



Simply create a MOOC on WIKIVERSITY

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Outline

- 1) Introduction to MOOCs and current trends
- 2) Our first "nightmare" experients on Wikiversity
- 3) Our new approach (New Frontend)
- 4) Summary



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We are







Rene Pickhardt

Steffen's PhD Student and driver of this project

Rene's student assistent and main javascript and lua developer

Sebastian Schlicht Prof. Dr. Steffen Staab Robert Naumann

Founder of the Institute for Web Science and **Technologies**

Video editor responsible for multimedia content

What about you? Who are you?

- Who is a
 - teacher?
 - Developer
 - Wikipedian
 - Politician
 - Publisher
- Who has created
 - Learning materials
 - OER
- Who has created a MOOC or is planning to do so?

Statement of apology

- Apparently I am not so happy about this talk
 - Chaotic structure
 - Political statements

Obviously the matter is political and those matters seem much harder to discuss and communicate than actual OER like a simple Web Science MOOC

What a Massive Open Online Course should be

- Accessible without barriers (for everyone, everywhere)
- Free of charge
- Give freedom to others to reuse / improve the content
- Make use of open formats
- Make use of free software

Easy to use

→ let us do the reality check!

NOT Accessible without barriers

UDACITY

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NOT free of charge

https://www.coursera.org/specialization/fundamentalscomputing

Overview

Certificate

Courses

Instructors

FAQs

Start Specialization

Courses

This series introduces students to the basics of analyzing and solving computational problems. It will provide students with a solid foundation in the mathematical and programming techniques that support creating efficient ... Show more »



NO freedom to reuse / improve the content

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source: https://www.udacity.com/legal/

Little use of Open Formats and free software

- No source code for
 - Coursera
 - Udacity
 - Iversity
 - Itunes
 - •

Ease of use

Examples of great usability for courses

Coursera (proprietary)

Udacity (proprietary)

Iversity (proprietary)

Itunes (proprietary)

Khan Academy (OER? Curated...)

• ...

Examples for not so good usability

Wikiversity (OER)

Moodle (potentially OER)

OLAT (potentially OER)

• ...

What a Massive Open Online Course are like

- Accessible without barriers (for everyone, everywhere)
- Free of charge
- Give freedom to others to reuse / improve the content
- Make use of open formats (?)
- Make use of free software (?)
- Easy to use (YES)

Main Problems:

- Big difference / large gap between
 - what is
 - what should be
- Teaching is difficult in its own.
 - Almost no one creates high quality content
- Free platforms often lack usability (#oerde13)
 - Seems like the most important factor for adaption
- Publishers don't like the OER movement
 - Lobbying and pressure on politics



Our Motivation: Study the Web on the Web

- Be truly open
- Don't host it ourself
- Find a partner that will stay for more than 5 years
- Have a good reach to attract new students
 - → Khan Academy or Wikiversity / wikimedia

c.f.: http://www.rene-pickhardt.de/comparison-of-open-educational-resources-services-to-host-your-mooc/

The role of Wikimedia (Deutschland)

- OER and education is a main focus for Wikimedia
- German Wikiversity has a Moodle installation
 - one is trying to provide tools for teachers
- Improving usability of Mediawiki
 - Winter (http://unicorn.wmflabs.org/winter/index.html? page=MOOC)
 - Visual editor

We decided for wikiversity

• Pro:

- High trust in goals for openness and freedom
- Collaborative: Chances for students to correct materials
- Benefiting from the ecosystem and large user base of Wikipedia (our videos could also enhance wikipedia content)
- A lot of great content already exists in commons, wikipedia, books and wikiversity and can be reused and mixed

Contra:

- Limitations from Mediawiki-Software
- Low usability for students
- Overhead for teachers when creating the course on the site
- No analytics for students and teachers
- Anyone could interfere

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Page layout

Home Part1: Foundations of the web Part2: Emerging Web properties Part3: Web & society Flipped Classroom Enroll About the Web Science MOOC

Course elements

- PART1: Block1: Ethernet Internet Protocol Block2: Transmission Control Protocol Domain Name System Block3: Internet vs world wide web HTTP Block4: Web Content Block5: Dynamic Web Content
- . PART2: Block1: Emerging structure of the Web Block2: Search engine ecosystem Block3: Ranking memes and user modelling Block4: Collective Intelligence & herding Block5: Online Communities
- PART3: Block1: Law & Copyright Block2: Ethics, Norms & Net Neutrality Block3: Trust, Influence & Security

New here? Check the introduction!

