

# Prelims

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## Overview of the WWW

- Web Technologies
  - HTTP
  - URL
  - HTML
- World Wide Web
  - uses client-server architecture
  - collection of:
    - Web resources
    - Applications
      - Used to access Web resources
      - Uses the Internet as a medium
      - Two forms
        - Web server
          - Hosts/houses electronic resources
          - Responds/serves clients
        - Web client
          - Sends requests for Web resources from a server
  - “Spider”
    - Applications that crawls through the Web
  - developed by Sir Tim Berners-Lee
    - Father of modern Web
    - Proposed the Web in 1989
    - Worked at CERN

- Motivation in creating the Web is for scientists to share resources or documents and scientific research
- Web browser
  - Typical tool to interact with the WWW
  - Categories of Browsers
    - Static
      - As is
    - Dynamic
      - Generated on the fly
- Hypertext
  - Documents containing links to other documents
- Hypermedia
  - In the forms of graphics, movies, videos, music, etc.
- Internet
  - made up of the following:
    - hosts
    - media
    - protocols
  - World Wide Web
    - application that uses the Internet
- How the Web works
  1. Type in the URL (Uniform Resource Locator)
    - Basic structure: <http://www.facebook.com/index.html?useraswqe>
    - Consists of the protocol, hostname, name of resource, query (optional)
  2. DNS (Domain Name System)
    - Finds the IP address matching the hostname

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- Web debugging proxy
  - Eavesdrop/captures information between the client and server
  - e.g., *Fidler*