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Integrating (M)OOCs into teaching - from the  
MOOC canvas and the didactic application  
scenarios in (higher education) teaching



1.12.2021 | FH Graubünden  
Adj.-Prof. PhD Martin Ebner

fbr.io/ FB 

Feedback

fbr.io/ FB

MooC

nooc?

MOOC

Massive Open Online Course



# MOOC

M = „massive“ = for many

O = „open“ = From free access to  
Open Educational Resources

O = „online“

C = „course“ = structured





# iMooX

Österreich lernt online, egal wo und wann

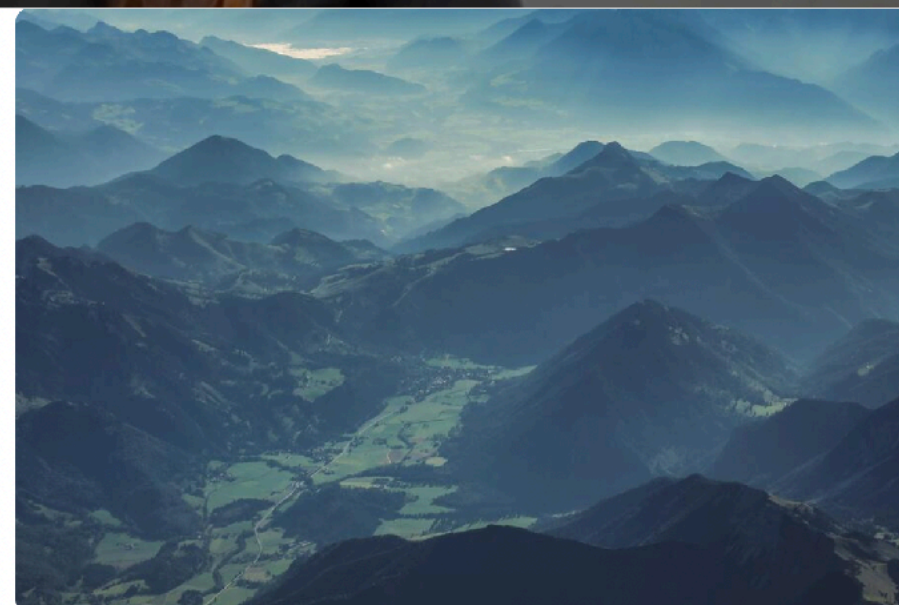
🔍 Kurse suchen...

## Kostenlose Online-Kurse

Bilden Sie sich mit unserem umfassenden Angebot an kostenlosen Online-Kursen weiter:

- ✓ Offen lizenzierte Kurse
- ✓ Barrierearme Kurse
- ✓ Mehrsprachige Kurse

iMooX folgen:



<http://imoox.at>

DE

Self-study

**Digitale Kompetenzen für Studienanfänger:innen**

Graz University of Technology



EN

Self-study

**Bayesian probability theory**

Graz University of Technology



DE

Self-study

**Distance Learning MOOC - 2. Durchgang**

Online Campus Virtual PH



DE

Self-study

**Lehren und Lernen mit digitalen Medien I**

Graz University of Technology, Private University College of Teacher ...







My course:

My courses

Bayesian probability theory

Graz University of Technology

Bayes' team

0% completed



Course playlist



Forum



Announcements



Unit 1

Bayesics of probability theory



Unit 2

Discrete probability distributions and samples



Unit 3

Multivariate distributions



Unit 4

Combinatorics - the art of counting



Unit 5

Odyssey and stochastic processes



Unit 6

Bayesian deep reasoning



Unit 7

Parameter and model estimation and classification



Unit 8

Continuous probability distributions and invariance

fbr.io/ FB

## Bayesian probability theory



### Bayesics of probability theory

Graz University of Technology

Bayes' team

Content

More

Turn editing on



### Unit 1

Bayesics of probability theory

**Restricted** Available from 4 March 2021

Welcome on board 🐦

Join Captain Bayes with her first adventure 🧭 in the video below 📌



[BAYES] Episode 1: The random compass

118

3m25s

5

I am so enthusiastic about this idea, I shall be delighted to learn what you think about th



# MooC

A MOOC can simply described as an  
**open online course** based on videos.

MooC

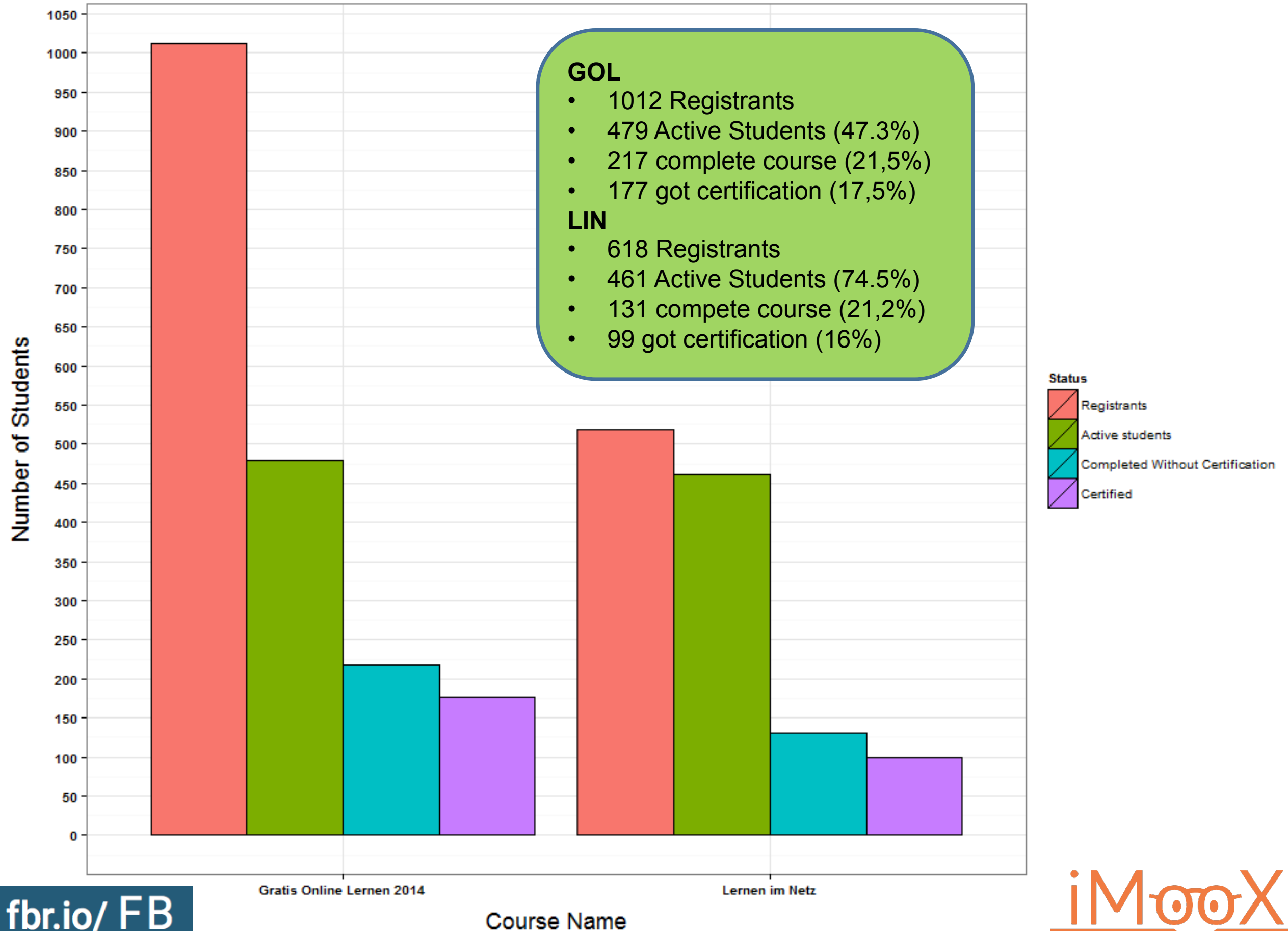
What did we know about MOOCs?

