

Using Analytics To Deliver Engaging Courses

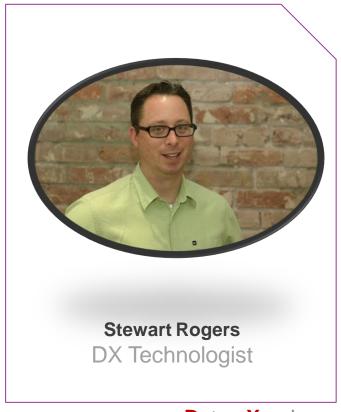
Stewart Rogers VP, Products Lambda Solutions





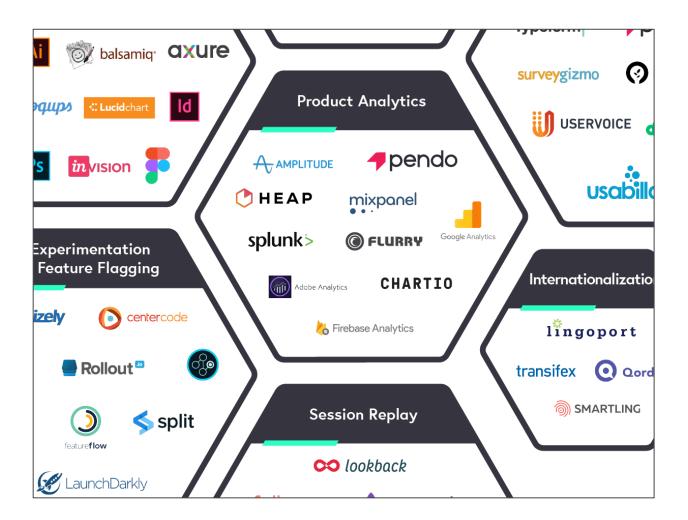




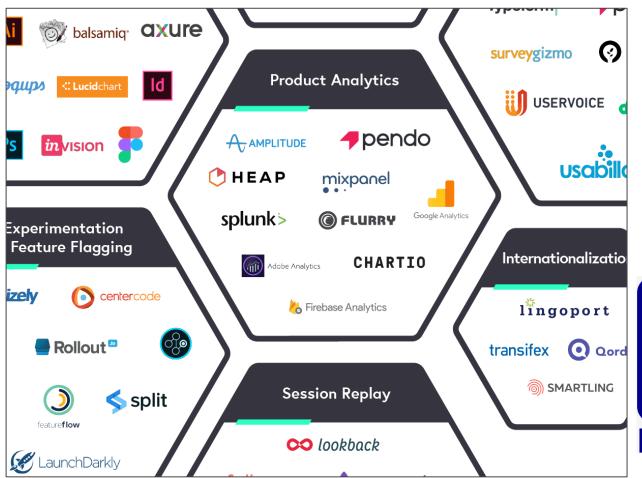


Data e**X**perience





my world



my world



using analytics to deliver engaging courses



agenda

- What is Course Engagement?
- Why is Course Engagement Important?
- How do you measure Course Engagement?

CALVIN AND HOBBES

by Bill Watterson





which Ims are you using? (poll)

- Moodle
- Totara
- Cornerstone OnDemand
- SumTotal Systems
- Other

are you measuring engagement? (poll)

- Yes
- No

are you measuring engagement? (poll)

- Yes
- No



What indicators do you believe best measure course engagement?



what blocks you from measuring engagement?

```
24% Access to data34% Insufficient analytical skills30% Inadequate reporting and analytics software
```

12% Nothing

measuring customer feedback

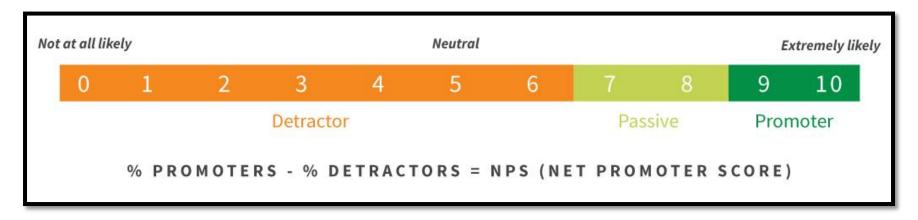


engagement: collecting feedback

- Reaction The degree to which participants find the training favorable, engaging and relevant to their jobs.
- Strategies Something measurable and something actionable.
- Measurable Scales, ratings, emojis, NPS
- Actionable Open-ended text to written feedback

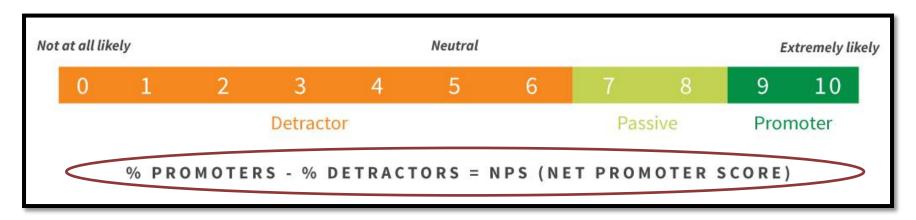
engagement: net promoter score (nps)

How likely is it that you would recommend this course to a colleague?



