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Preparing for future teaching: How to interlink Moodle and virtual reality media?

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- How to create cost-effective VR media for Moodle?
- How teachers can interlink Moodle activities & resources with VR media?
- Students' feedback
- Tips and tricks for both technology and didactics





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### Our technical approach

- VR content from media creation agencies may be expensive
- Looking for solutions: low-cost, easy-to-use, at least 4K, supporting live streaming, etc.
- Our choice:



Samsung Gear 360 (version 2017)



Used for both – recording and live streaming













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\* ... Standalone recording
Live streaming via USB (or WiFi via app)

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#### VR media & Moodle



- Side notes for YouTube VR media:
  - video content creation with incl. 360 software
  - uploaded in 4K resolution
  - attribute: "Not listed"
  - embed in Moodle



- Moodle interlinks:
  - Live stream video embedded as a "Chat" (we had live feedback!)
  - Recording embedded as "Page"
  - After activity completion "view" → "Feedback" for survey
  - Tutored discussions via "Forum"
  - "Quiz" for content checks



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#### Our lecture

- Lecture "E-Tutoring, Moderation of e-Learning"
- Goal: Learn about e-learning → moderation and communication possibilities and methods
- VR media used for now 2 consecutive years

• 40+ students

• BYOD:





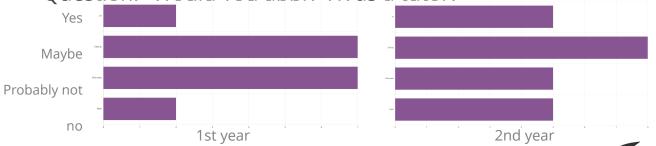


#### Feedback

- Video quality: "Good" (2.5)
- Audio quality: "Good" (1.9)
- Navigation quality: "Very good" (1.5)
- Audibility "Very good" (1.5)
- Average immersion



Question: "Would vou apply VR as a tutor?"



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# Tips and tricks

- Be aware: High hardware requirements for live streaming with VR (recordings requirements are lower!)
- Be aware: High network requirements
- Special preparation of learning-content!
- Guidance is key!
   (visual & acoustic keys, subtitles, narration, be patient!)



- "Low" resolution of 360-video
- When live streaming: high latency (+30 sec.)



# Take away



- Amazing tool to get student's attention!
- Great for some type of content, but not for all!
- Live 360 is nice, but recording does the job as well!



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Thank you!

Questions?