Broad Audience

# Nythos DropOut



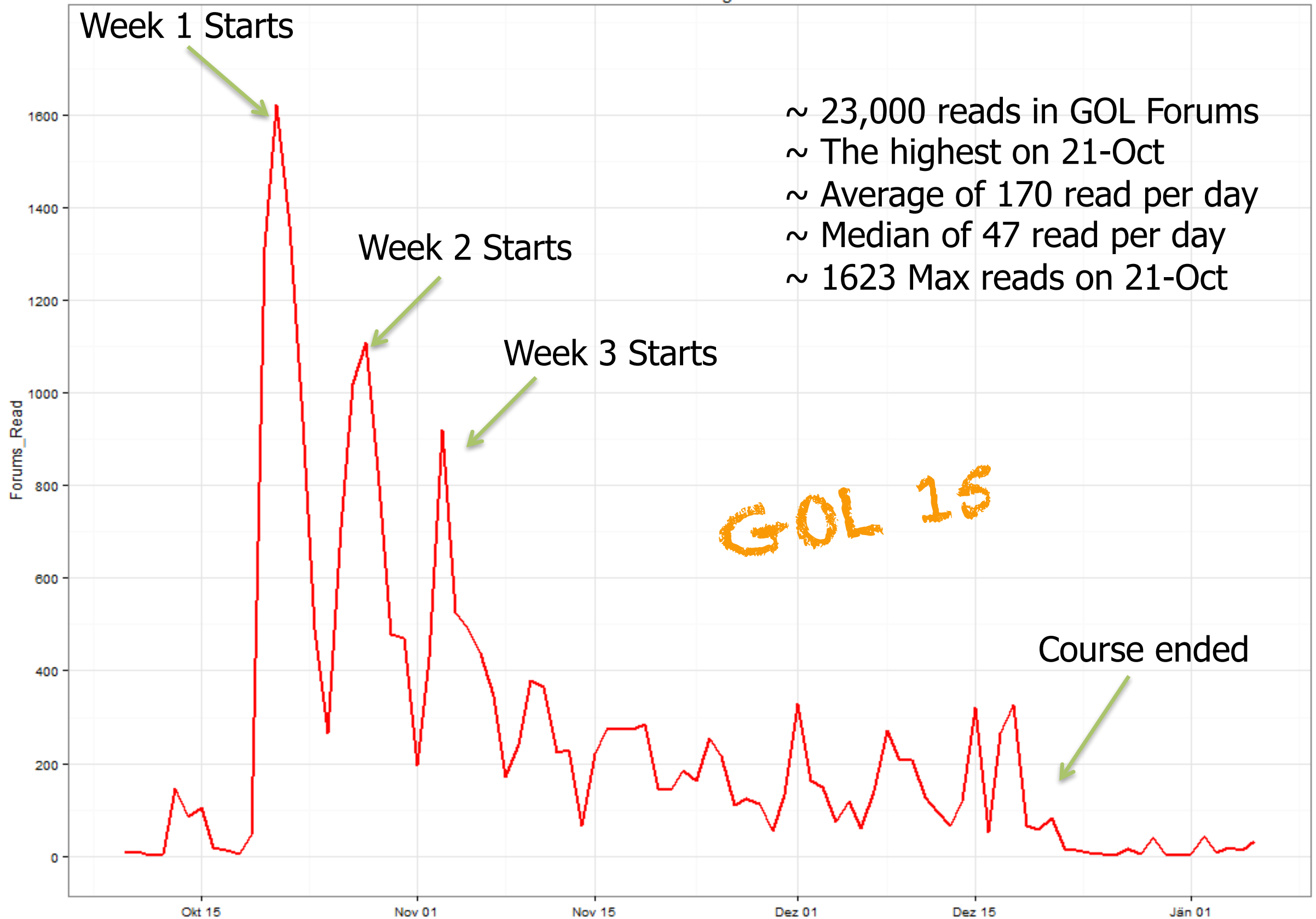
## Students Summary in the Three MOOCs



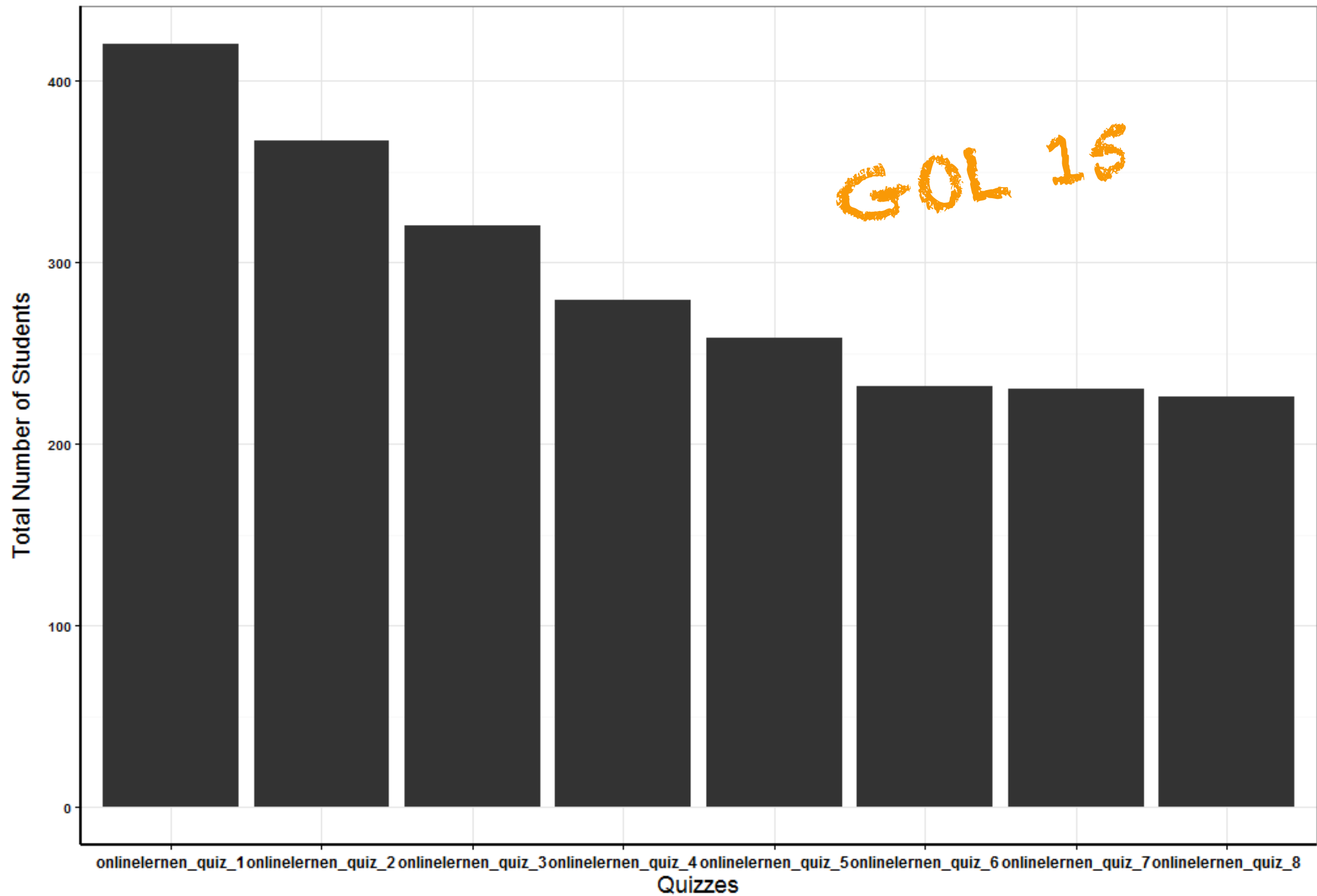


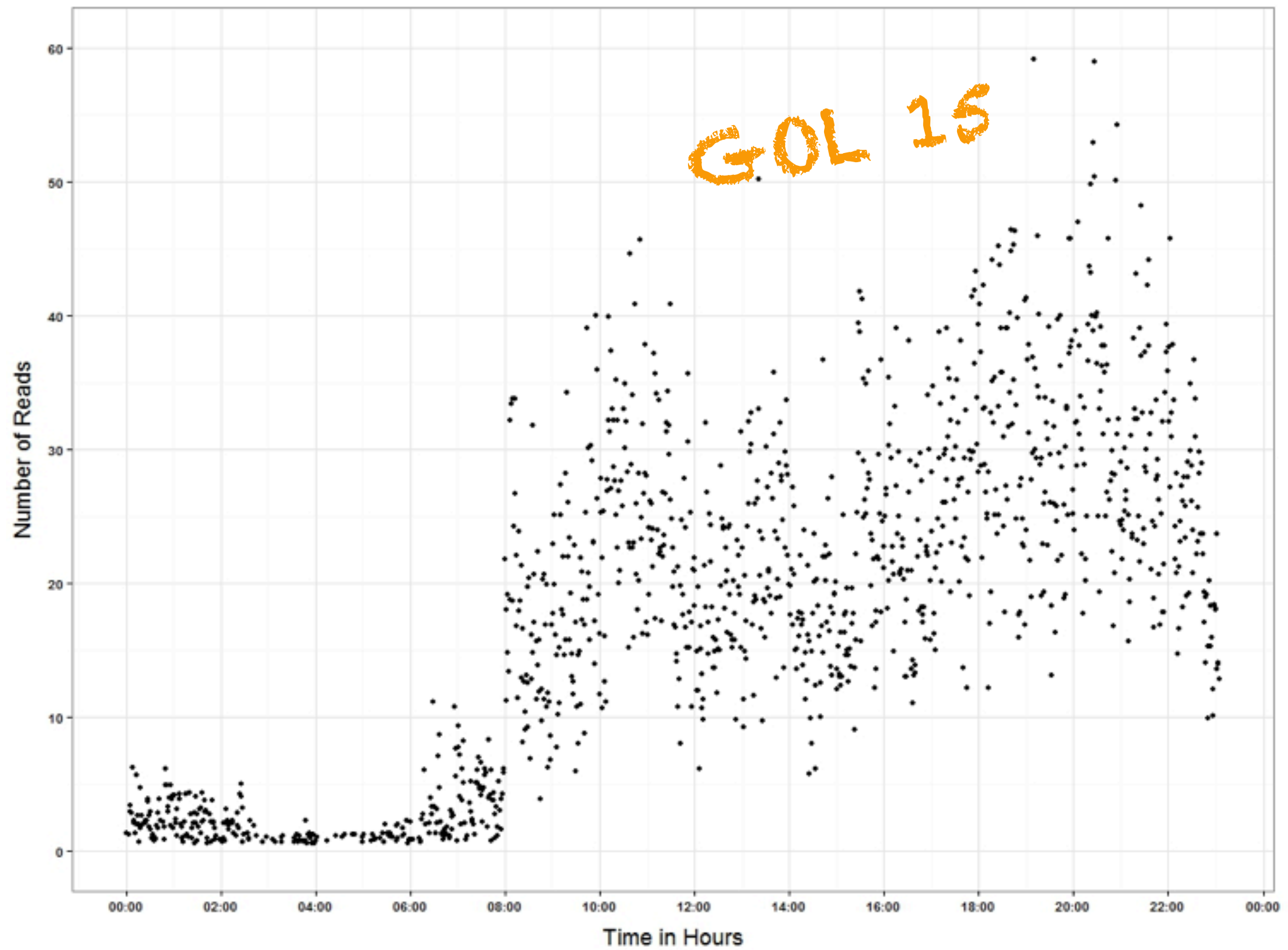