Show latest discussions





Discussion on the page. What if I click on the blue button?

Discuss A simple HTTP client with others

Ask a question

Give an answer

Join the discussion: Ask and questions and provide answers

- If you click the ask a question button you're question will appear at the bottom of this list.
- If you click the give an answer you will be able to provide an answer to the questions that have been asked so far.

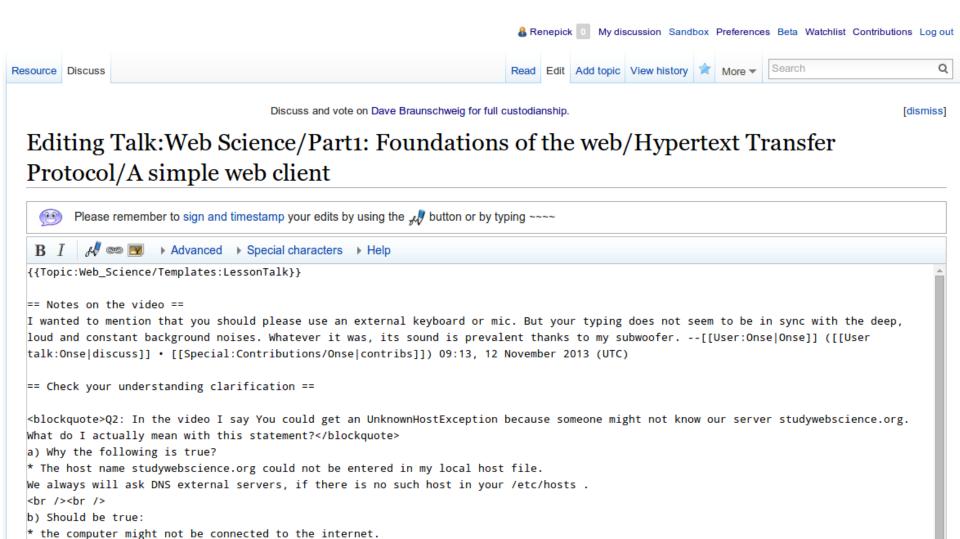
Notes on the video

I wanted to mention that you should please use an external keyboard or mic. But your typing does not seem to be in sync with the deep, loud and constant background noises. Whatever it was, its sound is prevalent thanks to my subwoofer. --Onse (discuss • contribs) 09:13, 12 November 2013 (UTC)

Check your understanding clarification

Q2: In the video I say You could get an UnknownHostException because someone might not

I come to the discussion page (edit mode)



Saving I come to the discussion page (not where I was...)



Talk:Web Science/Part1: Foundations of the web/Hypertext Transfer Protocol/A simple web client

< Talk:Web Science | Part1: Foundations of the web

Join the discussion: Ask and questions and provide answers [edit]

- . If you click the ask a question button you're question will appear at the bottom of this list.
- If you click the give an answer you will be able to provide an answer to the questions that have been asked so far.

Notes on the video [edit]

I wanted to mention that you should please use an external keyboard or mic. But your typing does not seem to be in sync with the deep, loud and constant background noises. Whatever it was, its sound is prevalent thanks to my subwoofer. --Onse (discuss • contribs) 09:13, 12 November 2013 (UTC)

Check your understanding clarification [edit]

Q2: In the video I say You could get an UnknownHostException because someone might not know our server studywebscience.org. What do I actually mean with this statement?

- a) Why the following is true?
- The host name studywebscience.org could not be entered in my local host file.

We always will ask DNS external servers, if there is no such host in your /etc/hosts.

Videos in German wikipedia articles

Wikipedia:WikiTV/Projekte/Videos für Wikipedia-Artikel (VWA)

< Wikipedia:WikiTV

(Weitergeleitet von Wikipedia:VWA)

Hauptseite

Mitmachen

Themen

Workshops

Wettbewerb

Lehrmaterialien

Schnittserver

FAQ

Von den 1,7 Millionen Artikeln der deutschsprachigen Wikipedia enthalten nur etwas über 2000 ein Video. Das wollen wir ändern – vorerst, passend zum Wissenschaftsjahr 2014, zum Thema "Digitale Gesellschaft".

