Nuts and Bolts: URL's

INFO 253A: Front end Web Architecture
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URI

- Uniform Resource Identifier
URI - URL - URN

- URI (Identifier)
  - Identifies some resource (e.g. person or file)
- URL (Location)
  - Specifies the Location of an identifier
  - Implies availability
- URN (Name)
  - Specifies the Name of an identifier
  - Does not imply availability
Example

- Full URI
- URL Portion
  - http://www.yelp.com/biz/jupiter-berkeley
- URN Portion
  - www.yelp.com/biz/jupiter-berkeley#query:jupiters
Resource

- Any concept you can name or identify
- So far, typically files
- Also generated pages, like a user profile
Components

Scheme

- **http://www.yelp.com/biz/jupiter-berkeley#query:jupiters**
- Specifies how the rest of the URI is laid out
- Typically protocols
Hierarchical

- "Directions" to the resource through hosts and folders
Domain / Hostname

- "Site" or machine name
Path

- Similar to directories, but not necessarily linked!
- Groups common resources together
Path

- Relative
  - biz/jupiter-berkeley#query:jupiters
- Absolute
Query (Optional)

- https://www.google.com/?q=ischool&ref=class
- Starts with ?
- key=value pairs, delimited by &
- NOTE: This is one way of sending parameters to a server
Port Number

- Specifies a port number to connect to
- Ports are like doorways to a server
- Common ports: 80 for HTTP, 443 for HTTPS
Fragment

- Specify a sub-resource, eg. a section on a page
- Browser will jump to element id
Questions