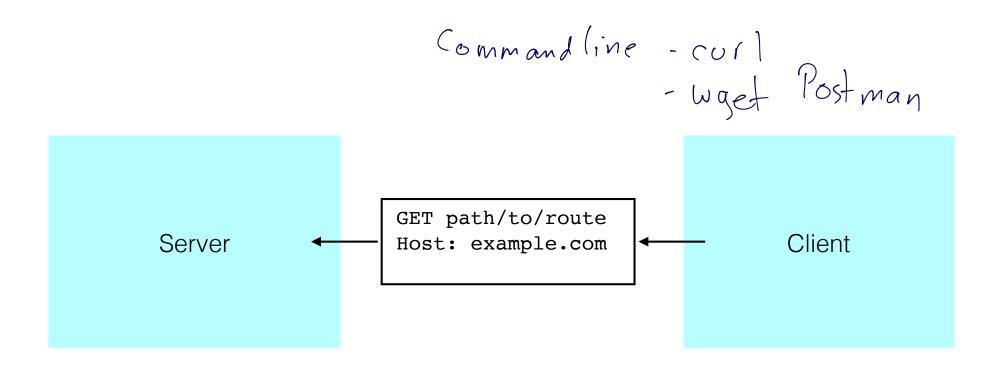
CSC 309 The Big Picture

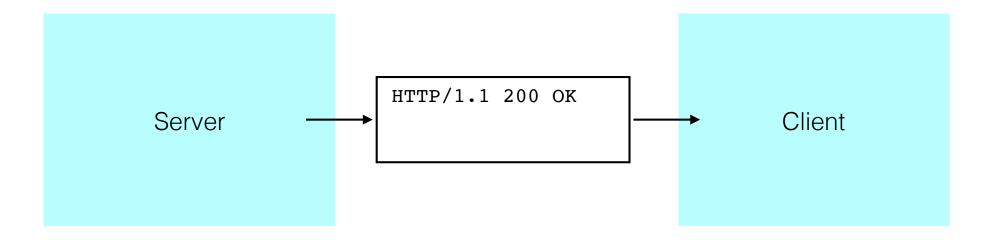


Client sends HTTP request to server

Server

- . Process listening on aTCP socket
 - processing request send a response

What is the server?



Pesponse?

Text	200 - success	
Status?		3xx - redirect
Status?		4xx - client error
Status?		5xx - server
CSS, Savascript	emor	

Server

• Main task of the server is to...

 Server Techno 	logies:
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map from URL to method in server · Express - framework - minimalist

- middlemare - body-parser

lis fs middlewas · Node · 18 javascript rontinne · continuous non-blocking - single threaded - event loop

File relational

A algebra

No SQL

Mongo OB

dex ments object storag - Mongo OB · Persistant data-

BSON C Binary JSON

7

• Server Architecture: N-tier

Myc - Models - represent + store clade

- Controller - logic - manipulate model

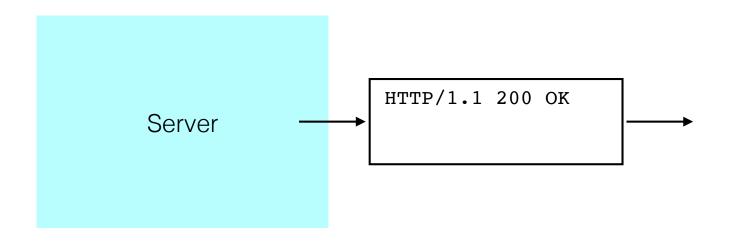
- View - what the user sees

• Value of a framework?

- reusable code - hondle common operation

- separate logic

- opinionale d'frameworks enforce good paradice



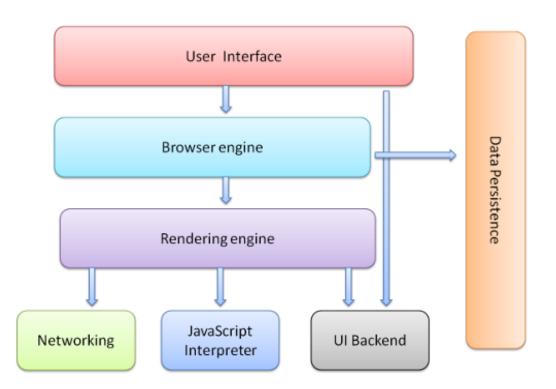
• Sends back data - type?

Browser

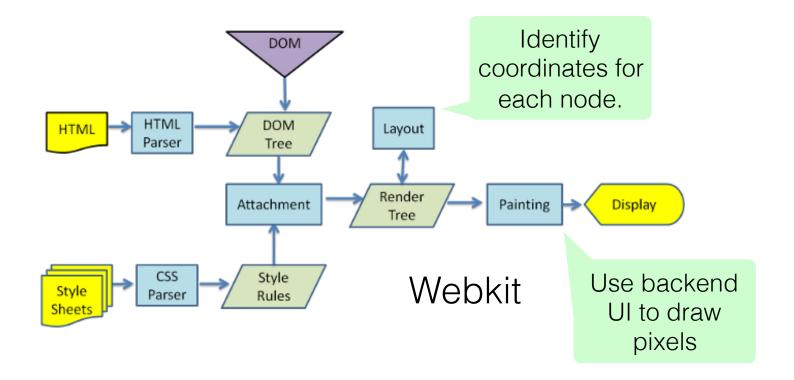
Browser displays the resource you requested

• How?

- User Interface
 - Address bar
 - Forward/back buttons, etc
- Browser Engine
 - marshals actions between UI and rendering engine
- Rendering Engine
 - displays requested content
- UI Backend
 - Used for drawing basic objects like windows



• What is the DOM?



- DOM is the data structure that results from parsing the HTML
- The DOM is combined with CSS rules to form the render tree for painting

HTML

- Mixture of semantic and layout information
- Hierarchical structure matches the DOM
- Elements, attributes
- Forms

• What is HTML?

• How does it relate to the DOM?

• What is CSS? (How does it work?)

• How is Javascript used in the browser?

• What is JQuery? What is it for?

• What is Ajax?

• REST