Activity

GOL forums read during active course

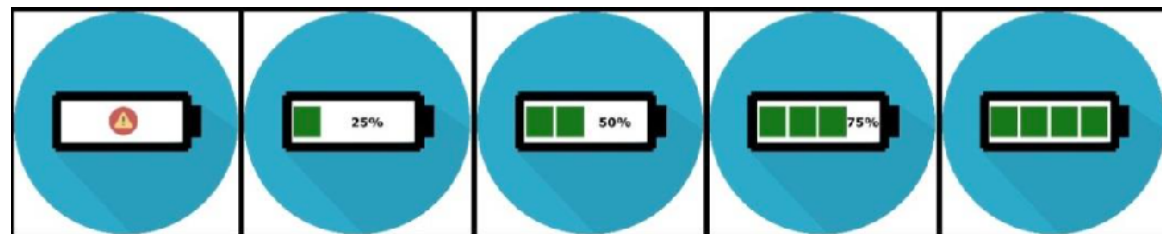


MOOC : Gratis Online Lernen  
Showing: Quizzes Attendance

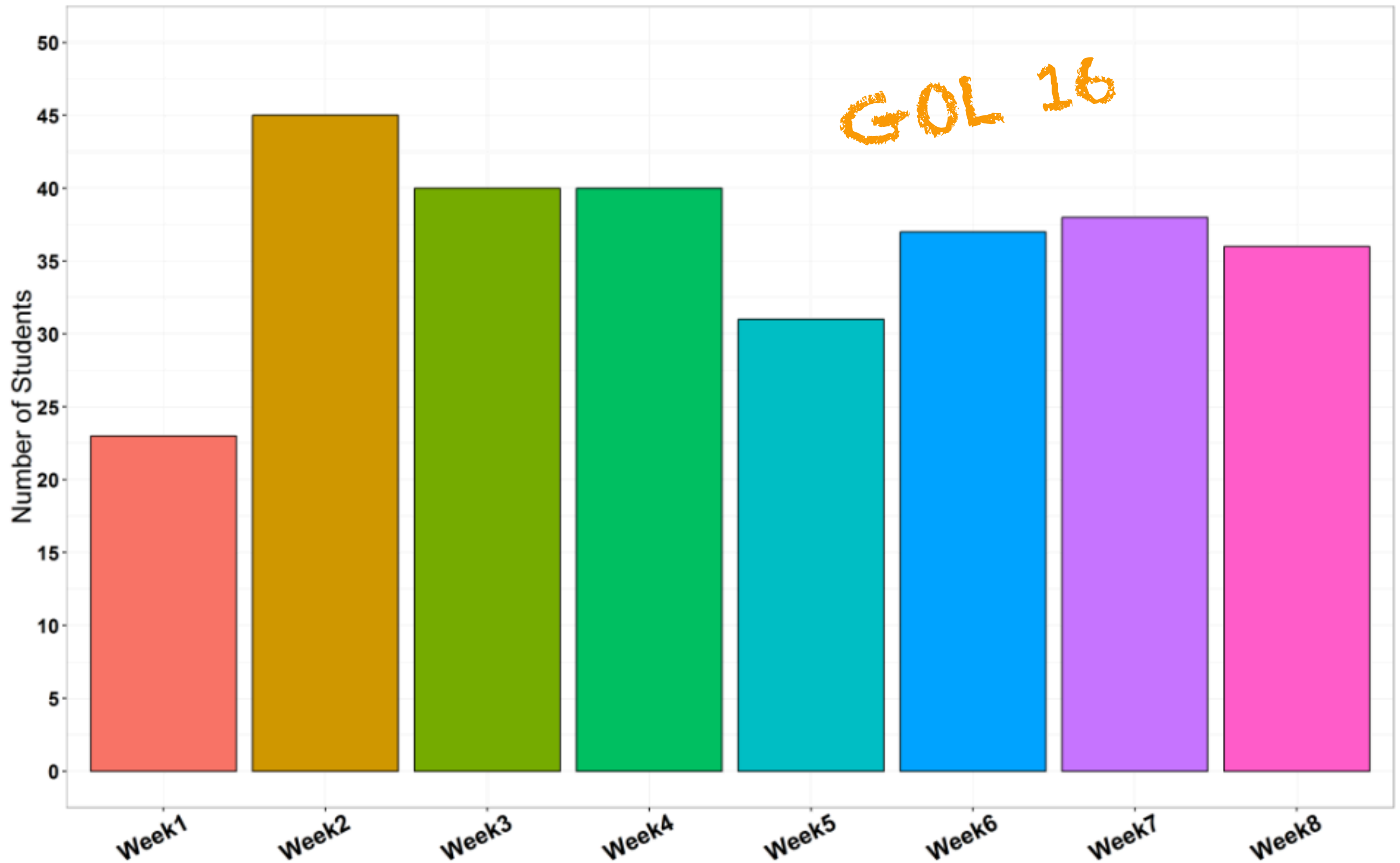




# Gamification



Number of students who did at least one Quiz in GOL2016






Learning happens - always, at any time -  
but perhaps not as  
structured as we expect.





