	102
Common stock		17,715
Practice option conversion		736
Contingent liability		1,164
Fair value of total consideration	\$	19,717
Identifiable assets acquired		
Cash	S	100
Accounts receivable		98
Unbilled accounts receivable		418
Other current assets		108
Fixed assets: computers		26
Intangible assets: developed technology		5,320
Intangible assets: trade name		320
Intangible assets: customer lists		2,910
Total assets acquired	š	9,300
Liabilities assumed		
Accounts payable	s	49
Accrued liabilities		58
Deferred revenue		263
Deferred tax liability, net		578
Total liabilities assumed	s	948
Geodwill		11,365
Total purchase consideration	s s	19,717

The cases of purknet consideration or the first value of net taughte and destribble insupplies and assemble work of the construction of the purchase of purchase consideration and the assemble workforce value. The fair values using park to apply to applie and destribble insupplies areas acquired was recorded as purchased to the construction of the purchased value of

We will pay additional consideration, the contingent liability, up is \$100,000,000 in cash upon the incernated advicement of specified booking targets shough December 31, 2019 Of the \$10,000,000 of possible consideration, \$17,000,000 in subject to a 59% bookings target flow and populs in band upon the prost advicement of specified booking targets. The executing \$15,000,000 of contingent liability consideration is payable band upon 10% attenues of specified booking targets. As of December 32, 2018, or better accordance \$15,000 in continued potential future contingent liability payable to Partie. The fire value of the contingent liability was determined oning significant unabservable targets that the contingent liability will be paid of specified booking targets are not achieved.

F.18

intangene assess consisted of the soutowing (in insulantas):			
	Weighted-Average Remaining Useful Life	2018 Deces	abor 31. 2017
Domain names	15 Months	S 1,268	S 1,268
Trademarks	56 Months	120	120
Software	12 Months	620	620
Capitalized learning content	34 Months	400	400
Trade names	23 Months	320	320
Developed technology	35 Months	5,320	5,320
Customer relationships	23 Months	2,910	2,910
Accumulated amortization		(4,696)	(1,910)
Tetal		\$ 6,262	S 9,048

Based on the recorded intangible assets at December 31, 2018, estimated amortization expense is expected to be as follows (in thousands):

Years Endine December 31.	Americation Exposu
Years Ending December 31, 2019	\$ 2,626
2020	2,386
2021	1,250
Total	\$ 6,262

5. Marketable Securities

Our inventment policy is consistent with the definition of available-for-adic securities. We do not bey and hald accurating principally for the purpose of acting them in the near fature nor do we intend to hald accuration to maturity. Rather, our policy is fecused on the procurations of capital, liquidity and durfath. From time to lines, we may all certain securities but the objectives are generally not to personal procedure of affectives in price.

The following label tummarion, by major recursity bype, our ances that are measured at this value on a recursing basis (in floraustub).

				1, 2011				
	.Umortbad				Grow Unrealized		Estimated Fair	
	Cast		Gains		Losses		Value	
S		s	3	S	(7)	s	31,973	
	26,661		_		(5)		26,656	
s	58,638	s	3	S	(12)	s	58,629	
				-		_		
19								
	S S	S 31,977 26,661 S 58,638	S 31,977 S 26,661 S 58,638 S	Assertized   Green Turcalized	Annertized   Green Unrealized	Cost         Gales         Louses           5         31,977         \$         3         \$         (7)           26,661         —         (5)         (5)         \$         (12)	Austriad   Green Unrailland   Green Unrailland	

	Amerized Cost	Gross Unrealized Gains	Gross Unrealized Losses	Estimated Fair Value			
Corporate debt securities	S 5,698	s —	\$ (1)	\$ 5,697			
	S 5,698	s	S (1)	S 5,697			

There were no goats redicted gains or losses from the table or maturity of marketable securities during 2018, 2017 and 2016, expectively.

During the years ended December 31, 2018, 2017 and 2016, we encogation grows interest income on securities of \$727,000, 5179,000 and \$251,000, expectively, losses from the same was included assessment was included assessment was included assessment of operations.

The contracted for value of investments by contractal maturity is an follows (on thousands).

		Decemi	ber 31,
	_	2018	2017
Due within one year	S	58,629	\$ 5,697
Total	<u>s</u>	58,629	\$ 5,697

6. Credit Facility

In Nicorabo 2012, we extend into a bear and executely agreement with a function institution, or the credit facility, allowing as to incur evolver between going of up to 7.0 million, or such locus amount equal to a present equal to a present equal to 1.25% to 7.5%, with the coast instruct such decisional by reference to a specified opening more. Accordance into a propolete mode in day of each month with all nationality howevering propolete on the materials the execution of the materials the horizontal as more equal to the prime or the coast of the coast of the horizontal as a second as a seco

In June 2017, we entered into a second amended and restated loan and security agreement for a period of 12 months. The aggregate revolver borrowings were \$15.0 million (subject to increase in \$35.0 million, based on the borrowings has excludation) through its mutarity date in June 2018.

Is how 2015, we reticed into a second amendment to the around amendment and contribed and contribed

		2018	2017			2016		
				*As Adjusted		*As Adjusted		
United States	S	169,643	S	137,563	s	102,017		
Foreign		39,901		23,412		10,600		
Total revenue	S	209,544	s	160,975	s	112,617		
Percentage of revenue generated outside of the United States		19%		15%	_	9%		

### See Note 1 for a summary of adjustments

Deferred Revenue and Performance Obligations

During the year ended December 31, 2018, 45% to 55% of revenue recognized was included in our deferred revenue balance at the beginning of the period.