Im Rahmen des Projekts Videos für Wikipedia-Artikel (VWA)

- werden daher Workshops angeboten, in denen Interessierte Grundlagen der Videoproduktion lernen bzw. Vorkenntnisse erweitern können;
- findet ein Wettbewerb statt, bei dem die mit dem Wissen aus den Workshops oder auch unabhängig davon entstandenen Videos eingereicht werden können und prämiert werden;
- werden Lehr- und Lernmaterialien entwickelt und als Open Educational Resources zur Verfügung gestellt;
- wird ein Videoschnitt-Server entwickelt, der die Handhabung großer Rohdatenmengen und die kollaborative Videoproduktion erleichtern soll;
- soll die Diskussion über eine der Wikipedia entsprechende Bildsprache angestoßen werden.



Videos in english wikipedia articles

Wikipedia:WikiProject Wiki Makes Video

From Wikipedia, the free encyclopedia



This is a WikiProject, an area for focused collaboration among Wikipedians.

Guide to WikiProjects · Directory of WikiProjects

Home Shoot Clip Suggest Examples About



Did you know that while English Wikipedia has over 4 million articles, only 0.1% of them have video?





- (cur | prev) 19:00, 27 October 2013 Kbrose (talk | contribs) . . (5,319 bytes) (-176) . . (Undid revision 577448964 by Renepick (talk) rv. personal video spam) (undo | thank)
- Taken from: https://en.wikipedia.org/wiki/Talk:Ethernet frame#Videos
- A couple videos have been added to the article by Renepick.[...] I'm not convinced that addition of these is an improvement to the articles. Other opinions?...
- I think that how-to videos are not encyclopedic and should not be prominently positioned in Wikipedia articles...
- Sure, adding animations to Wikipedia is a good idea, but it doesn't follow that you have to add whole lecture videos. This falls under WP:NOTGUIDE: "The purpose of Wikipedia is to present facts, not to teach subject matter".

Conclusions from our first try

- Mooc by wikimedia hosted on third party site
- Other teachers not willing to learn our semi automated templating system to create similar courses
- · High barrier for students to interact with the content
- · We were considering moving our content to another platform
- Other Wikimedia projects did not value our "innovative" (?) content
- There was something we must have overseen
 - Yes proprietary solutions have great usability

Our new approach

Keep it stupid Simple

- Same features as coursera was not enough
- People want software that is easy to use
- People want to concentrate on their main task and not be distracted by thinking about software
- Point and Click instead of learning Mediawiki syntax and processes.

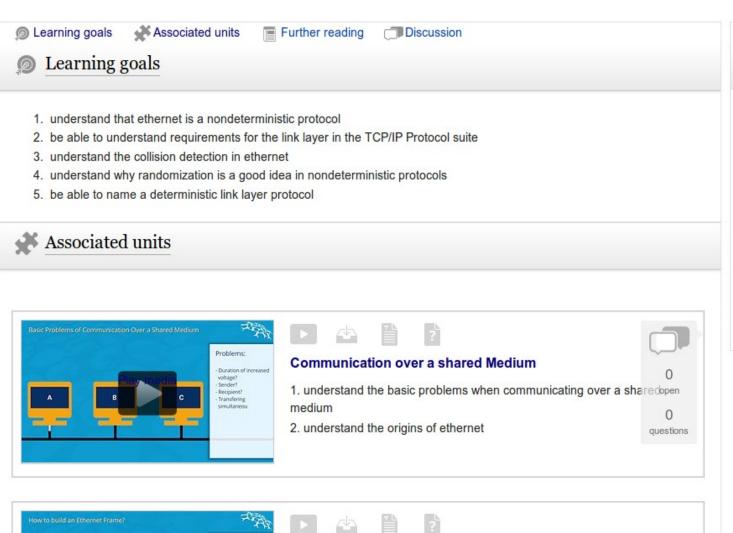
Requirements

- K.I.S.S (Keep it stupid simple)
 - For both teachers & students
- Social (learning is a collaborative approach)
 - Again both teachers & students
- Interactive / Feedback driven
 - Tell the learner what he knows & what he should know
- Extending Mediawiki
 - without asking the developer / maintainer for permission to do what we plan (create realities)