MooC

Seven Learning and  
Teaching Scenarios for MOOCs

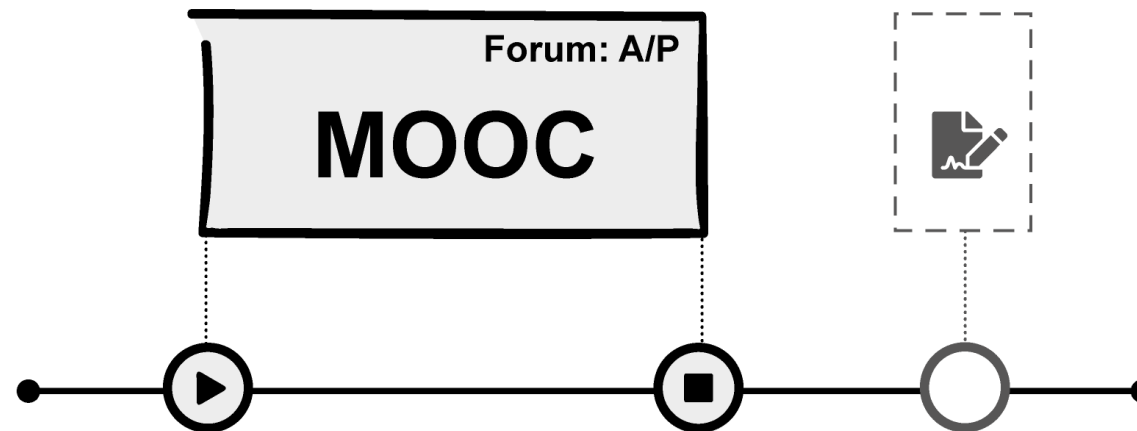


Precondition: Any content is an  
Open Educational Resource



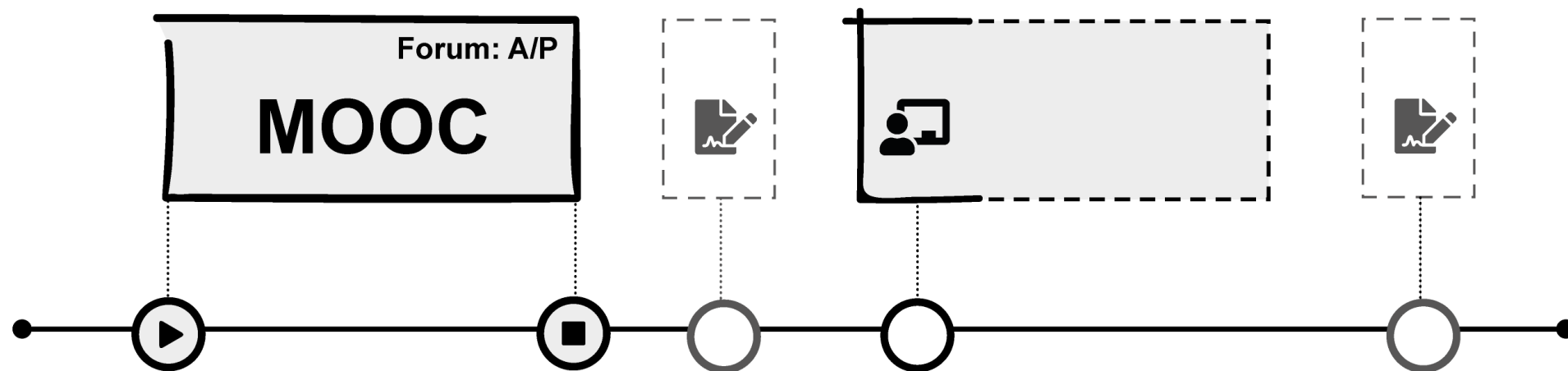
			
Start	End	Face to face	Assessment
<b>Forum: A/P</b> Aktiv/Passive			
<b>MOOC</b> Massive Open Online Courses			
<b>LMS</b> Learning Management System			

# Type 1: the conventional MOOC



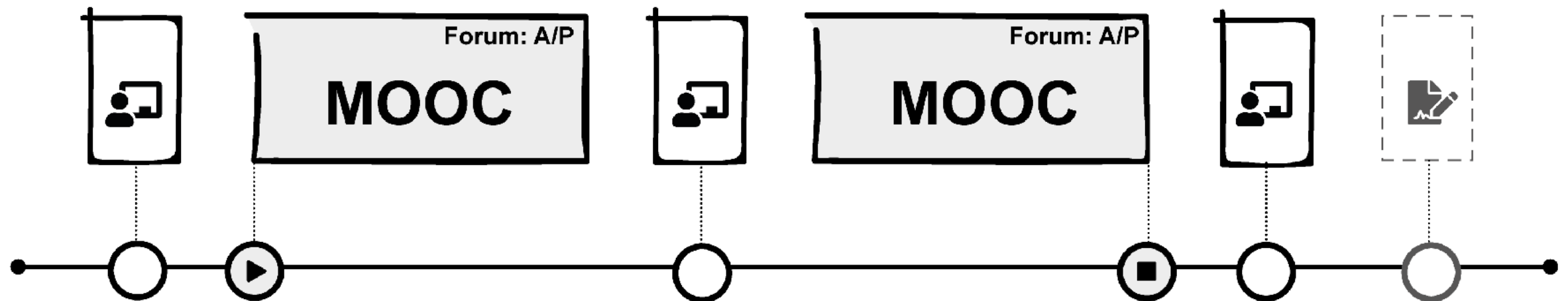
a pure online course for many users

## Type 2: the Pre-MOOC



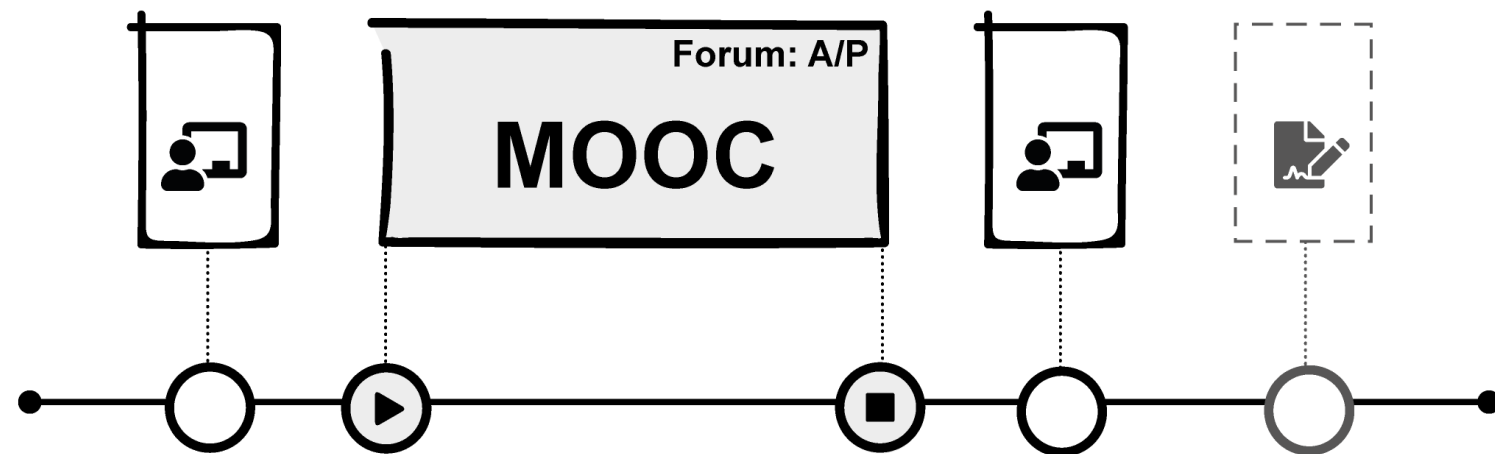
an online course as preparation for a following learning event