Transaction Prior Allocard on the Remaining Proference Obligations
As of Uncerebre 11, 2018, approximately 50% of those remaining performance obligations over the sext 24 months, with the behave recognized thereofor.

Deferred commissions primarily consist of sales commissions that are capitalized as incremental contract origination costs and were \$19,600,000 and \$18,266,000 as of December 31, 2018 and 2017, respectively. For the years ended December 31, 2018, 2017 and 2016, amortization expense for defended commissions was \$10,000,000,\$7,231,000 and \$53,731,000, respectively, and here was an impriment of defended commissions during these periods.

# kholders' Equity

Canasac Stock

We had 200,000,000 shares of \$0,000 jps value common stock authorized as of December 31, 2018 and 2017. These were \$5,355,000 and \$0,900,241 common shares issued at December 31, 2018 and 2017, respectively. These were no shares of common stock held in treasury at December 31, 2018 and 2017, and 2017 are december 31, 2018 and 2017, respectively. These were no shares of common stock held in treasury at December 31, 2018 and 2017, and a share of common stock heads not share and a share of common stock heads shared not shared as a shared of contract of the shared of shared as a shared of contract of the shared of shared of shared as a shared of the shared of shared as a shared of the shared of shared as a shared of the shared of shared of shared of shared as a shared of the shared of shared of

Common Stock Harmants
In November 2012, we inseed a surrant to preclasse 70,000 shares of common stock in connection with the coolet facility. The warrant was fully exercisable with a two-year term and an exercise price of \$50.09 per share. This warrant was classified as a stockholders' equity on the facility of the control of the con

In April 2014, we issued the bader a second summat to purchase up to 33,332 shares of common stock in connection with an amendment of our order facility at an exercise price of \$4.47 per share, of which 16,666 were exercisable without contingency. The fair value of the summat on the date of grant was \$50,000 and was recorded as defound financing costs and recognized as interest expense over the term of the credit facility.

On February 2, 2016, warrants for 86,666 shares were exercised. At the lender's request, we withheld \$2,00 shares to cover the warrant exercise costs and issued 78,406 shares. In connection with the exercise of the warrant lability could to \$24,000 was reversed and recorded as additional just-in-capital.

In March 2018, the remaining outstanding warrants to purchase shares of common stock were executed due to the Company renognizating the terms of the restated tous and security agreement with the credit facility. There was an insignificant gain related to the extinguishment of men stock warrant liability which was recognized in other necessar (expense) on the consolidated attenues of operations.

The following table summarizes information about common stock warrants outstanding as of December 31, 2018 and 2017 (in thousands, except per share amounts):

The following table numariors information about common incide warrant outstanding and Discribed 31/10 in foundaries, except or that remains the following table information in foundaries of the following table in foundaries of the foundaries of the following table in foundaries of the foundation of the fo

H. Nacel-Based Compression

The 2010 Fear) because for major dealer the 2010 Fear was torontoned in connection with our IPO, and accordingly so shares are articled for insumer conder the 2010 Fear and increase in the past of insumer conder the 2010 Fear and increase in the past of insumer conder the 2010 Fear and increase in the past of insumer conder the 2010 Fear and increase in the past of insumer conder the 2010 Fear and increase in the past of insumer conder the 2010 Fear and increase in the past of insumer conder the 2010 Fear and increase in the past of insumer conder the 2010 Fear and increase in the past of insumer conder the 2010 Fear and increase in the past of insumer conder the 2010 Fear and increase in the 2010 Fear and increase in

The head of discount decisions the terms of each part of cases (part of cases), expension have a very law of part of head of head of part of head of head of part of head of h

In Sugary 2155, we have of discovered depth of the STEP to Explore The Product Part (Mr. 1997). On a decidation approach to ESPP. A Charles 215, which became efficiency to the late of the PS. A stand of 11331 became of the contract of the stand of the s

On each proclases date, displice employees will proclases our mode at a prior per shave enquit to \$5% of the locus of (1) the fair market when of our mixels on the efficient galax or (2) the fair market when of our mixels on the proclases of dates and the LEPP, with a single-block or enquire purpose per shave enquit to \$5% of the locus market with a \$1.500 or 200 or 200

		Year Ended December 31,	
	2018	2017	2016
Employee Stock Options			
Dividend yield	None	None	None
/olatility	46.02%46.57%	62.95%63.10%	65.87%
tisk-free interest rate	2.50%2.84%	2.12%2.30%	1.4%
expected life (years)	6.1	6.1—6.2	6.1
air value of common stock	\$16.39—\$20.57	\$12.93—\$13.37	\$13.79
imployee Stock Purchase Plan			
hvidend yield	None	None	None
folatility	33.94%45.46%	25.08%29.89%	46.95%—59.71%
isk-free interest rate	2.1%-2.38%	1.07%1.45%	0.35%0.60%
xpected life (years)	0.5	0.5	0.5
air value of common stock	\$38.14—\$42.65	\$27.00—\$33.90	\$18.43—\$20.05
The following two tables show stock-based compensation	expense by award type and where the stock-based compensation expense was re	corded in our consolidated statements of operations (in thousands):	

	Year Ended December 31,					
		2018		2017	_	2016
Options	S	2,867	s	3,806	S	4,102
Restricted stock units		17,560		9,969		4,561
Employee stock purchase plan		2,320		1,895		2,011
Total stock-based compensation	S	22,747	s	15,670	s	10,674
			Year	Ended December 31.		
		2018		2017	_	2016
Subscription and support cost of revenue	S	1,235	S	762	S	488
Professional services and other cost of revenue		975		596		474
Sales and marketing		6,022		4,331		3,030
Research and development		8,338		6,023		3,862
General and administrative		6,177		3,958		2,820
Total stock-based commensation		22.747		15.670		10.674

