Web Application Architectures
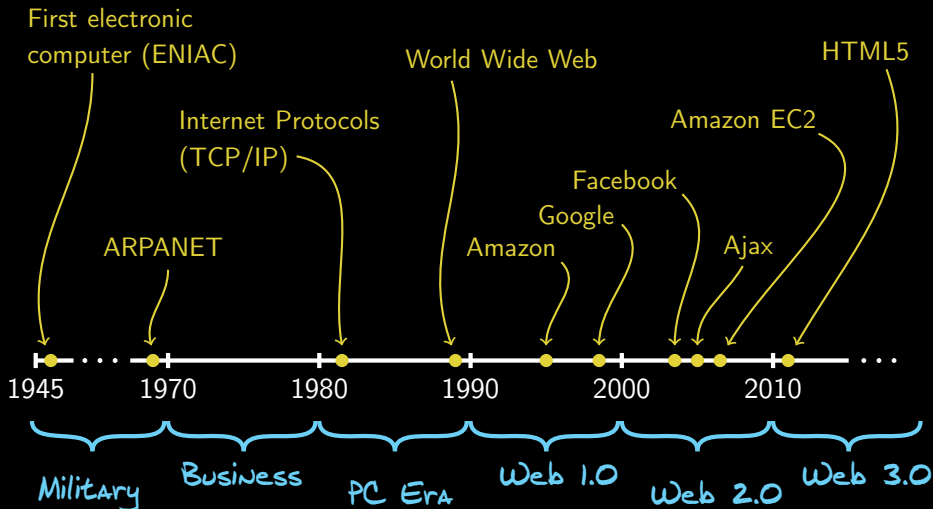
Module 1: Introduction and Background
Lecture 1: Historical Perspective

THE UNIVERSITY *of*
NEW MEXICO

First electronic computer (ENIAC)

World Wide Web

HTML5

Internet Protocols (TCP/IP)

Amazon EC2

Facebook

Google

ARPANET

Amazon

Ajax

1945   1970   1980   1990   2000   2010

Military   Business   PC Era   Web 1.0   Web 2.0   Web 3.0

Web 1.0, 2.0, 3.0

Web 1.0 – Creation of static web sites, the first web business models.
Web 2.0 – Interactivity (Ajax), social networking, mash-ups, media sharing, online commerce, lightweight collaboration, wikis.
Web 3.0 – The "intelligent web", i.e., machine-facilitated understanding of information. E.g., semantic web, NLP, machine learning/reasoning, recommender systems.

Enablers of Web 2.0 and 3.0 —

- JavaScript, XML, JSON (Ajax).
- Web services interoperability.
- Infrastructure-, platform- and software-as-a-service capabilities, i.e., cloud computing.
- Mobile platforms and apps leading to ubiquitous computing.
- Metadata, linked data and machine processing by intelligent agents.