

## CSS level 3

### W3C States

- working draft
- last call
- candidate recommendation
- proposed recommendation
- published recommendation

### Html time line

- 1995 - Html 2.0
- 1997 - Html 3.2
- 1998- Html 4.0
- 2000- xhtml 1.0
- 2010- Html 5.0

### Modules

- future editions of css will update existing modules or add new ones
- evolve independently of each other

### CsS 3 new properties

- border radius
- box shadow
- text shadow
- rgba
- @fontface
- multiple columns
- selectors
- box Resize
- box sizing
- outline
- transitions
- transform
- gradients

Vendor prefixes - add support for new css features for browsers that adopt them early

### Preprocessors

- css animation
- vendor prefixes
- can be auto-generated with Preprocessors
- sass

### CsS transitions

- transition-Property
- transition-duration
- transition-timing-function
- Transition: all 500ms ease-in-and-out (short hand)

Transition-property

- all
- background
- color

Transition-duration

- s
- Ms

Transition-timing-function

- ease > slow start
- linear > slow speed
- etc, missed slide

Transition code

CSS grid

- powerful layout system
- divides page into grid
- defines relationships between areas
- responsive ready

## **Responsive web design / Mobile Web**

Viewport

- website scales to fit phone

Responsive web design

- fluid grid
  - element width defined by percentages
  - container=max-width
- breakpoints
  - fluid grid breaks layout
- @media query
  - used to define different style rules for different media types / devices
  - width of Viewport
  - orientation
  - resolution

Viewport

- Html meta tag that controls scale (zoom)
- turns off automatic scaling of mobile devices
- Responsive don't mean a thing if it ain't got that Viewport

Flexbox & CSS grid

\*

Adaptive design

- Responsive plus addition of phone specific features

Mobile first design

start from designing for phone and go towards desktop

Netscape created lifestript

Liscensed Java from sun and changed the name to JavaScript

W3C standardized JavaScript and called it ecmascript, but no one calls it that

Web api (application program interface)

Old JavaScript functionality

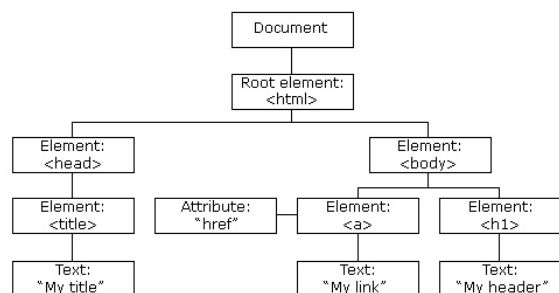
- Animation
- Rollovers
- Replaced by html5 and css3
- But html and css are not self aware

JavaScript can

- Validate data
- Handle events
  - Listeners/handlers
- Manipulate the DOM

DOM- Document object model

- Convention for representing and interacting with objects in html
- Represented by the dom tree



DOM Tree

When browser loads anthology pages it is rendered and displayed on the screen

JavaScript uses the object model to create dynamic html

- Can add, change, and remove all the html elements and attributes in the page
- Can change all the css styles in the page
- Can react to all existing events in the page
- Can create new events in the page

Script- a series of instructions that a computer can follow to achieve a specific goal, small or big

## More web history

Zeitgeist- the spirit of the time, dominant set of theories and ideas

Dreamer of dreams

- Anticipation of the existence of worldwide networks of information
- Visionaries imagining the possibility of collecting and sharing the knowledge of humankind

Tesla

- Proposed world wireless system would in theory provide wireless telecommunications and electricity

Paul Otlet

- Belgian author, entrepreneur, visionary, father of information science
- Envisioned World Wide Web before computer was invented
- Original “googlebot”
- The mundaneum- original semantic web
  - Machinery unaffected by distance which would combine technology from afar so people can access it and ponder the world from their armchair
- Hitler destroyed the mundaneum to put in third reich art

Vannevar Bush

- American engineer, inventor, science administrator
- Godfather of the wired age
- 1945 essay “as we may think”
- Memex

Theodore Nelson

- Coined hypertext
- Project Xanadu
  - Everything is deeply intertwined

JCR Licklider

- Internet pioneer, visioned intergalactic network
- ARPANET
  - Advanced research projects agency network
  - First workable prototype of the internet
  - Packet switching and TCP/IP

Is internet a catalyst for our zeitgeist

Science fiction sometimes accidentally predicts the future

- Mundaneum
- Project Xanadu

If the service is free, the product is you

- Data, relationships, preferences

- Hyper-beings?