The following table summarizes the stock option activity for the year ended December 31, 2018 (in thousands, except per share amounts):

	Shares Underlying Options		Weighted- Average Exercise Price	Average Remaining Life (in years)		Aggregate Intrinsic Value
Outstanding at January 1, 2018	2,010	S	9.09	6.5	S	48,266
Granted	243		34.72			
Exercised	(845)		7.44			
Forfeited or cancelled	(105)		19.63			
Outstanding at December 31, 2018	1,303		14.09	6.5		30,552
Vested and expected to vest—December 31, 2018	1,303		14.09	6.5		30,552
Exercisable at December 31, 2018	970		9.25	5.9		27,418

	Shares Underlying Option	Average Grant Date Fair Value Per Share
Unvested at January 1, 2018	482	\$ 5.60
Granted	243	34.72
Vested	(362)	12.87
Forfeited	(97)	20.47
Unvested at December 31, 2018	266	16.89

The weighted-overage gased-date fair value of each option granted during 2018, 2017 and 2016 was \$4.72, \$21.83 and \$51.29, respectively. The total intrinsic value of options exercised was \$27,546,000, \$25,947,000, and \$512,214,000 during 2018, 2017 and 2016, respectively. The total fair value of options vested during 2018, 2017 and 2016 was \$2.779,000, \$42,94,000, \$4,877,000, respectively.

As of December 31, 2018 and 2017, we had \$45,200 and \$45,000, \$45,700, \$45,400, \$45,700, \$45,000, \$45,

	RSUs Out	standing	
	Shares	Weight Avera Grant Dat Value Per	age de Fair
Unvested and outstanding at January 1, 2018	1,515	s	22.88
Granted	1,177		40.32
Veited	(609)		24.90
Cancelled	(393)		28.99
Unvested and outstanding at December 31, 2018	1,690		32.87

			Year Ende	d December 31.		
	-	2018	*264	1917 Adjusted esysteds)		2016 ts Adjusted
Inited States	S	(38,205)	s	(35,176)	s	(37,59
oreign		(4,921)		(8,063)		(10,29
Total	S	(43,126)	S	(43,239)	S	(47,88)
The components of the provision (benefit) for income taxes were as follows:						
			Year Ende	d December 31.		
	-	2018	*264	1917 Adjusted esysteds)		2016 ts Adjusted
Current:			,			
Federal	s	_	S	_	s	-
State		35		27		
Foreign		192		215		18
Total		227		242		23
Deferred:						
Federal		6		(632)		2
State		2		(6)		
		104		241		5
Foreign		112		(397)		8 31
		339				

# INSTRUCTURE, INC. Notes to Consolidated Financial Statements tutory rate of 21% and the provision for income taxes:

				1	ear Ended December 31,		
	· · · · · · · · · · · · · · · · · · ·	2018			2017		2016
	•				"As Adjusted (in theurands)		*As Adjusted
Expected income tax benefit at the federal statutory rate		5	(9,056)	S	(14,700)	s	(16,275)
State tax net of federal benefit			(4,001)		(3,909)		(1,573)
Stock-based compensation			(4,426)		(10,202)		1,101
Stock warrant liability			(26)		32		(21)
Difference in foreign tax rates			(589)		1,152		1,408
Research and development credits			(2,236)		(1,636)		(552)
Change in valuation allowance			20,656		6,124		16,018
Change in tax rate			_		22,721		_
Other			17		263		211
Income tax provision (benefit)		5	339	s	(155)	S	317

	2018			2017		2016
				"As Adjusted (in theseands)		*As Adjusted
	S	78,356	s	61,954	s	53,851
		7,075		4,211		2,027
		2,644		1,558		2,760
		847		453		419
		2,377		1,986		2,310
		91,299		70,162		61,367
		(1,697)		(2,351)		(111)
		(5,159)		(4,738)		(4,756)
		(3,568)		(2,743)		(1,774)
		(10,424)		(9,832)		(6,641)
		(81,421)		(60,765)		(54,979)
	S	(546)	s	(435)	s	(253)

At December 31, 2018, we had \$78,356,000 in tax-effected federal, state and foreign net operating loss carryforwards that, if unused, begin expiring in 2019. Additionally, at December 31, 2018, we had \$11,506,000 in income tax credits, consisting primarily of federal and state arch and development tax credits. These tax credits, if unused, begin expiring in 2023.

the and development in credits. Desired to consist, a smooth, Evap coprings on 20.5.

We review all instance developments are credit for the years as well as our ability to generate income in future periods. We have provided a valuation more against our U.S. are defined because to achieve necessary of defined that as much including our recent losiney of accommission to some the finished of defined into account of the second of the s

US: income taxes on the additional carnings of our nov-US, subsidiaries have not been provided for as we currently plan to indefinitely reinvest those amounts and have the ability to do so. Camulative and intributed foreign carnings were not material a 1 December 31, 2018 and December 31, 2017.

We have federal research and development condit compformath of \$52,702,000 and \$527,573,000 at December 31, 2018 and 2017, respectively, which expire at various dates through 2018.

We have federal research and development condit compformath of \$53,000,000 at December 11, 2018 that expire at various dates through 2018. We also have date meanth and investment condit compformath of \$53,000,000 that expire at various dates through 2018.

The Tax Cats and Jobs Act was exacted on December 22, 2017 and the Company has evaluated in impact. The Act reduces the U.S. federal composet use rate from 35% to 21%, causing companies to results their deformed tax assets and deformed tax satests and deformed tax assets and deformed tax contribution to on earnings of certain foreign subsidiaries that were previously tox deformed and contents one toxes one certain foreign sourced earnings.

