# Web Overview

Revolutionary Event From Evolutionary Building Blocks

# Web Revolutionary Event From Evolutionary Building Blocks

For a Collective Thought Organism
This was Our Break thru

## Internet TimeLine



COLLEGE

- 1960 APARNET
- 1965 HyperText was Coined
- 1971 TCP/IP, FTP, Email using APARNET
- 1982 TCP/IP Stack was Formalized The Standard
  - IP Address for All Devices (Router to Local Devices)
  - TCP Protocols Get and Put
- January/1983 Internet was Officially Created
- 1989 HTML SGML Instance
  - Standard Generalized Markup Language
    - IBM → ISO/OSI Standard
- 1991 HTTP over Internet using TCP/IP Get Put

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Web Overview

## Web Timeline

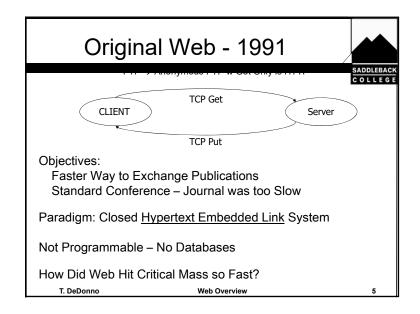


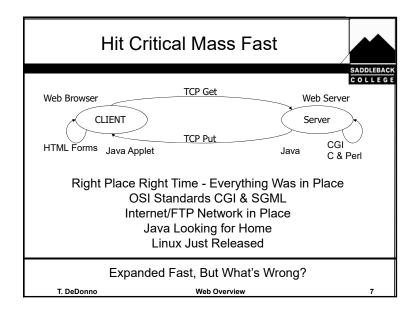
COLLEGE

 1991 WWW based TCP/IP Stack Internet HTML GUI Interface to Exchange Publications

- 1992 Java Client Java Applets
  - Server End: Java, Perl, CGI DB Interface
- 1995 Dedicated Languages for the Web
  - Perl → PHP (PHP hypertext preprocessor)
  - JavaScript Programming Language for Client
- 1995-1997
  - PHP was used to write CMS (Content Management System)
     Goal Automate the process of Creating Web Content
  - CSS "Presentation Language of the Web"
- 2003 WordPress 1st Release the CMS System
  - Web Log (Log is File w Date/Content– Web Dairy) → Blog
  - Blogger one who maintains a Blog (Now Digital Content Creator)
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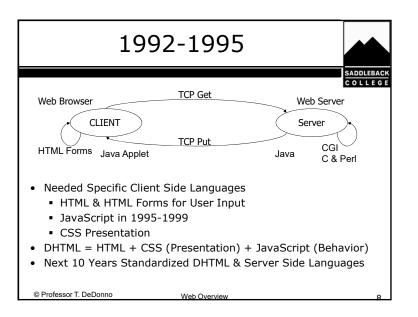


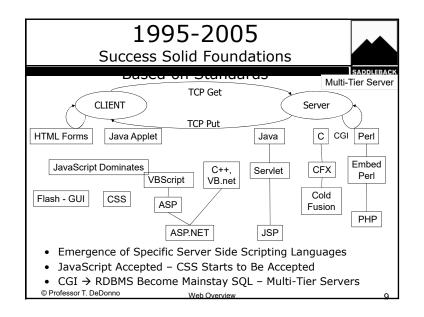


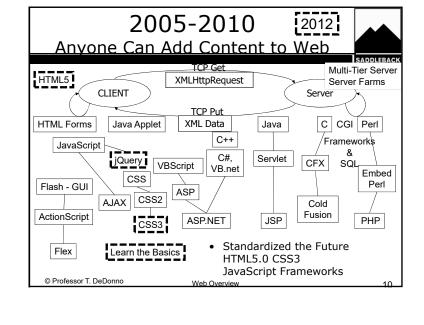
# Evolutionary Building Blocks Microprocessor Proliferation of Low-Cost Client HW/SW PCs Routers → Handle a Lot of Network Users Low-Cost Server HW → Server Farms Internet-TCP/IP (ftp) → Web (http) 1992 Anderson Added a GUI Mosaic Right Place Right Time Linux – Low-cost Free Server Side OS Java Server Programming & SQL Database Standard A Pache – Open Source comes of Age Just an Integration Task

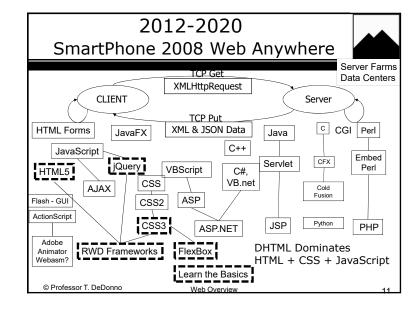
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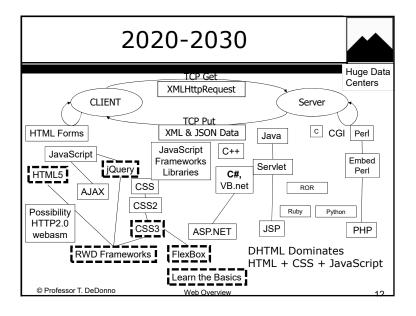
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# Web Hits Critical Mass Fast



- Web Revolutionary Event From **Evolutionary Building Blocks** 
  - Right Place Right Time
    - 1992 SQL Database Standard
    - 1992 Java Announced
    - Inexpensive Fast Microprocessor
  - The Integration Task of our Species
- Smart People Created the Right Standards
  - DHTML = HTML ("markup Language")
    - + CSS Presentation Display
    - + JavaScript Action/Behavior

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## What is the Cloud



- Internet/IP Service
  - Took Advantage of Massive Web Scale
- What is a Cloud Service?
- Software as a Service (SaaS)
  - Google Docs, Office 365, Adobe Creative Cloud
- "Hardware" Infrastructure as a Service (laaS)

Web Overview

- Microsoft One Drive PC
- Android Phone Google Drive Pictures
- More About Cloud

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# Cloud Hits Critical Mass Fast



- Huge Data Centers
  - Massive Server Farms
  - Web Servers <u>Databases & Programs</u>
    - Canvas Ruby/RoR,
    - FaceBook PHP Server Front-End
    - Amazon eBay Java Based
- Next Stage Web Sites to Web Services → Cloud

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