



Cloud & Web Anwendungen

Prof. Dr.-Ing. Martin Gaedke

Technische Universität Chemnitz

Fakultät für Informatik

Verteilte und selbstorganisierende Rechnersysteme





(Social) Web (Engineering)(Cloud)(Apps)

"The Web is all about connecting people!"

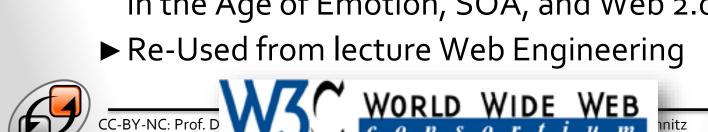
Tim Berners-Lee

... and it is disrupting everything with high speed.



Ok, we are starting...

- This is an **introduction** to Web Engineering with focus on current industry and research trends, i.e. Agile Development, Cloud, Apps
- Prerequisites
 - ► No real prerequisites
 - ► Interested in learning about different perspectives
 - ► Open to findings of human nature
- Parts of this lecture
 - ▶ Re-Used from WWW2008 tutorial: Creating Solutions in the Age of Emotion, SOA, and Web 2.0







Lecture

- Type of event: Lecture
- Principal Lecturer: Prof. Dr.-Ing. M. Gaedke
- Tutor: Mahda Noura, M.Sc.
- CORONA

 EMERGENCY-LECTURES

 Please check OPAL
- SWS: 2 + 2

All Exams will be in WRITTEN FORM

► Based on Faculty decision even though your Prüfungs-/Studienordnung might still show oral exam

Further Information

SPECIAL ONLINE STYL

- Literature
 - ► There is NO course textbook
 - ► However, there are different books, magazines, papers, Web-Sites that cover parts of the course
 - ► References to Further Readings will be given each lecture
- In addition
 - ► Web Site for this lecture will provide the data
 - ► You can download the slides there



Further Information

- Website of the professorship
 - □ http://vsr.informatik.tu-chemnitz.de/
- Website of the lecture
 - □ http://vsr.informatik.tu-chemnitz.de/edu/2020/cwa/
- Follow me on Twitter:
 - □ http://twitter.com/gaedke
- Like us on Facebook:
 - □ http://www.facebook.com/myVSR



New Guiding Element

NEW: This semester, we will start increasing the use of Standards and de-facto (industry-relevant) standards from Standards organisations, NGOs, companies, political bodies etc. as guiding elements and source for content – so you will be prepared in the future where to look for updates and how to deal with them!

These include, but are not limited to e.g.:

- International Standardization Organization (ISO) https://www.iso.org/
- Internet Engineering Task Force (IETF) http://www.ietf.org
- Institute of Electrical and Electronics Engineers (IEEE) https://www.ieee.org/
- World Wide Web Consortium (W₃C) http://www.w₃.org
- Object Management Group (OMG) http://www.omg.org
- Project Management Institute (PMI) http://www.pmi.org
- Scrum Alliance https://www.scrumalliance.org
- European Union (EU)
 - http://www.europa.eu
 - http://www.eugdpr.org
- United Kingdom (UK) and the D₅ https://www.gov.uk/service-manual
- Companies and services in the context of cloud and serverless computing, like
 - Amazon Lambda: https://aws.amazon.com/lambda/
 - ► Google Cloud Functions: https://cloud.google.com/functions/
 - Microsoft Azure Functions: https://azure.microsoft.com/en-us/services/functions/
 - ► IBM OpenWhisk: https://www.ibm.com/cloud-computing/bluemix/openwhisk



Lecture Outline