The Company recorded a revaluation of our deferred tax sustes and liabilities as of December 31, 2017, at the new federal rate of 21%, based upon balances in existence at the date of exactment. The provisional amount recorded related to the remeasurement of our deferred tax balance was \$24,762,000 with an equal offsect to valuation advance. We have now concluded our evaluation of the tax effects of the Tax Cales and John Act and determined that no changes to the provisional amount previously recorded is necessary.

The one-time transition tax is based on our total post-1996 earnings and profits (EAP) that we provisuely defended from 15 income taxes. We have not booked an amount for the one-time transition tax labelity because the Company is currently in an overall foreign less position for EAP proposes. No additional income taxon texts better these provided for any remaining underliabeled foreign earnings not adopte to the transition tax, a student could be underliable excess terms to be the currently in the contraction of the earlier transition to the additional income terms to the provided foreign earnings and the proposation. Determining the contract in an additional contract has been different to the high feeding we contract to the provided foreign earnings and the proposation. The transition is not additional contract his additional to the currently and the contraction of the contraction.

Executive Tea Politions

We accord for uncertainty in income taxes using a two-stop process. We first determine whether it is more likely than not that a tax position will be sustained upon examination by the tax authority, including resolutions of any related appeals or litigation processes, based on turbined most. It is any position ment the more likely-than-out recognition threshold in the measured to determine the amount of breefit to recognitive in the function in measured to the largest amount of breefit that is greater than 50% kiely of bring resilient extension.

			Yes	r Ended December 31,		
		2018		2017		2016
				"As Adjusted (in theseands)		*As Adjusted
Unrecognized benefit—beginning of the year	S	2,267	S	1,091	S	739
Gross increases (decreases)—prior period positions		_		_		_
Gross increases (decreases)—current period positions		1,760		1,176		352
Unrecognized benefit—end of period	S	4,027	S	2,267	S	1,091

All of the unrecognized has benefits decrease deferred has asset with a corresponding decrease to the valuation allowance. None of the unrecognized has benefits would affect our effective has rate of recognized in the fature.

We have decided to recognize interest and penalties related to uncertain the positions as a component of income tax expense. No interest or penalties have been recorded through December 31, 2018.

We do not expect any significant change in our surrequired has benefits within the next 12 months.

We file tax returns in the United States, the United Kingdom, Australia, the Netherlands, Hong Kong, Swedon, Humpary, Mexico. Beard and various state jurisdections. All of our tax years remain open to examination by major taxing jurisdections to which we are subject, as carryfeward arthritors generated in part years may still be adjusted upon examination by the Internal Revenue Service or state and foreign tax authorities of they have or will be used in finare period di.

12. For Value of Financial Instruments
The far value of fancian informment is the amount that could be received upon the sale of an asset or pad to transfer a labelity in an orderly transaction between market participant as the measurement date. Financial assets are marked to bed price; and financial labelities are market to offer price; A value measurement of the value framework on the first value framework of the first value framework on the first value framework of first value on a recenting basis as of December 31, 2018, were as follows (in thousands)

Assets:								
Money market funds	S	32,458	S	_	s	_	S	32,458
Corporate debt securities		_		31,973		_		31,973
U.S. Treasury bills		26,657		_		_		26,657
Total assets	\$	59,115	s	31,973	s		S	91,088
Liabilities:	_				_			
Contingent liability		_		-		20		20
Total liabilities	S		S		s	20	s	20
Assets and liabilities measured at fair value on a recurring basis as of December 31, 2017, we	ere as follows (in thousands):			Boombo	-11 3817			
	ere as follows (in thousands):	Lewi I		Decembe		Level 3		Total
Assets:	ere as follows (in thousands):					Level 3	_	
Assets: Money market funds	ere as follows (in thousands):	Level 1 14,046	s	Level 2		Level 3	s	14,046
Assets:	cere as follows (in thousands):		s	Level 2			s	
Assets: Money market funds	cre as follows (in thousands):	14,046	s	Level 2		_	s	14,046
Assets: Morey market funds Corporate debt securities	cre as follows (in thousands):	14,046	s s	Level 2 — 5,697		_	s s	14,046 5,697
Money market finals Composer debt securities Total sincis Linkillorie Common sincis trainis	cre as follows (in thousands):	14,046	s s	Level 2 — 5,697		- - - - 122	s s	14,046 5,697 19,743
Assets: Money market funds Copposite fields securities (admitted)	cre as follows (in thousands):	14,046 — 14,046	s s	5,697 5,697			s s	14,046 5,697 19,743
Money market finals Composer debt securities Total sincis Linkillorie Common sincis trainis	cre as follows (in thousands):	14,046 — 14,046	S S	5,697 5,697		- - - - 122	s s	14 19

The following able sets for has assumeny of the chunge in fair value adjustments for labelifies that are required to be marked-to-market. The common stock warrant were cauciful in March 2011, and the gain related to the excitagationest of the common stock warrant labelity used in other timent represent on the consolidated anteness or depositions. The change in fair value of the contingent labelity was recognized in general and administrative expense on the consolidated anteness of operations is. The following balance is measured at fair value on a sing inspiration arthroad hexport (Level 2) for incommonals;

Using Significant subservable Inputs (Level 3)
25
97
1,164
1,286
(122)
(1,144)
20

We have classified our liability for consignant consideration relating to our exquisition of Practice XYZ, Inc., which we closed in November 2017, within Level 3 of the fair value bicauchy because the fair value is determined using the Monte Carlo simulation model and ant nonhorm-like imputs neithing, forestant for bookings nitiment.