Features

- Discussion system for learning content
- Multiple choice quizes
- Video embeddings
- Easy to use navigation
- Automatic process of maintaining course structure
- Easily compatible with mediawiki and other course formats

Overall Lesson layout





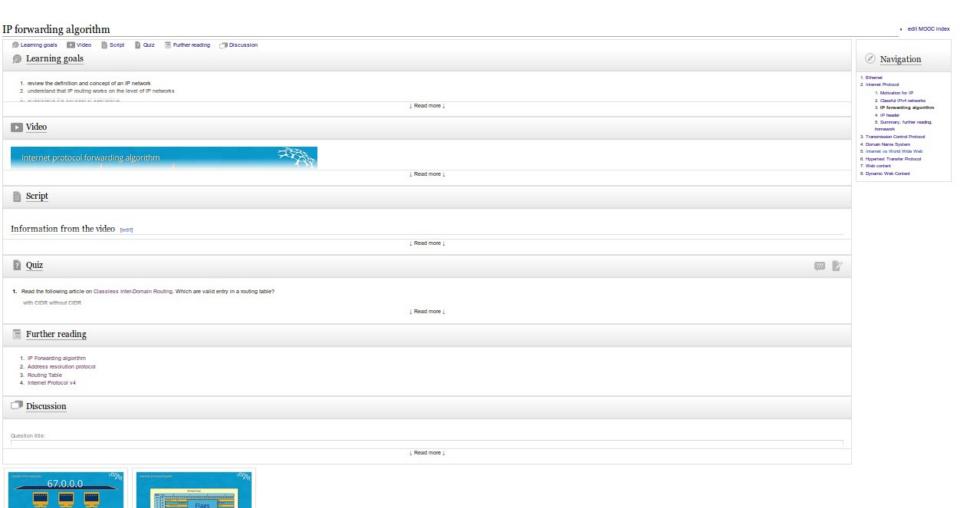
Navigation

- 1. Ethernet
 - Communication over a shared
 Medium
 - 2. Ethernet header
 - Minimum package length vs maximum cable length
 - 4. Collision detection
 - Summary, further reading, homework
- 2. Internet Protocol
- 3. Transmission Control Protocol
- 4. Domain Name System
- 5. Internet vs World Wide Web
- 6. Hypertext Transfer Protocol
- 7. Web content
- 8. Dynamic Web Content