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engagement: net promoter score (nps)

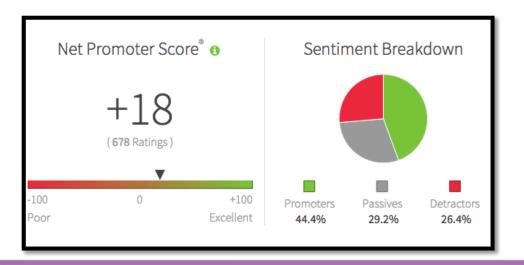
How likely is it that you would recommend this course to a colleague?

- Score of 8 or lower: Thanks! What can I improve to score a 9 or 10?
- Score of 9 or 10: Thanks! What would you tell your colleague?

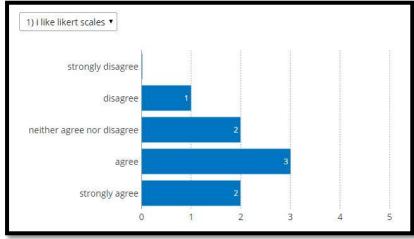
Is there anything else you would like to tell me?

using analytics to measure reaction

- External Online Surveys
- Paper-based feedback



- Excel pivot tables & charts
- Survey reports



engagement: measuring feedback (Thalheimer)

However...



engagement: measuring feedback (Thalheimer)

- "Getting Radically Improved Data from Learner Evaluations" by Will Thalheimer, PhD → worklearning.com
- His research shows that "Smile Sheets" are weak indicators.
- Likert-like Scales provide <u>poor</u> Data

Source → worklearning.com/add/stuff-from-will



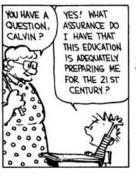
engagement: measuring feedback (cont'd)

- Avoid using Likert-scales and average scores
- Use textual scales and show counts/percentages of respondents





measuring customer engagement

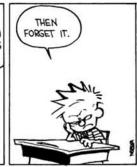


AM I GETTING THE SKILLS I'LL NEED TO EFFECTIVELY COMPETE IN A TOUGH, GLOBAL ECONOMY? I WANT A HIGH-PAYING JOB WHEN I GET OUT OF HERE! I WANT OPPORTUNITY!



IN THAT CASE, YOUNG MAN, I SUGGEST YOU START WORKING HARDER. WHAT YOU GET OUT OF SCHOOL DEPENDS ON WHAT YOU PUT INTO IT.







why is course engagement important

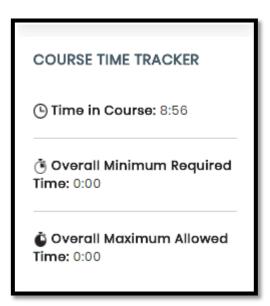
Helps you...

- understand Learner needs and expectations
- identify 'at risk' Learners
- build changes to prevent Learner 'failure'
- increase retention and identify future courses
- identify user experience (UX) problems
- identify where to invest in the future

Not to be confused with Employee Engagement.

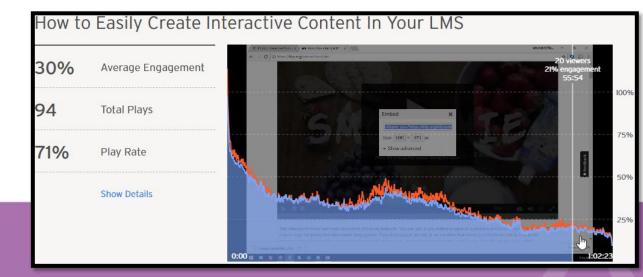
what should I measure - the basics

- Page or Resource Views
- Submissions
- Time Spent



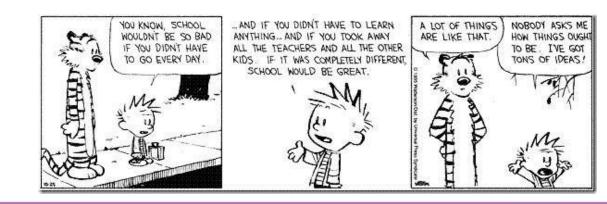
what should I measure - the intermediates