13. Commitments and Confesqueins

Lityation

We are envised in legal proceedings, including challenges to trademarks, from time to time arising in the normal course of business. Management beloves that the outcome of these proceedings will not have a material impact on our financial position, results of operations, or impacts.

Less Commitment

Less Commitment

We less office space orders non-exactability operating bears that contain rent evaluation classes and renewal options. We encaptain rent expense on a straight-line bears over the bears period and here accound for rent expense incurred but not paid. We are also committed to proy a portion of the real neutron of these bears agreement.

The Company entered attors are bears in fearly, Washington during the year ended December 31, 2018. The losse commences in Jamusy 2019 for a term of ten years ending to 2023, with one option to renew for an additional five-year period. The bear annual rent payment in \$700,000 and in subject to a neural next exaction of 27s.

F-29

Year Ended December 31:	Operation Leaves
2019	\$ 8,469
2020	8,53
2021	8,55:
2022	8,931
2023	8,431
Thereafter	23,61
Total	\$ 66,54

Seed expense under operating bases for 2015, 2017 and 2016 was \$7,423,000,3,5550,000 and \$44,600,000, respectively.

As of Documber 31, 2018, we had a vaid of \$23,730,000 in lotters of condition through Towards for office space. Those bitters of conditioners aroundly and expert at various dates through Towards 2027.

14. Employee Brandfi Plan

We sprease a qualified 401(s) defined contribution plan (the "401(s) Plan"), available to all qualified employees. The 401(s) Plan allows employees to contribute gross solary though provide delections up to the legally mandared limit based on their prinderion. The 401(s) Plan provide for mandating contributions open to 80% of each principal contribution, and to occur 651 (300 per participant arounds). Participants west in matching contributions over a fear-year general after a move-year differ west. The cost recognised for our contributions to the 401(s) Plan fear year and the Control 1, 102(s), 207 and 201(s) Plan fear year and the control 1, 102(s), 207 and 201(s) Plan fear year and the control 1, 102(s), 207 and 201(s) plan fear year and the control 1, 102(s), 207 and 201(s) plan fear year and the control 1, 102(s), 207 and 201(s) plan fear year and 1, 202(s), 202(s),

15. Related-Purty Transactions

We incurred \$9, 50 and \$20,000 for consulting services provided by a member of our board of directors during 2018, 2017 and 2016, respectively. We owned medium for such services at December 31, 2018 and 2017.

16. Selected Quarterly Financial Data (manditud)
The following tables set forth selected annualized quarterly consolidated statements of operations data for each of the eight quarters in 2018 and 2017 (in thousands except per share data)

								Three Mon	ths Ended											
		Dec. 31, 2018	_	Sept. 30, 2018	30, June 30, March 31, 8 2028 2028		Dec. 31, 2017		Dec. 31, 2017		2017		2017		Sept. 30, 2017 *An Adjusted		7 2017		March 31, 2017	
								(unan	dited) namds)											
Total revenues	S	56,251	S	55,239	S	50,063	S	47,991	\$ 44	,755	S	43,203	S	38,545	S	34,472				
Gross profit		39,129		39,101		35,465		34,006	31	.451		30,680		27,490		24,792				
Loss from operations		(8,259)		(11,956)		(12,425)		(12,133)	(10	(411)		(11,628)		(10,160)		(11,603)				
Net loss		(7,587)		(11,472)		(12,538)		(11,868)	(5	(744)		(11,471)		(10,268)		(11,601)				
Net loss attributable to common stockholders		(7,587)		(11,472)		(12,538)		(11,868)	(5	(744)		(11,471)		(10,268)		(11,601)				
Net loss per common share attributable to common steckholders, basic and diluted		(0.22)		(0.33)		(0.36)		(0.37)		(0.32)		(0.39)		(0.35)		(0.40)				

super at Events

Is Jamusy 2018; the number of shares authorized for the 2015 Equity Secretive Plan and 2015 Equityper Stock Parchase Plan necessarily 1,552,361 and 333,333, respectively, in connection with the annual automatic increases provided by those plans.

In February 2019, the Company signed an agreement in scapatic Perfolium, Inc., a student success planform, for the purposes of enhancing our learning measurement system and human capital measurement of efficiency.

Item 9. Changes in and Disagreements With Accountants on Accounting and Financial Disclosure.

None.

lies \$4. Custroh and Procedure.

Exclusions of disciouser controls and procedures. On management, with the participation of our Chief Executive Officer and Chief Financial Officer have evaluated our disclosure controls and procedures (as defined in Table 13)4-15(s) and 154-15(s) under the Securities

Exclusion of discinative controls and procedures (as defined in Table 13)4-15(s) and 154-15(s) under the Securities

Exclusion of Association Controls

Exclusion of Association

Exclusion of Association Controls

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Exclusion of Association Controls

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Based on management's columns, no process and the process of the p

Hances of the Joseph Service is a superquest. In solid methy decreases regulate quested decisions.

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Absenced Institution on the effectiveness of among control. The effectiveness of any system of moral control cover function (north properties, including the control limitations, technique for control of judgment in designing, implementing, specificing, and evaluating the effectiveness of the effectiveness of functions of the effectiveness of the effectiveness of functions of the effectiveness of effectiveness o

### PART III

- In the Norman Country Officers of Corporate Contracts.

  10 The Contract Contract of Contract of Contracts of Contracts of Contract of Cont

Item II. Exercitive Compensation.