## Type 3: the **Blended** MOOC



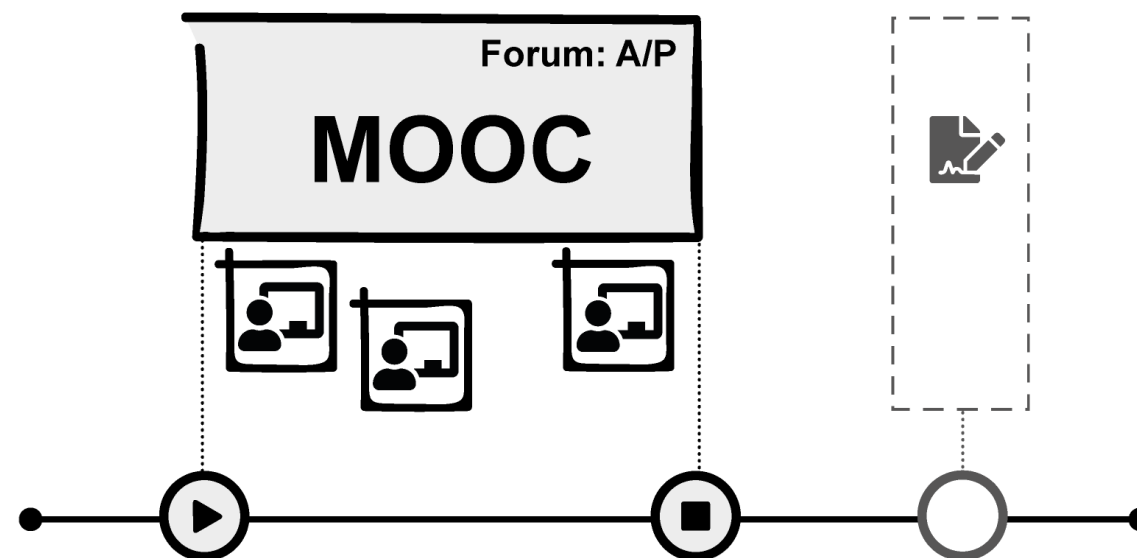
a MOOC that is integrated in between several face-to-face learning events

## Type 4: the In-Between MOOC



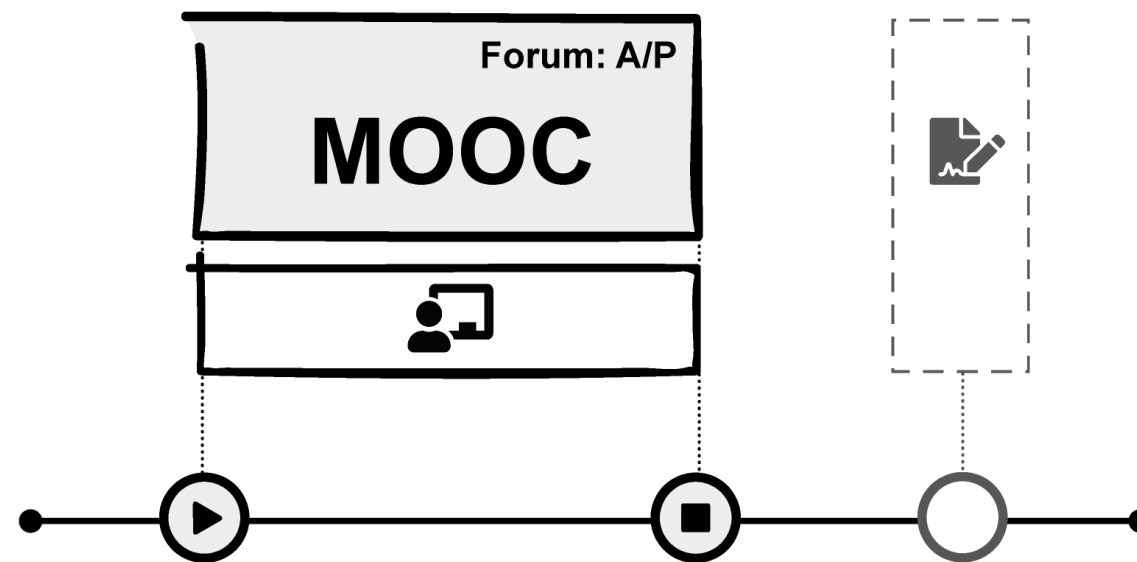
is a special form of type 3, where the MOOC is in-between two face-to-face-events

# Type 5: the Inverse-Blended MOOC



a type of MOOC which is enriched by face-to-face meetings and events

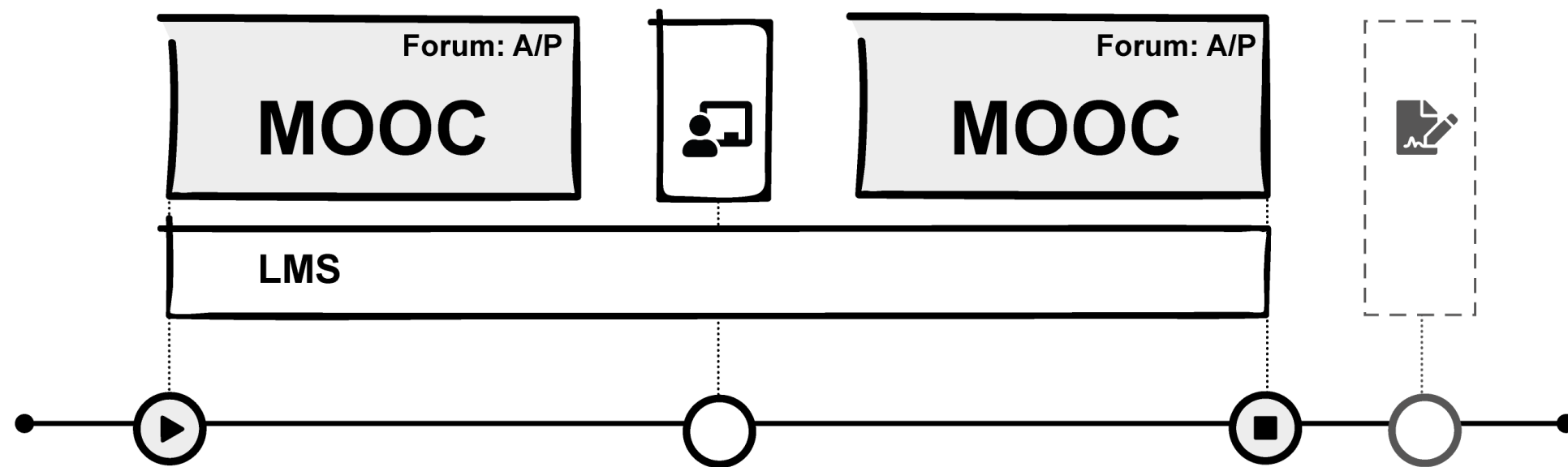
# Type 6: the Flipped MOOC



a MOOC is used to flipped/inverted classroom concept:  
the MOOC prepares parallel for the face-to-face phases which  
are focussed to discuss, train or apply knowledge



# Type 7: the **Lecture** MOOC





is accompanied by online activities in the LMS of an educational organization, which allows e.g. additional non-public discussions and tests

# MOOCs & FLIPPED CLASSROOM

Massive Online Open Courses

## How can I implement online teaching in my lectures?

**1. Concept phase**   
Decide which parts of your lecture will be part of the online course (MOOC).

**2a. Preparing phase**   
Record your chosen lecture parts in our professional studio setting and turn them into learning videos. Discover different teaching scenarios for your online courses and decide on your personal didactical concept!

