HTML

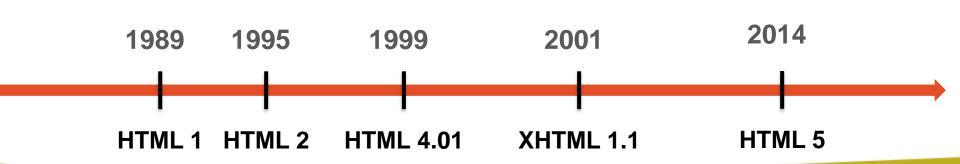
I've seen the
FUTURE
It's in my
BROWSER



{coding_academ

What is it?

HTML5 is a markup language used for structuring and presenting content on the World Wide Web.



The Process of approving features by all browser vendors

HTML5

Taxonomy & Status (October 2014)

Recommendation/Proposed

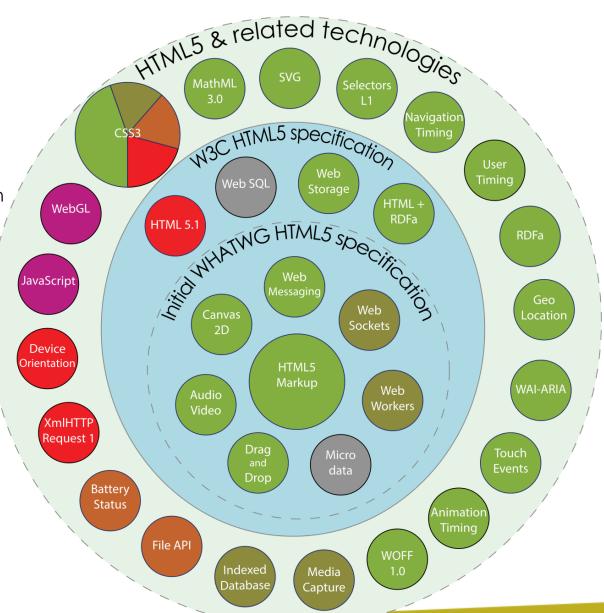
Candidate Recommendation

Last Call

Working Draft

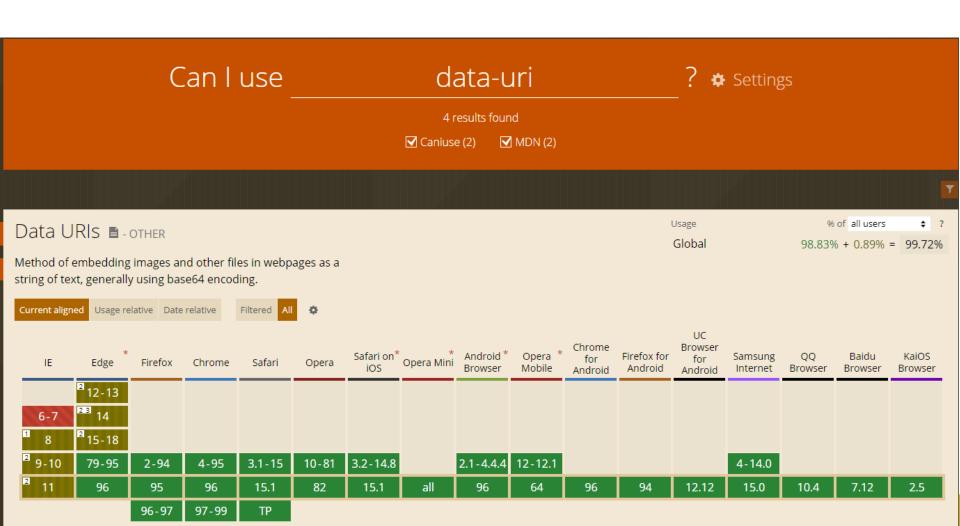
Non-W3C Specifications

Deprecated or inactive



Can I Use?