The information required by this learn may be found under the sections entitled "Director Compensation," "Executive Compensation," "Executive Compensation Discussion and Analysis" and "Equity Compensation Plan Information" appearing in the 2019 Press Statement Analysis and "Equity Compensation Plan Information" appearing in the 2019 Press Statement Analysis and "Equity Compensation Plan Information" appearing in the 2019 Press Statement Analysis and "Equity Compensation Plan Information" appearing in the 2019 Press Statement Analysis and "Equity Compensation Plan Information" appearing in the 2019 Press Statement Analysis and "Equity Compensation Plan Information" appearing in the 2019 Press Statement Analysis and "Equity Compensation Plan Information" appearing in the 2019 Press Statement Analysis and "Equity Compensation Plan Information" appearing in the 2019 Press Statement Analysis and "Equity Compensation Plan Information" appearing in the 2019 Press Statement Analysis and "Equity Compensation Plan Information" appearing in the 2019 Press Statement Analysis and "Equity Compensation Plan Information" appearing in the 2019 Press Statement Analysis and "Equity Compensation Plan Information" appearing in the 2019 Press Statement Analysis and "Equity Compensation Plan Information" appearing in the 2019 Press Statement Analysis and "Equity Compensation Plan Information" appearing in the 2019 Press Statement Analysis and "Equity Compensation Plan Information" appearing in the 2019 Press Statement Analysis and "Equity Compensation Plan Information" appearing in the 2019 Press Statement Analysis and "Equity Compensation Plan Information" appearing in the 2019 Press Statement Analysis and "Equity Compensation Plan Information" appearing and "Equity Compensation Plan Inform

- | Rest 12. Security Ownership of Certain Resulted Owners and Management and Richard Struckholder Matters.

  | The information required by the Time with respect to security ownership of Certain Resulted Owners and Management' appearing in the 2019 Pressy Statement. Such information recognized Develops by Certain Resulted Owners and Management' appearing in the 2019 Pressy Statement. Such information recognized Develops by Certain Resulted Owners and Management' appearing in the 2019 Pressy Statement. Such information in accompanied Developeration Plant Information' appearing in the 2019 Pressy Statement. Such information in accompanied National Plant Statement Results of Time Statement R

- | Ross 12. Certain Relationships and Related Transactions, and Bereter Independence.

  (1) The information required by this lum concerning related purty transactions may be found under the section entitled "Transactions with Related Persons" appearing in the 2019 Proxy Statement. Such information is incorporated herein by reference.

  (2) The information required by this lum concerning detects independence may be found and the tis section entitled "Transactions with Related Persons" appearing in the 2019 Proxy Statement. Such information is incorporated herein by reference.

  (3) The information required by this lum concerning detection independence on the Related of Directors and Companies Concerning—Independence of the Board of Directors and Companies Concerning Concernin

Item 14. Principal Accounting Fees and Services.

The information required by this them may be found under the section entitled "Proposal No. 3—Radification of Sedection of Independent Registered Public Accounting Firm" appearing in the 2014 Prices Statement Such information is incorporated herein by reference.

	-		Incorporated by Reference			
Exhibit Number	Description	Schodule Form	File Number	Exhibit	Filing Date	Filed Herewith
2.1†±	Agreement and Plan of Merger, by and among the Registrant and Praxis Merger Sub I. Inc. Praxis Merger Sub II. LLC. Practice XYZ. Inc. and Entangled Ventures. LLC, dated November 22, 2017.	10-K	001-37629	2.1	February 15, 2018	
3.1	Amended and Restated Certificate of Incorporation,	8-K	001-37629	3.1	November 18, 2015	
3.2	Amended and Restated Bylaws,	S-1	333-207349	3.4	October 9, 2015	
4.1	Form of Common Stock Certificate	S-1	333-207349	4.1	November 2, 2015	
10.1	Form of Indemnity Agreement by and between the Registrant and its directors and officers,	S-1	333-207349	10.2	October 9, 2015	
10.2+	2010 Equity Incentive Plan and Forms of Incentive Stock Option Agreement and Nonqualified Stock Option Agreement.	S-1	333-207349	10.3	November 2, 2015	
10.3+	2015 Equity Incentive Plan.	S-1	333-207349	10.4	November 2, 2015	
10.4+	Form of Stock Option Agreement Notice of Exercise and Stock Option Grant Notice under the 2015 Equity Incentive Plan.	10-Q	001-37629	10.1	May 6, 2016	
10.5+	Form of Restricted Stock Unit Grant Notice and Restricted Stock Unit Award Agreement under the 2015 Equity Incentive Plan.	S-1	333-207349	10.6	October 9, 2015	
10.6+	2015 Employee Stock Purchase Plan	S-1	333-207349	10.7	November 2, 2015	
10.7+	Form of Executive Agreement by and between the Registrant and its officers.	S-1	333-207349	10.8	October 9, 2015	
10.8+	Non-Employee Director Compensation Policy	S-1	333-207349	10.9	October 23, 2015	
10.9	Lease Agreement by and between the Registrant and Old Mill Building IV, LLC, dated October 2, 2012.	S-1	333-207349	10:10	October 9, 2015	
10.10	First Amendment to Lease Agreement by and between the Registrant and Old Mill Building IV. LLC. dated October 30, 2014.	S-1	333-207349	10.11	October 9, 2015	
10.11	Lease Assumption Agreement by and between the Registrant and Old Mill Building IV, LLC, dated August 11, 2015,	S-1	333-207349	10.12	November 2, 2015	
10.12	Second Amended and Restated Loan and Security Agreement by and between the Registrant and Silicon Valley Bank, dated June 22, 2017.	10-Q	001-37629	10.1	August 2, 2017	
	90					

