

CAS Applied Data Science - Module 1 - www | data bases

Data Acquisition and Management

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Bern, 2019-08-23

Questions from yesterday

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Module 1 Third day

13:30 Discussion session

14:00 Retrieving data from www

Introduction, notebook tutorial

15:00 Break

15:30 Retrieving data from www

- Notebook tutorial
- Project clarificationsl

17:00 Apero

Retrieving data from www

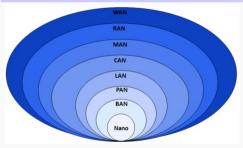
The **World Wide Web** (**WWW**), also called **the Web**, is an <u>information</u> <u>space</u> where documents and other <u>web resources</u> are identified by <u>Uniform Resource Locators</u> (URLs), interlinked by <u>hypertext</u> links, and accessible via the <u>Internet</u>.

Internet

History

- Early developments in 1960s
- ARPANET 1969 (Advanced Research Projects Agency)
- Packets switching
- TCP/IP standardized in 1982
- Email, phone, file sharing ... www

Computer network types by spatial scope

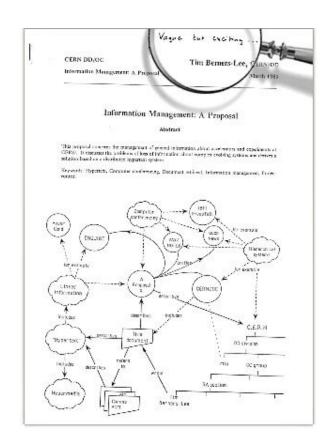


- Nanoscale
- Near-field (NFC)
- Body (BAN)
- Personal (PAN)
- Near-me (NAN)
- Local (LAN)
 - Home (HAN)
 - Storage (SAN)
 - Wireless (WLAN)
- Campus (CAN)
- Backbone
- Metropolitan (MAN)
- Wide (WAN)
- Cloud (IAN)
- Internet
- Interplanetary Internet

World Wide Web

History

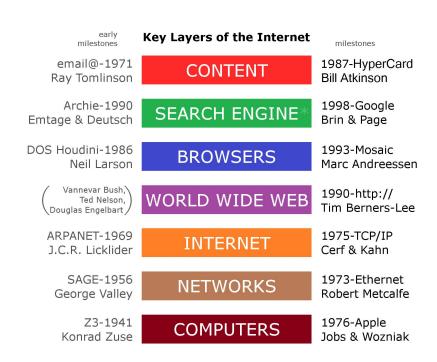
- 1989 Tim Berners Lee proposal at CERN
 - HTML, URI/L, HTTP
- 1990 First www server and browser
- Rest is history
- https://webfoundation.org/about/visio n/history-of-the-web/



World Wide Web

Usage

 https://www.slideshare.net/Micro-Foc us/growth-of-internet-data-2017



How to access www data sources?

GUI or from shell, scripts and programs

- With application programming interface (API)
- Gives you the set of functions/methods (in python modules) to access (remote) services
- Can automate the access process

. . .

- Often provided by service provider
- Also "unofficial" API by "private" programmers

Let us jump to the examples (notebook of today)



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End of www

Bern, 2019-08-23