

HTML5

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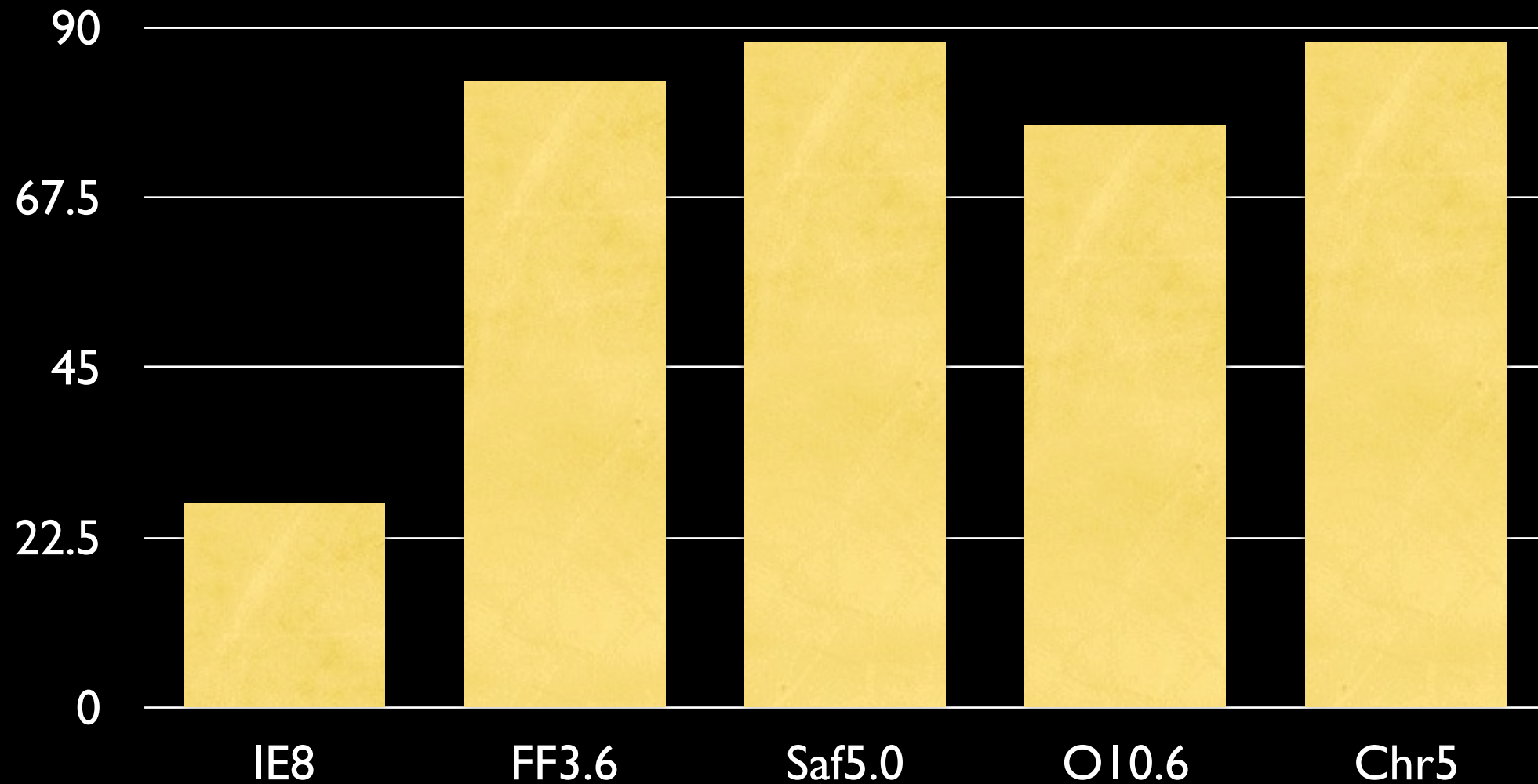
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HTML5

- Work Started in 2004
- Gaining adoption as browsers support it

HTML5 Support

■ HTML5 % of Features Supported



source: caniuse.com

What's New

- Layout / Semantic Tags
- Form Controls
- Multimedia Support
- Drawing API's
- Storage API's

HTML5 Not Just Tags

- HTML Consists of much more than new tags and attributes
 - Also defines new JavaScript API's

HTML5 DocType

HTML5 DocType

- `<!doctype html>`
 - Puts Older browsers into standards mode.
 - So you can use it now

Semantic Tags

- Researchers found that some of the most common classes or id's placed on div are:
 - header
 - footer
 - nav
 - article
 - section

HTML5 Semantic Tags

- `<header> ... </header>`
- `<nav> ... </nav>`
- `<article> ... </article>`
- `<section> ... </section>`
- `<footer> ... </footer>`

HTML5 Semantic Tags

- Can be styled with CSS on older browsers, with one exception...
 - Can you guess which browser?

<!--[if IE]>

- <!--[if IE]> to the rescue once again:
- <http://remysharp.com/2009/01/07/html5-enabling-script/>

Additional New Tags

- `aside`
- `hgroup`
- `figure`
- `figcaption`

Form Controls

- HTML5 Defines new input type=values

New Input Types

- Search
- Telephone
- URL
- Email
- Date / Time

New Input Attributes

- min
- max
- multiple (upload multiple files)
- step
- placeholder
- autocomplete
- pattern

Video

```
<video src="video.mp4" />
```

OR

```
<video>
```

```
  <source src="video.mp4" />
```

```
  <source src="video.ogv" />
```

Browser Does not support video tag.

```
</video>
```


Audio

```
<audio src="tunes.mp3" />
```

OR

```
<audio>
```

```
  <source src="tunes.mp3" />
```

```
  <source src="tunes.ogg" />
```

Browser Doesn't Support Audio Tag

```
</audio>
```

Common Media Attributes

- controls
- autoplay
- preload
- loop

Drawing API's

- `<canvas>` tag is used to mark a drawing area on the page.
- You can then draw 2d or 3d using JavaScript.
- Demo

Storage API's

- `sessionStorage`
 - Store data for a Single Window
 - `sessionStorage.setItem('key', 'value');`

Storage API's

- `globalStorage` - Store across sessions
 - `globalStorage["example.com"].key = val;`

Storage API's

- SQL Databases
 - Transactional SQL Database
 - Current implementations use sqlite

There's even more

- Geo Location API
- Cross Document Messaging
- Web Sockets
- Web Workers
- Much More

Links

- Browser Support
 - <http://caniuse.com/>
- HTML5 Presentations
 - <http://www.addyosmani.com/html5/>
 - <http://slides.html5rocks.com/>
 - <http://slidesix.com/view/html5>

Questions?
Thanks.