Exhibit Number	Description	Schodule	File Number	Exhibit	Filling Date	Filed Herewith
		Form				Filed Increwith
10.13	Warrant to Purchase Common Stock issued to Silicon Valley Bank, dated April 1, 2014.	S-1	333-207349	10.14	October 9, 2015	
10.14	Lease Agreement by and between the Registrant and Valley Grove LLC, dated November 10, 2016.	8-K	001-37629	10.1	November 15, 2016	
10.15	Offer Letter by and between Registrant and Dan Goldsmith, dated May 4, 2018.	10-Q	001-37629	10.1	August 1, 2018	
10.16	First Amendment to the Second Amended and Restated Loan and Security Agreement by and between Registrant and Silicon Valley Bank, dated March 30, 2018.	10-Q	001-37629	10.2	August 1, 2018	
10.17	Second Amendment to the Second Amended and Restated Loan and Security Agreement by and between Registrant and Silicon Valley Bank, dated June 28, 2018.	10-Q	001-37629	10.3	August 1, 2018	
23.1	Consent of Independent Registered Public Accounting Firm.					X
31.1	Certification of Periodic Report by Principal Executive Officer under Section 302 of the Surbanes-Oxley Act of 2002.					X
31.2	Certification of Periodic Report by Principal Financial Officer under Section 302 of the Surbanes-Oxley Act of 2002.					X
32.1 *	Certification of Chief Executive Officer and Chief Financial Officer Pursuant to 18 U.S.C. Section 1350 as Adopted Pursuant to Section 906 of the Surbanes-Oxley Act of 2002.					x
101.INS	XBRI. Instance Document					X
101.SCH	XBRL Taxonomy Extension Schema Document					X
101.CAL	XBRL Taxonomy Extension Calculation Linkbase Document					X
101.DEF	XBRL Taxonomy Extension Definition Linkbase Document					X
101.LAB	XBRL Taxonomy Extension Label Linkbase Document					X
101.PRE	XBRL Taxonomy Extension Presentation Linkbase Document					X

- Indicate management contract or componatory plan.

  December has been fermiond, as not descend find and as not to be incorporated by reference into any of the Company's liftings under the Securities Act of 1933, as amended, or the Securities Exchange Act of 1934, as amended, in respective of any general incorporation language.

  The Stackholes and certain which has the Agreement and Plan of Megaz how been contined pursuant to him foll (h/h2); of Regulation S.K. Instructure beerly agrees to femind supplementably a copy of any omitted decided excluded to the Commission upon request.

  Cantification treatment has been obtained for certain provisions omitted from this Exhibit pursuant to Reld 406 promalgated under the Securities Act. The control information has been filed apparately with the Securities and Exchange Commission.

# Item 16. Form 10-K Summary Not applicable.

Date: February 20, 2019

FOWER OF ATTORNEY

Kow Au Plasors By Tassi Plassers, the each person whose signates appears below constitutes and appoints Dated Coldenials, Storas B. Kannisky and Mathew A. Karniser, or each of them, as his true and lareful attency-io-fact and agents, each with the full power of substitution, for its man did not income, these or reads in any and if appears, each with the full power of substitution, for its man did not income, these or reads in any and if appears and Endurge Commission, bothly raisifying and confirming all that other shall attency-in-fact, are related to a substitution of the surprise and Endurge Commission, bothly raisifying and confirming all that other shall attency-in-fact, are related to a substitution of the surprise and any and a substitution of the surprise and in the experience and on the dates indicated.

Signature	Title	Date
/s/ Daniel Goldsmith Daniel Goldsmith	Chief Executive Officer and Director (Principal Executive Officer)	February 20, 2019
/s/ Steven B. Karninsky Steven B. Karninsky	Chief Financial Officer (Principal Financial and Accounting Officer)	February 20, 2019
/s/ Joshun L. Coates Joshun L. Coates	Director	February 20, 2019
/s/ Steven A. Collins Steven A. Collins	Director	February 20, 2019
% William M. Conroy William M. Conroy	Director	February 20, 2019
% Ellen Levy Ellen Levy	Director	February 20, 2019
/s/ Kevin Thompson Kevin Thompson	Director	February 20, 2019
/s/ Lloyd G. Waterhouse Lloyd G. Waterhouse	Director	February 20, 2019

CONNENT OF INDEPENDENT REGISTREED PFRICE ACCOUNTING FIRM

We emented to the incorporation by reference in the following Registration Statements:

1. Registration Statement or Front 3-10, to 3.13-22399 (Signature) upon the Instructure, line, shelf registration statement for the safe of common mode,

2. Registration Statement for Front 3-10, to 3.13-22399 (Signature) upon the Instructure, line, 2016 (Equit) Journality of the Statement Prime and 2015 Equity Journality Prime Prime and 2015 Equity Journality Prime Prime Prime and 2015 Equity Journality Prime Prime Prime and 2015 Equity Journality Prime Prime and 2015 Equity Journality Prime Prime and 2015 Equity Journality Prime Prime Prime and 2015 Equity Journality Prime Prime and 2015 Equity Journality Prime Prime and 2015 Equity Journality Prime Prime and 2015 Equity Journality Prime Prime Prime and 2015 Equity Journality Prime Prime and 2015 Equity Prime Prime Prime and 2015 Equity Prime Prime and 2015 Equity Prime Prime Prime and 2015 Equity Prime Prime Prime and 2015 Equity Prime Prime Prime and 2015 Equity Prime Prime and 2015 Equity Prime Prime and 2015 Equi

Salt Lake City, UT February 20, 2019

Exhibit 31.1

### CERTIFICATION PURSUANT TO RULES 13a-14(a) AND 154-14(a) UNDER THE SECURITIES EXCHANGE ACT OF 1934, AS ADOPTED PURSUANT TO SECTION 302 OF THE SARBANES-OXLEY ACT OF 2002

1. There reviewed this Annual Report on Forn 16-K of Instructure, Inc.;
2. Based on my Isomeladge, this report does not contain any untrue statement of a material fact or omit to state a material fact occurring to make the statements made, in light of the circumstances under which such statements were made, not miskeding with respect to the period cornell by this report.

