

Learning analytics in educational practice

A better understanding of the learning process, targeted feedback to students and, ultimately, an improvement in education: that's the thinking behind learning analytics.

Learning analytics offers a wealth of opportunities, but how can it be applied successfully by a study programme or teacher? It all hinges on how learning analytics is applied in educational practice.



SURFNET EXPERIMENT

SURFnet is conducting a learning analytics experiment in order to gain hands-on experience of learning analytics in conjunction with teachers and educational developers from a number of different institutions. SURFnet has developed a learning analytics infrastructure, an environment that institutions can use for experimental purposes.

THE EXPERIMENT ANSWERS THE FOLLOWING QUESTIONS

Which material is used frequently?

When does the student perform the learning activities?

Has the student submitted the assignment(s) and, if so, when?

How often does the student complete an interim assessment in a subject?

Does the student monitor their progress?

LEARNING ANALYTICS IN 4 STEPS

Ask the question you want to find the answer to.
Which material is used frequently?

Environment INSTITUTION

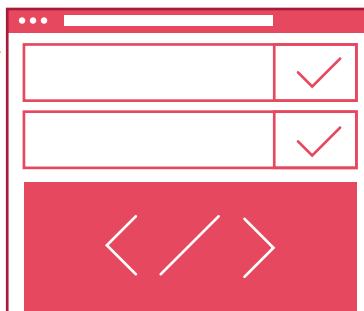


- 1 What data needs to be collected? For example, a teacher has their course material online and wants to know how often a video is viewed.

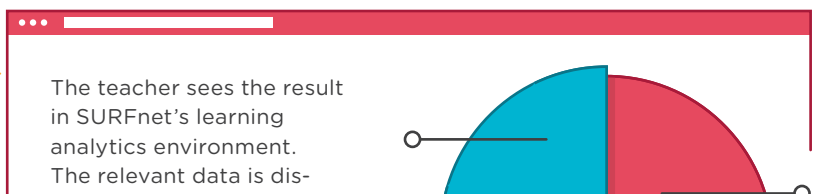


- 3 The teacher inputs the embedded code in their own system. The learning activity can be measured using a simple JavaScript code.

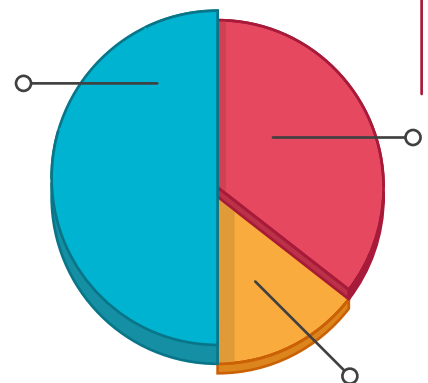
Environment SURFNET



- 2 A teacher completes the recipe associated with the question in SURFnet's learning analytics environment and receives an embedded code for this learning activity.



- 4 The teacher sees the result in SURFnet's learning analytics environment. The relevant data is displayed. The teacher can use this information to decide whether or not to take action with regard to their students or to make changes to their teaching material.



GETTING STARTED WITH LEARNING ANALYTICS

Getting started with learning analytics essentially involves jumping in at the deep end.

LEARN MORE ABOUT LEARNING ANALYTICS

www.surf.nl/learninganalytics