

Nuts and Bolts: URL's

INFO 253A: Front end Web Architecture

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URI

- Uniform Resource Identifier
- <http://www.yelp.com/biz/jupiter-berkeley#query:jupiters>

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
 - <http://www.yelp.com/biz/jupiter-berkeley#query:jupiters>
- 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

- <http://www.yelp.com/biz/jupiter-berkeley#query:jupiters>

Scheme

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

Hierarchical

- <http://www.yelp.com/biz/jupiter-berkeley#query:jupiters>
- "Directions" to the resource through hosts and folders

Domain / Hostname

- <http://www.yelp.com/biz/jupiter-berkeley#query:jupiters>
- "Site" or machine name

Path

- <http://www.yelp.com/biz/jupiter-berkeley#query:jupiters>
- Similar to directories, but not necessarily linked!
- Groups common resources together

Path

- Relative
 - `biz/jupiter-berkeley#query:jupiters`
- Absolute
 - `http://www.yelp.com/biz/jupiter-berkeley#query:jupiters`

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

- <https://www.ischool.berkeley.edu:443/index.php>
- Specifies a port number to connect to
- Ports are like doorways to a server
- Common ports: 80 for HTTP, 443 for HTTPS

Fragment

- http://en.wikipedia.org/wiki/URI_scheme#Examples
- Specify a sub-resource, eg. a section on a page
- Browser will jump to element id

Questions