**2b.** Explain your **new** concept to your students. 

**3. Implementation phase**   
The MOOC goes online and is being launched. Prepare your weekly lecture time, add deeper knowledge to the basics and be ready to interact with your students.

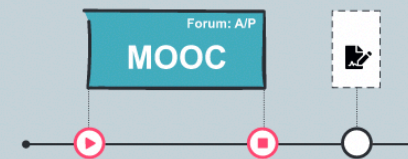
Ebner, M., Braun, C., Schön, S. (2019). Mehr als nur ein MOOC – Sieben Lehr- und Lernszenarien zur Nutzung von MOOCs in der Hochschullehre und anderen Bildungsbereichen. In: Jörg Hafer, Martina Mauch & Marlen Schumann (Hrsg.), Teilhabe in der digitalen Bildungswelt, GMW Proceedings 2019, Medien in der Wissenschaft, Band 75, Münster: Waxmann, S. 138-149 | Graz University of Technology/Educational Technology, Graz 2019

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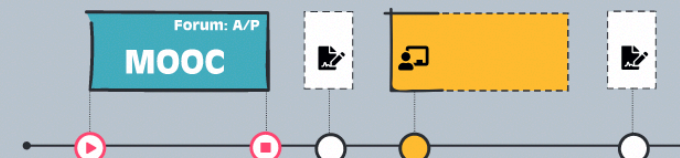


## Seven teaching and learning scenarios with MOOCs

### TYPE 1: The conventional MOOC



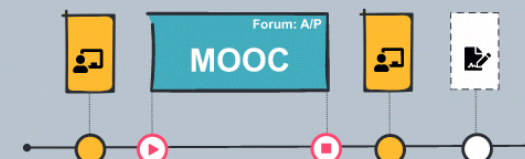
### TYPE 2: The Pre-MOOC



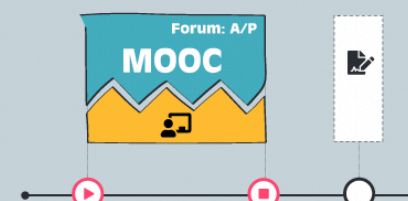
### TYPE 3: The Blended-MOOC



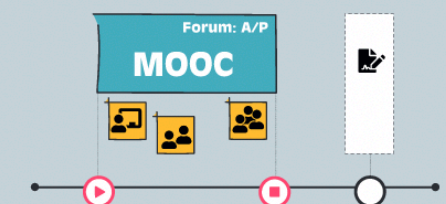
### TYPE 4: The In-Between-MOOC



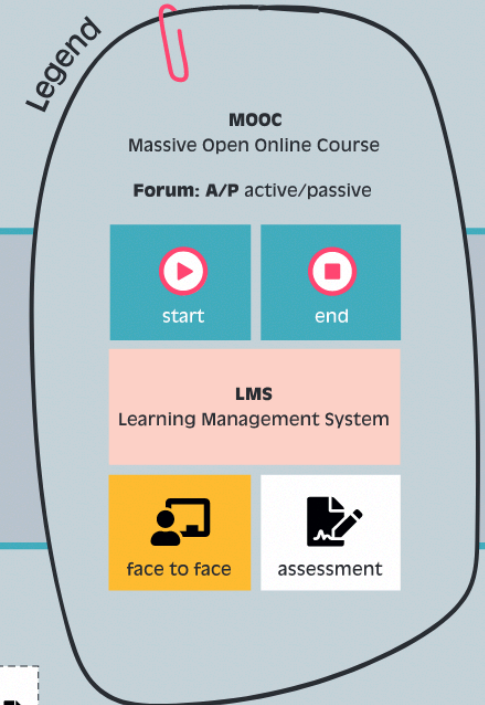
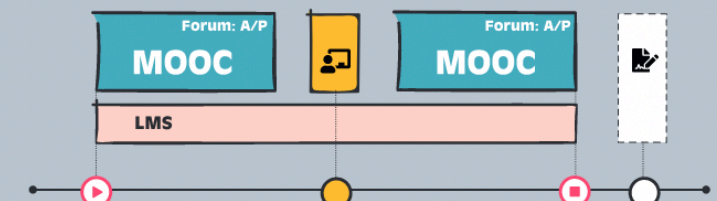
### TYPE 6: The Flipped-MOOC