Based on yellow place, the function determents, and other financial information included in this report, fairly precent in all material respects the function condition, results of operations and cosh flows of the registeral as of, and for, the periods precented in this report. The registeral's effect configuration of the registeral as of, and for the registeral as of, and for, the periods precented in this report.

The registeral's effect configuration of the registeral as of, and for the registeral as of, and the registeral as

(a) Designed such disclosure controls and procedures, or cassed such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those cettice, particularly during the persiod in which this report is being prepared;

(b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial reporting and

statements for extrant proposes in aconductor with grounds according projection.

(a) Evaluate describemens of the registrating Assume amounts and questioned and prosted and no fine coport our conclusions about the effectiveness of the state of the prosidence and prosted in the coport our conclusions and the effectiveness of the disclosure controls and procedures, as of the end of the prosidence control by this report has not exceeded by the expert of the coport of the copo

/s/ Daniel Goldsmith
Daniel Goldsmith
Chief Executive Officer
(Principal Executive Officer)

### CERTIFICATION PURSUANT TO RULES 13a-14(a) AND 154-14(a) UNDER THE SECURITIES EXCHANGE ACT OF 1934, AS ADOPTED PURSUANT TO SECTION 302 OF THE SARBANES-OXLEY ACT OF 2002

- I have reviewed this Annual Report on Form 10-K of Instructure, Inc.;
- 1. Intertexent to a cuttor appeal on term to be or interdampea.

  2. Based on by howbeigh, this report does not contain any untrue attendent of a material fact or omit to nate a material fact necessary to make the natements made, in light of the circumstances under which such statements were made, not mideading with respect to the period currently by the report.
- Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report,
- 4. The registrant's other centifying officer and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13s-15(c) and 15d-15(c)) and internal control over financial reporting (as defined in Exchange Act rules 13s-15(c)) and 15d-15(c)) and internal control over financial reporting (as defined in Exchange Act rules 13s-15(c)) and 15d-15(c)) and internal control over financial reporting (as defined in Exchange Act rules 13s-15(c)) and 15d-15(c)) and 15d-15(c)) and 15d-15(c) and 15d
  - (a) Dispets and disclosure cuttoris and procedures, or caused such data proposed as continued or continued and procedures and procedures and continued cuttoris and continued cuttoristics and continued cuttoristics
  - (c) Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions shout the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation, and
  - (4) Discional in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or in reasonably likely to materially affected, an expensive internal control over financial reporting and
  - Hely to mentality efficie for frequents' sometiment of the registers' is based of detection (or persons personning the equivalent functions).

    (a) All significant efficiencies and natural weaknesses in the change or operation of internal control over funcacial reporting which the reasonably highly to adversely affect the registers' is ability to record, precess, assumation and report funcacial information, and (b).

    (b) Any fund, whether or not material, that involves management or other employees who have a significant role in the registerst' internal control over funcacial reporting.

    (b) Secretal Examinally

    Secretal Examinally

    (Principal Funcacial and Accounting Officer)

Exhibit 32.1

### CERTIFICATION PURSUANT TO 18 U.S.C. SECTION 1350, AS ADOPTED PURSUANT TO SECTION 906 OF THE SARBANES-OXLEY ACT OF 2002

Framework of the registerest set forth in Red. 12s-14b) of the Securities Exchange Act of 1914, as assented the "Exchange Act of 1914, as assented to the order to the ten the base before the ten to the company", as who the Company", as who this Confidence is a standard as Exhibit 2.1, fully complete with the expansions of Section 10(a) of Section 10(b) of the Exchange Act, and a standard regrets the resonant and as Exhibit 2.1, fully complete with the expansions of Section 10(a) of Section 10(b) of the Exchange Act, and a standard regrets the resonant and as Exhibit 2.1, fully complete with the expansions of Section 10(a) of Section 10(b) of the Exchange Act, and a standard regrets the section 10(b) of the Exchange Act, and a standard regret the section 10(b) of the Exchange Act, and a standard regret the section 10(b) of the Exchange Act, and a standard regret the section 10(b) of the Exchange Act, and a standard regret the section 10(b) of the Exchange Act, and a standard regret the section 10(b) of the Exchange Act, and a standard regret the section 10(b) of the Exchange Act, and a standard regret the section 10(b) of the Exchange Act, and a standard regret the section 10(b) of the Exchange Act, and a standard regret the section 10(b) of the Exchange Act, and a standard regret the section 10(b) of the Exchange Act, and a standard regret the section 10(b) of the Exchange Act, and a standard regret the section 10(b) of the Exchange Act, and a standard regret the section 10(b) of the Exchange Act, and a standard regret the section 10(b) of the Exchange Act, and a standard regret the section 10(b) of the Exchange Act, and a standard regret the section 10(b) of the Exchange Act, and a standard regret the section 10(b) of the Exchange Act, and as

"This certification accompanies the Annual Report to which it relates, is not deemed filed with the Securities and Exchange Commission and is not to be incorporated by reference into any filing of Instructure, loc. under the Securities Act of 1931, as amended, or the Securities Exchange Act of 1934, as amended (whether made before or a filter the date of the Annual report), irrespective of any general incorporation language contained in such filing."