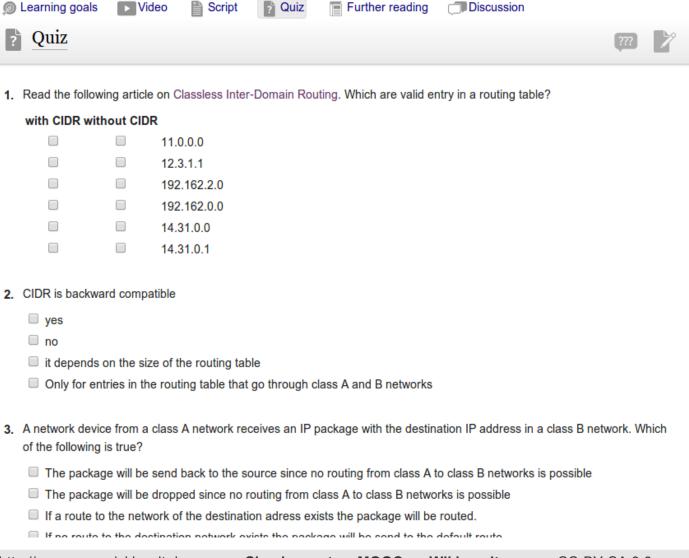
Ethernet type

Ethernet header

Overall Page layout



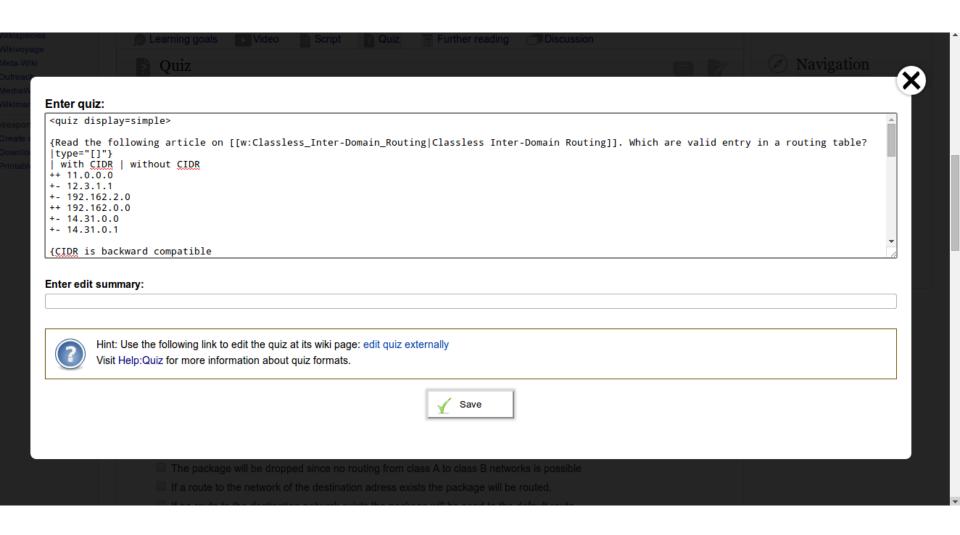
In place editing





- 1. Ethernet
- 2. Internet Protocol
 - 1. Motivation for IP
 - 2. Classful IPv4 networks
 - 3. IP forwarding algorithm
 - 4. IP header
 - Summary, further reading, homework
- 3. Transmission Control Protocol
- 4. Domain Name System
- 5. Internet vs World Wide Web
- 6. Hypertext Transfer Protocol
- 7. Web content
- 8. Dynamic Web Content

In place editing (2)



How to do it on your own:

- Go to https://en.wikiversity.org/wiki/Category:MOOC
- Or: https://en.wikiversity.org/wiki/Wikiversity:MOOC-Interface
- German Wikiversity users will have to wait until the end of the year.
 - Register for email notification right now!

Summary

What have we done?

- We created a social learning interface for Mediawiki
- It is from the User Experience comparable with proprietary solutions
- Effort needed
 - Half a year of experience how to not missuse media wiki
 - 1 Student assistent 6 Month 12 hours per week.
 - 1 person month of my time for conceptual work
- What I am saying: Creating something like this is cheap

Remaining problems

- Community is very slow
 - Code will break in the hand of the community
 - no possibility for software tests
- Video collaboration is still missing
- Analytics are still missing
- There is still a lot of know how required
- People don't care about the license

Our Roadmap for the project

- Obviously hold the Web Science MOOC and a second lecture at university of Koblenz
- Find more teachers (content creator)
- Deploy the scripts on Wikiversities (include communities)
- Try to hand the Maintenance over to Wikimedia Germany
 - Server side programming
 - Session handling
 - Privacy aware Analytics (for students and teachers)
- Import tools from open course and learning formats.
 Standardizing our MoocIndex format.

Conclusion: Continue to fight for free education

- Creating OER is hard due to license issues.
- Little problem awareness among teachers and students
- Creating OER has become a little bit more convenient.
- We need more tools to make creation of OER convenient.
- We need software that takes up the high standards of proprietary solutions.
- Policy makers need to be on board and promote OER
- OER is not expensive.

I am on the wrong venue: Our MOOC was not OER ether

- 22 flipped classroom lectures deleted on wikimedia commons
- http://www.rene-pickhardt.de/copyright-violations-videos-from-our-oer-web-science-mooc-deleted-from-wikimedia-commons/
- Copyright violation in Screencasts recorded with microsoft windows
- Copyright violation for using proprietary classroom software while making screen casts.
- Sorry: We tried hard but have failed you. I am a physicist, mathematician who is doing a PhD in computer science.
 - I am not a lawyer :(

Dedicated to

Aaron Swartz (1986 - 2013)

As a symbol for openness and freedom of education for all citizens in the world

Aaron would have loved what we are doing and died way too early because the people benefiting from the injustice did not love his fight for justice.



Thank you very much!

Questions?

http://www.rene-pickhardt.de

http://twitter.com/renepickhardt

http://github.com/renepickhardt