### TYPE 5: The Inverse-Blended-MOOC



### TYPE 7: The Lecture-MOOC

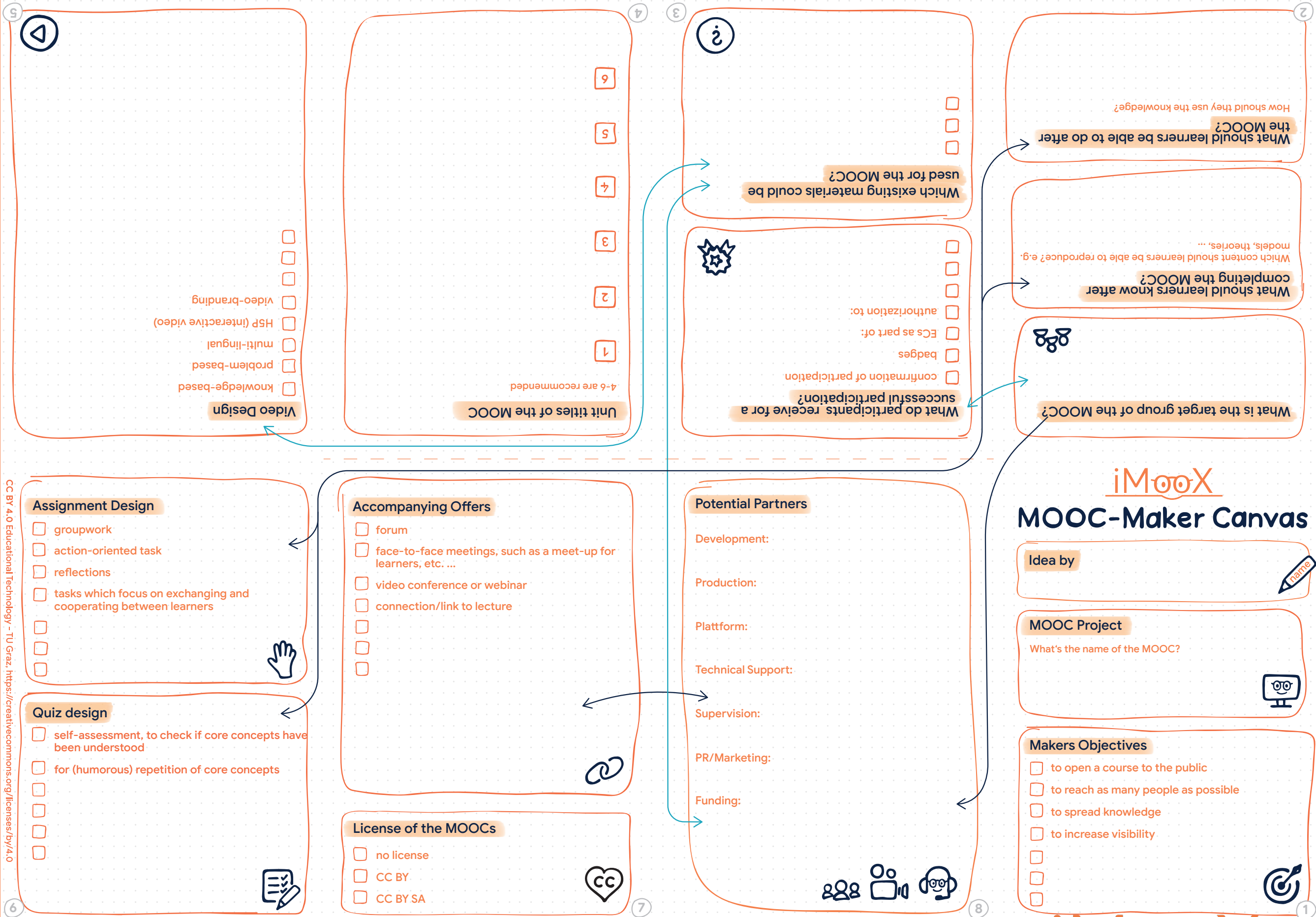


MOOC

The word "MOOC" is written in a large, black, handwritten font. The two 'O's are stylized to look like eyes, each with a small orange dot in the center. Above the first 'O' and below the second 'O' are orange curved lines, resembling eyebrows and a smile, respectively.

How can you do your own MOOC?







# MOOC MAP

[Massive Open Online Course]

In 10 Schritten zu Ihrem eigenen MOOC

## LEGENDE

Erklärung der Farben:



MOOC-Ersteller:in



iMooX-Team



Optional

## Start

Los gehts!

### 1. Einschulung

- ☐ Systemeinschulung
- Zertifikat
- ☐ Name / Kontaktadresse (E-Mail)
- ☐ Vereinbarung unterzeichnen

# iMooX

### 2. Benutzer:innenkonto

Freischaltung als Kursersteller:in

### 3. Anlegen Startseite

- ☐ MOOC-Name
- ☐ Kürzel
- ☐ Startdatum

Platz für Anmerkungen

### 4. Inhalt Startseite

- ☐ Einpflegen Inhalte
- ☐ CC-Lizenz
- ☐ Kursbild
- ☐ Trailer ♦

Kursbild: 520 x 390 px

### 5. Freigabe Startseite durch iMooX-Team

Spätestens 2 Monate vor Start

### 6a. MOOC-Promotion

- Social Media Kanäle iMooX
- ☐ Eigene Promotion

### 6b. Erstellungsphase

- ☐ Kursvideos
- ☐ Self-Assessment
- ☐ Weitere Inhalte
- ☐ Badges ♦

#### Kursvideos

- ☐ Video-Branding
- ☐ Videos für iMooX-YouTube-Kanal
- ☐ # (max. 400 Zeichen) ♦
- ☐ Untertitel ♦
- ☐ Thumbnails ♦
- ☐ interaktive Fragen mit H5P ♦

### 7. Überprüfung und Freigabe durch iMooX-Team

Spätestens 2 Wochen vor Start

Start des MOOCs

### 8. Betreuer Kurs

- ☐ Nur Korrekturen erlaubt, keine neuen Inhalte
- ☐ Forumsbetreuung
- Technischer Support

office@imoox.at

### 9. Abschluss/Statistik

- Anzahl der abgeschlossenen Quizzes
- Anzahl der Teilnehmer:innen
- Anzahl der vergebenen Badges

### 10. MOOC Selbstlernkurs

Verfügbarkeit des MOOCs nach Absprache

PRE-MOOC PHASE

MOOC-VORBEREITUNG

MOOC-DURCHFÜHRUNG

SELBSTLERNPHASE

Platz für Anmerkungen:



If the content is also available as Open Educational Resources, the exchange in between other institutions and usage of external organizations becomes rather simple and legal – **OER works as motor.**



OER-MOOCs facilitate **access to education** in an innovative way and allow for **new forms** of teaching and learning

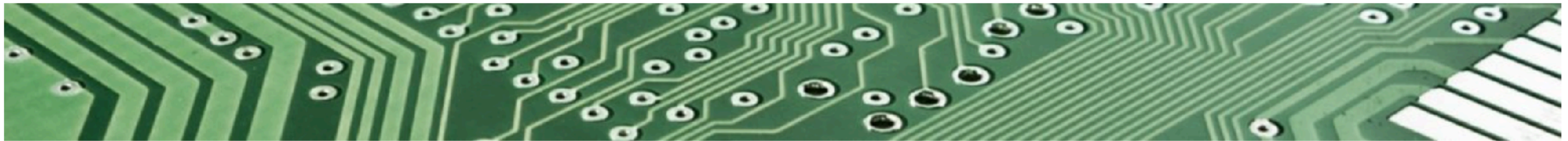




(M)OOCs are not a trend or hype, they are the **consistent** and **logical** further development of teaching and help to make educational content **accessible**.



We offer MOOC-hosting - write us:  
[office@imoox.at](mailto:office@imoox.at)



Slides available at:

<http://elearningblog.tugraz.at>



iMooX

Follow me!



@mebner

## EDUCATIONAL TECHNOLOGY

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of Technology

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Yes, we care :-)

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