- Video analytics
- Forum analysis



how do you measure course engagement

- Google Analytics
- LMS Reporting
- Exports for Excel
- General BI Solutions



what data should I ask for

- User profile
- Course or Activity attributes
- Dates
- Log / Event based data

- Filtering
- Segmenting
- Summarizing

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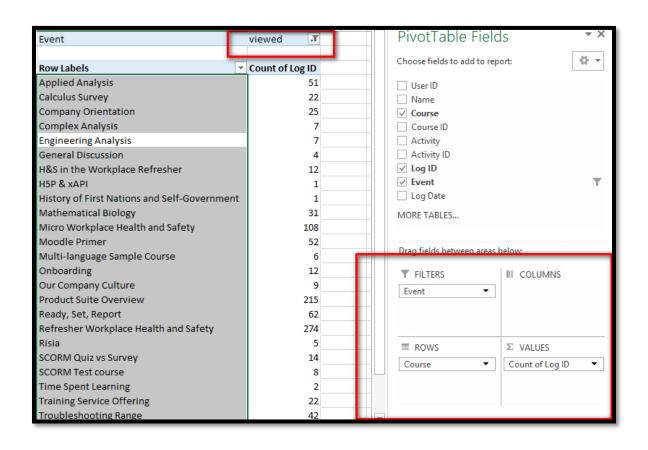
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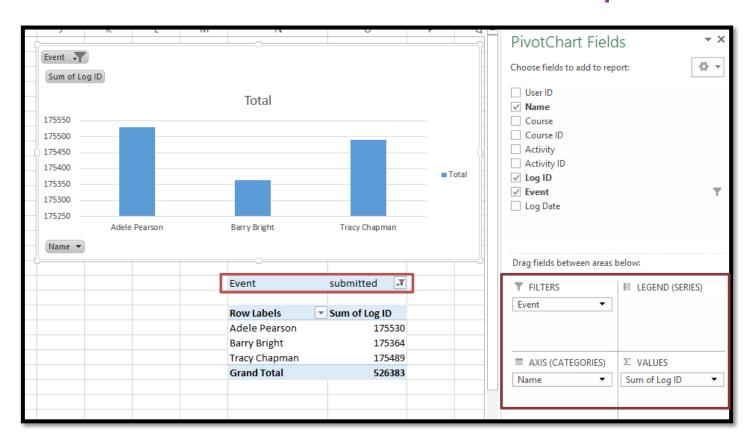
- Filtering
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User ID	Name	Course	Course ID	Activity	Activity ID	Log ID	Event	Log Date
1234	Steve	History	976	Quiz	345	123,123	Viewed	05-Feb-18

what data should I ask for - as a pivot table



what data should I ask for - as a pivot chart



some Zoola examples

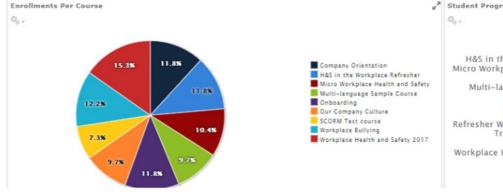
Engagement Dashboard

Troubleshooting Range

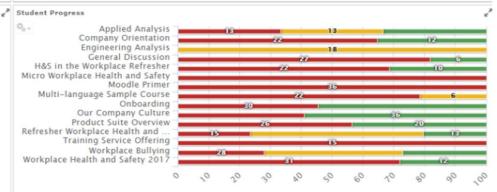


185





07:47:02



some Zoola examples

Top 10 Most Engaged Courses Report

Course	Views	Forum Posts	Submits	Time
Refresher Workplace Health and Safety	1,242	4	21	85:29:57
Workplace Bullying	1,208	7	26	78:35:30
Micro Workplace Health and Safety	837	2	16	58:04:13
Product Suite Overview	482	15	66	28:59:45
Workplace Health and Safety 2017	434	0	7	33:31:32
Moodle Primer	316	1	17	21:00:48
H&S in the Workplace Refresher	301	0	0	25:39:40
Ready, Set, Report	201	0	52	22:47:53
Training Service Offering	191	0	2	04:23:06
Troubleshooting Range	185	1	3	07:47:02

avoiding vanity analytics



what are analytics

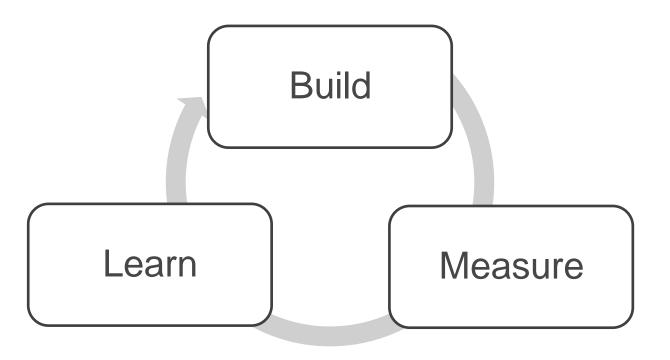
" Analytics is the discovery, interpretation, and communication of meaningful patterns in data."

https://en.wikipedia.org/wiki/Analytics

" Learning analytics is the measurement, collection, analysis and reporting of data about learners and their contexts, **for purposes of understanding and optimizing learning** and the environments in which it occurs."

