TALK OUTLINE

- Why does HTML validation matter?
- What is HTML-Validate and how is it used?
- What about SPA, custom elements and js-frameworks?
WHY DOES HTML VALIDATION MATTER?

Different answers for different stakeholders.
WHY DOES HTML VALIDATION MATTER?

END USERS

- Consistent behaviour across devices
- Consistent behaviour across updates
- Accessibility
WHY DOES HTML VALIDATION MATTER?

MACHINES
A `p` element's end tag can be omitted if the `p` element is immediately followed by an `address`, `...]` element.
Contact me at:

Fred Flintstone
345 Cave Stone Road

Contact me at:

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A p element's end tag can be omitted if the p element is immediately followed by an address, [...] element, or if there is no more content in the parent element and the parent element is an HTML element that is not an a, [...] element.

Legal:  

```html
<div>
  <p>Lorem ipsum
</p>
</div>
```

Illegal:  

```html
<a>
  <p>Lorem ipsum
</p>
</a>
```
4.5.10 The ruby element

Content model: See prose.
WHY DOES HTML VALIDATION MATTER?

MACHINES

- Eliminates guesswork
- Better compatibility between browsers
- Easier for search engines
- Easier for accessibility tools
WHY DOES HTML VALIDATION MATTER?

BUSINESS

- Future proofing
- Stability
- Less bugs
WHY DOES HTML VALIDATION MATTER?

DEVELOPERS

- Markup can be confusing or misleading
- Technically valid code is often not best practice
- Prevents using obsolete or deprecated techniques
- Debugging
If there is already an attribute on the token with the exact same name, then this is a duplicate-attribute parse error and the new attribute must be removed from the token.
VALIDATING HTML
VALIDATING HTML

W3C MARKUP VALIDATION SERVICE

- Official
- Online
- Documents only
- No best practices
- Only rudimentary WAI-ARIA
- Only rudimentary A17Y
VALIDATING HTML OTHERS TOOLS

- Too many to name
- Two categories:
  - String based
  - Virtual DOM such as JSDOM
HTML-VALIDATE
HTML-VALIDATE

- Offline
- Strict
- Non-forgiving
- Parse fragments
- Extendable and data-driven
- Supports frameworks
HTML-VALIDATE

DESIGN GOALS

- HTML5 only
- No unnecessary dependencies
- Non-opiniated
HTML-VALIDATE

USAGE

npm install html-validate
html-validate my-file.html
<template>
  <div>
    <img :src="myHref"/>
  </div>
</template>

W3C Markup Validation Service:

Error: Element img is missing required attribute src.
Error: Attribute :src not allowed on element img at this point.
<template>
  <div>
    <img :src="myHref">
  </div>
</template>

{ "extends": [ "html-validate:recommended" ],
  "elements": [ "html5" ] }
HTML-VALIDATE

FRAMEWORKS

- HTML-Validate core does not understand frameworks.
- A plugin is needed to handle frameworks.

In this case html-validate-vue can be used.
<template>
  <div>
    <img :src="myHref">
  </div>
</template>

1 { 
2   "extends": [ 
3     "html-validate:recommended",
4     "html-validate-vue:recommended"
5   ],
6   "elements": ["html5"],
7   "plugins": ["html-validate-vue"]
8 }
Does not yet support branching in server-rendered code, e.g. ejs, jinja2 etc.
HTML-VALIDATE

CUSTOM ELEMENTS

```json
{
    "extends": [
       "html-validate:recommended",
    ],
    "elements": [
       "html5",
       "./elements.json"
    ]
}
```
HTML-VALIDATE

INTEGRATIONS

- VSCode
- Jest
- Cypress
HTML-VALIDATE

PR'S WELCOME

- More framework plugins
- More integrations with tooling
- Webpack/Browser support (config overhaul)
- New rules
- Documentation
HTML-VALIDATE

QUESTIONS?

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https://html-validate.org/
https://gitlab.com/html-validate