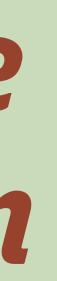
Responsive & Accessible Future Accessibility & Multi-Screen Design

Eric Eggert – Accessibility & Multi-Screen Design – #cos19

Responsive Neb Design



CSS Grids

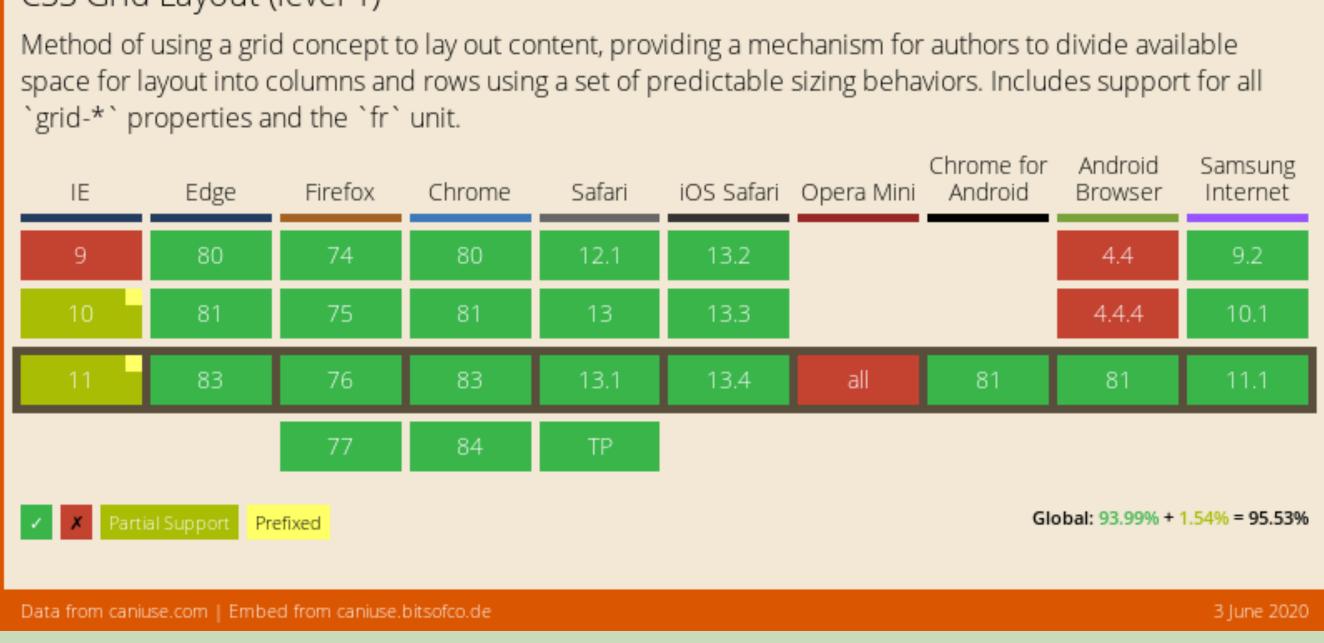
Some great examples:

- → Elliot Jay Stocks
- → Web Design Experiments by Jen Simmons
- → Jazz Poster | Jen Simmons
- → Demo | Jen Simmons Labs
- → Header, as many as will fit, footer
- \rightarrow Header, as many as will fit, some tall, footer

Great Support for Grid

CSS Grid Layout (level 1)

`grid-*` properties and the `fr` unit.



Can I Use: Grid Level 1

Grid "fallbacks" and overrides by Rachel Andrew

Osupports *Feature Queries*



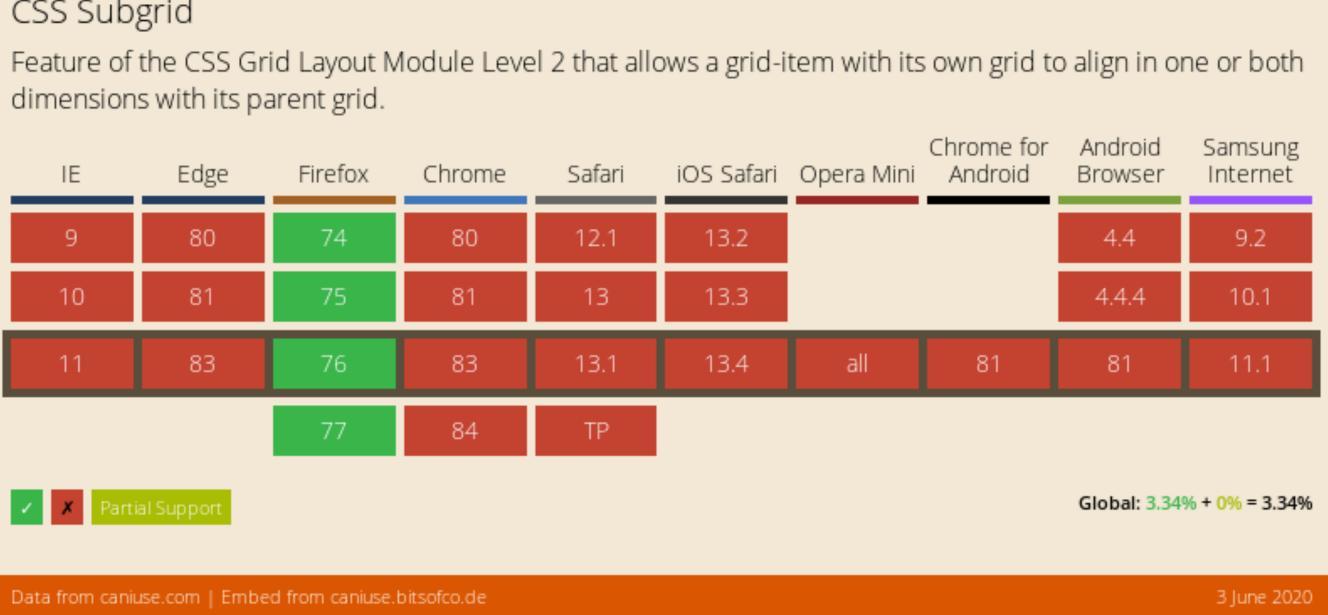
Grids allow for...