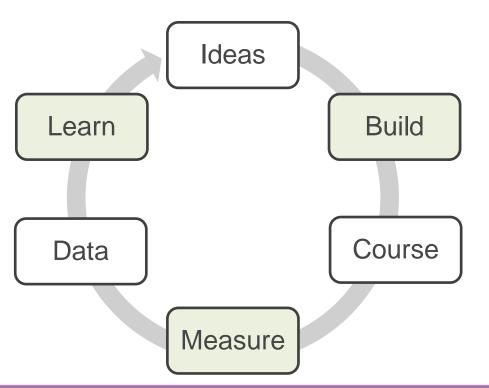
https://en.wikipedia.org/wiki/Learning_analytics

lean startup methodology - the feedback loop



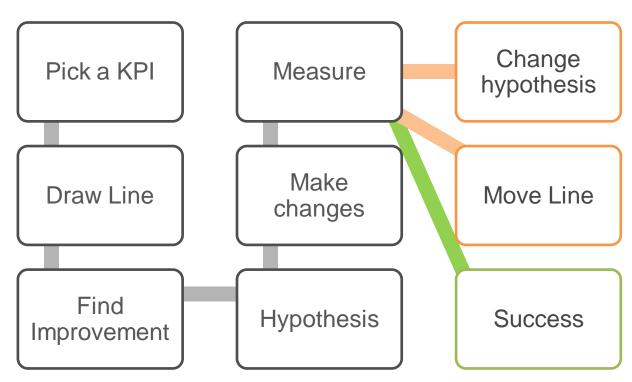


lean learning analytics

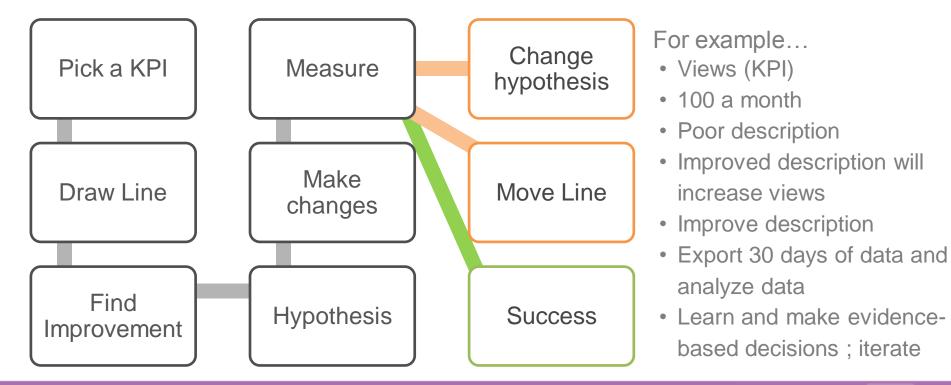


- Develop hypothesis (ideas)
- Build (or update) courses
- Release (course)
- Measure (collect) results
- Analyze data
- Learn and make evidencebased decisions; iterate

lean learning analytics process



lean learning analytics process



to recap

Qualitative measure

- Measure Reaction with a measurable and actionable oriented survey
- Summarize your results and action the feedback

Quantitative measure

- Pick a KPI and draw a line
- Determine hypothesis (by changing Y, it will impact N)
- Apply your analytics (acquire data, analyze data, review results)
- Learn (Success, Iterate, Cancel)

about lambda solutions

Lambda Solutions is a full service agency focused on reducing the cost of your training. Lambda offers open source learning management systems - Totara & Moodle. By managing your system in the most powerful and secure cloud hosting environment, Lambda reduces your IT operating costs by more than 40% and with expertise from over 600 implementations, our HelpDesk ensures efficient setup so your time to use is within weeks not months. Perform Learning Analytics to prove the impact and ROI of your training with award winning Zoola Analytics, a reporting and analytics solution for Totara, Moodle & xAPI conformant systems.









using Moodle, Totara, or are you interested in xAPI course engagement analytics?

visit → www.zoola.io



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any questions



Thank you

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