I HAVE 'EM:

BUILDING WEB COMPONENTS OR:

LESSONS
THE MEOWNICA SCHOOL FOR KIDS WHO WANT TO WEB GOOD AND DO OTHER THINGS GOOD TOO
Meow meow protips meow meow

- @addyosmani
emojineer!

@notwaldorf
@notwaldorf
web components

<fancy-button>
API
MAINTENANCE API
MAINTENANCE

A11Y

API

PERFORMANCE

A11Y
1990s
UNIX

1970s
TAR  PWD  CHMOD  LS  SORT  RM

SED  AWK  GREP  CAT

UNIX

1970s
UNIX

1970s

TAR  PWD  CHMOD  LS  SORT  RM  DU  SED  AWK  LPR  CP  ALIAS
GREP  CAT  RMDIR  MAN  TIME  WHO  HEAD  TAIL  TALK  YES  FIND  ECHO
MORE  LESS  WHOAMI  DIFF  GZIP  TELNET  FTP  GUNZIP  MKDIR  QUOTA  KILL  PS  LYNX  DATE
be like grep
not input
it’s ok to
do one thing
if you do it well
value0f
values
var
composition

play nice with others
<select>
  <option>one</option>
  <option>two</option>
</select>
<select>
  <option>one</option>
  <option>two</option>
  <option>
    <button>button?</button>
  </option>
  <option>
    <input value="input?">
  </option>
  <option>
    <img src="lemon.png">
  </option>
</select>
<select>
  <option>one</option>
  <option>two</option>
  <option>
    <button>button?</button>
  </option>
  <option>
    <input value="input?"/>
  </option>
  <option>
    <img src="lemon.png"/>
  </option>
</select>
<paper-dropdown-menu>
  <paper-listbox>
    <paper-item>one</paper-item>
    <paper-item>two</paper-item>
  </paper-listbox>
</paper-dropdown-menu>
<paper-dropdown-menu>
  <paper-listbox>
    <paper-item>one</paper-item>
    <paper-item>two</paper-item>
    <paper-item>
      <button>button?</button>
    </paper-item>
    <paper-item>
      <input value="input?">
    </paper-item>
    <paper-item>
      <img src="lemon.png">
    </paper-item>
  </paper-listbox>
</paper-dropdown-menu>
<paper-dropdown-menu>
  <paper-listbox>
    <paper-item>one</paper-item>
    <paper-item>two</paper-item>
    <paper-item>
      <button>button?</button>
    </paper-item>
  </paper-listbox>
</paper-dropdown-menu>
extensibility

plan for the future
make no assumptions have no regrets
transparency

don’t hide the state
value = "1234"
value = "1234"

value = ""
1234 value = “1234”

value = “”

1234....00---Ee value = “”
nobody actually actually likes surprises (srsly)
can i have the polyfill on the side pls?
be like grep
not input
maintenance earns trust
semver builds trust
versions have meanings!

1.2.3
patch version

1.2.4

Wow, who knew THAT would break.
minor version

1.3.4

We thought it wouldn't break. Wow, who knew THAT would break.

Dave Methvin
@davemethvin
major version

2.3.4

Dave Methvin
@davemethvin

We know it's gonna break.
We thought it wouldn't break.
Wow, who knew THAT would break.
semver builds trust
testing builds trust
what to test:

the public api
fake

the "private" api

lol JavaScript
what to test: the accessibility
what to test: the accessibility

GitHub: /accessibility-developer-tools
what to test:

the look & feel
what to test:

the look & feel
what to test:

element integration
users have trust
users

need docs

(WTFM)
it's ok to do one thing if you do it well
it’s ok to do one thing if you do it fast
focus on first paint
first paint

do less & be lazy
first paint

do less
attached: function() {

    this.style.pointerEvents = this.disabled ? 'none' : '';
    this.addEventListener('click', this._onClick.bind(this));
}

attached: function() {
    Polymer.RenderStatus.afterNextRender(this, function() {
        this.style.pointerEvents = this.disabled ? 'none' : '';
        this.addEventListener('click', this._onClick.bind(this));
    });
});
first paint
be lazy
testing your
first paint
performance
```javascript
console.time('total');

// Do something here

console.timeEnd('total');
```
results = [];
for (let i = 0; i < 1000; i++) {
  console.time('total');
  console.time('task 1')
  // Do something here
  console.time('task 2');
  console.timeEnd('total');
}
Parse HTML (index.html [1...])
Evaluate Script (index.html:1)
   (anonymous function)

\[
\text{Mi...)} \quad \text{t...} \quad \text{Mi...)} \quad \text{t...d}
\]
let start = performance.now();

// Do something here

let end = performance.now();
let start = performance.now();

let element = document.createElement('video');
document.body.appendChild(element);

let end = performance.now();
let start = performance.now();

let element = document.createElement('video');
document.body.appendChild(element);

let end = performance.now();
results = [];
for (let i = 0; i < 1000; i++) {
    let start = performance.now();

    let element = document.createElement('video');
document.body.appendChild(element);
    element.offsetWidth;

    let end = performance.now();

document.body.removeChild(element);
results.push(end - start);
}
accessibility is like a blueberry muffin

- @cordeliadillon
accessible elements
make accessible apps
focus states
use the platform!

focus states

`tabindex = 0`
use the platform!

focus states

document.activeElement
use the platform!

aria
use the platform!

aria

NAV A ARIA-CHECKED ARIA-SELECTED

ARIA-LABEL ARIA-LABELLED
ARIA-HIDDEN ARIA-DISABLED
ARIA-CHECKED ARIA-SELECTED
accessible

elements »» apps
fast

elements  »  apps
maintainable

elements »» apps
amazing elements »» apps