- \rightarrow reliable 2-dimensional layouts.
- > mixing fixed-width elements with flexible ones (fr unit).
- → redefining layout from the container a more straight forward responsive workflow.
- \rightarrow *layering items* on the grid.



Subgrids are not well supported

CSS Subgrid



How Subgrids Work by Rachel Andrew

Progressive Web Apps (PNA)



\rightarrow Loads over HTTPS

- Juse Service Workers to provide a offline access
- Prompt users to add to home screen
- → Have mobile friendly layout
- → Uses progressive enhancement
- → Optimizes assets

Service Worker

Basically a small proxy that handles URL requests and can act on them, for example serve a fallback page and caching assets.

Accessibility



The Accessible Smart Home

- → Amazon Echo
- → Google Home
- → HomePod
- \rightarrow Nest Thermostats



Smart Home Accessibility

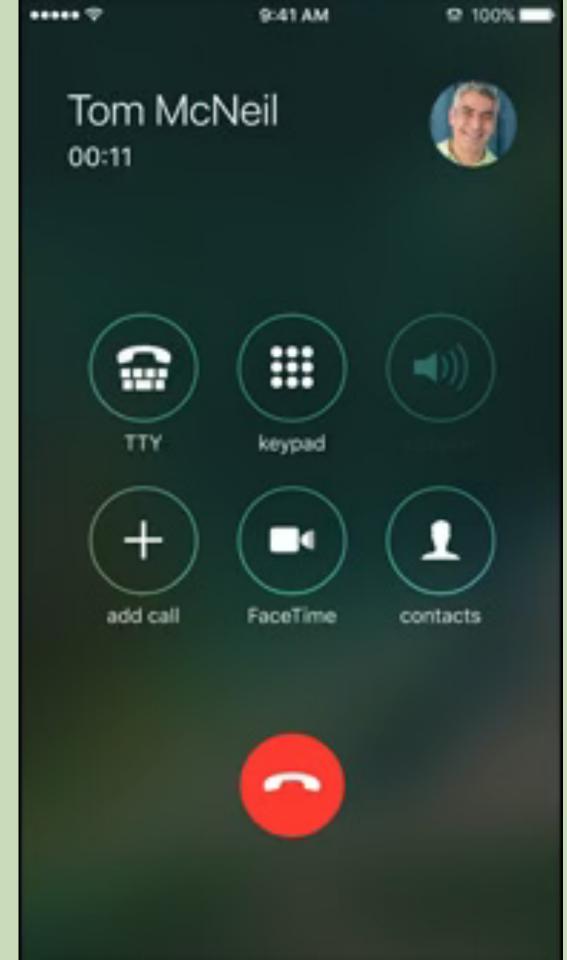
- → Voice Input
- Non-Voice Input
- Accessible configuration



Video Calls

Face Time, Google Duo, Skype, Zoom...







Teletypewriter

Augmented Reality

Color detection, shapes/faces detection



A Peek Inside the Niantic Real World Platform -

🔵 Meet

10:00 AM

-





Source: <a>Otomemrich



Source: <a>OCastIrony



Matt Moss: Control your iPhone with your eyes

Wearables

Watches, Glasses

Apple Match: Visual

- \rightarrow VoiceOver
- → Zoom
- \rightarrow Font Adjustment
- → Grayscale
- → Extra Large Watch Face









Apple Watch: Hearing

- → Taptic Feedback
- \rightarrow Scribble
- \rightarrow Mono Audio



Apple Watch: Physical/Motor



10:09 ROLL

THURSDAY

Time to roll! Take a break and push around a little for one minute.

 $\mathbf{\uparrow}$

Dismiss





Social Media Accessibility



Captions

On YouTube, Facebook

Automatic Captions

On YouTube, usually insufficient, but a good start



Alternative Text

On <u>Twitter</u>

Automatic alternative Text

On Facebook