Sometimes we should validate that the feature we are using is widely supported, useful tool is can-i-use



Web Storage

localStorage & sessionStorage

- Store string typed key-value pairs on client side
- ~5MB per domain (4KB per cookie)
- sessionStorage: short-term, tab (window)
- localStorage: long-term, browser
- Doesn't work in private-mode
- Don't use for sensitive data store!



```
localStorage.setItem("favColor", favColor);
localStorage.favColor = favColor;

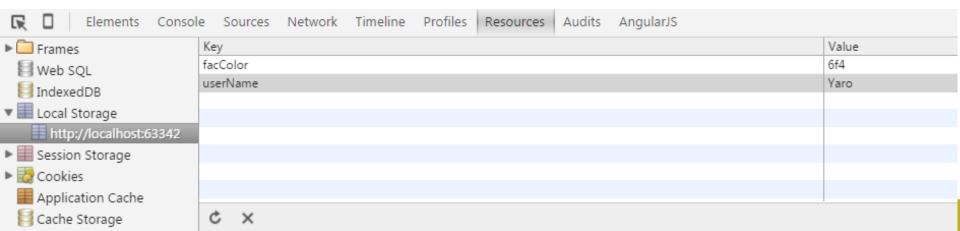
var favColor = localStorage.getItem("favColor");
var favColor = localStorage.favColor;
```

Web Storage

Tips

- use JSON.parse() / .stringify() for anything (e.g. booleans)
- Use browsers debugging tools





Semantic Elements

- <section> a section in a document
- <article> independent, self-contained content
- <nav> a section with navigation links
- <main> the main content
- <aside> content aside from the content it is placed in
- <header> container for introductory content
- <footer> defines a footer for a document or section
- <time> a human-readable date/time

Video & Audio

- Built in video/audio support
 - Codecs and fallbacks

Video & Audio

JS API, such as:

Method	Description
<u>load()</u>	Re-loads the audio/video element
play()	Starts playing the audio/video
pause()	Pauses the currently playing audio/video
<u>volume</u>	Sets or returns the volume of the audio/video

Content Editable

- Turns an element into an editable area
- Can be applied to almost any element
- Can be applied even to <style> element
- Save / undo changes can be done by JavaScript

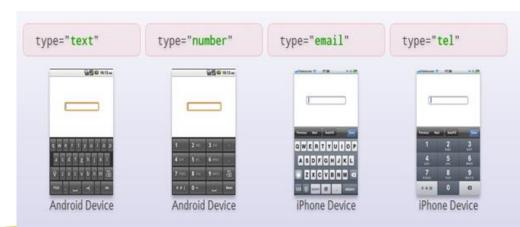
```
  Some Content to Edit
```

Yes, its powerful

Form Elements and Attributes

Input types

- tel phone numbers
- search search bars
- email email addresses
- range range of numbers
- color color picker
- date picker (datetime TZ, date-local, week, time, month)
- time time picker
- file upload multiple files
- url links



Form Elements and Attributes

Attributes

- placeholder sets place holder string for input elements
- data-* custom element attributes
- autofocus focus control during page load
- autocomplete (on / off) stores input for future use
- multiple allows multiple values in file / email inputs
- list offers predefined values but accepts free text
- form allows placing an input outside the form

Form Elements and Attributes

Validations

- required valueMissing
- type typeMismatch
- pattern patternMismatch
- maxLength tooLong
- min rangeUnderflow
- max rangeOverflow
- step stepMismatch
- setCustomValidity(message) customError
- Appearance can also be modified (:invalid, :required)
- Turning form validation off
 - novalidate form attribute, Empty value formonvalidate submit button attribute



Geo Location

navigator.geolocation.getCurrentPosition(showLocation, handleLocationError);



Geo Location

- IP based: old-fashion, inaccurate & unreliable but always available
- GPS: Very accurate but is only available on open spaces
- Wi-Fi based: Very accurate and available even in buildings but requires several Wi-Fi spots
- Cellphone: Location is set by its distance from cellular antennas



Summary

- HTML5 gives us some new super powers
- Enjoy it!

Next Steps:

Go Build an awesome web application

