

Responsive Web Development & Design

Problems on mobile

- Slow loading.
- Crashes, freezing and errors.
- Bad formatting.
- Not available.







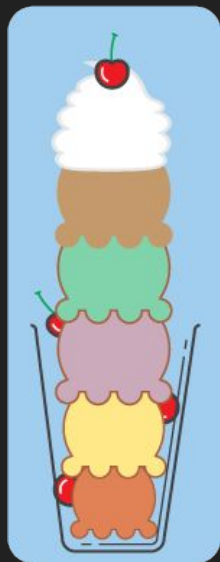
Max Sundae Height

Glass Height

Static!

Relative!

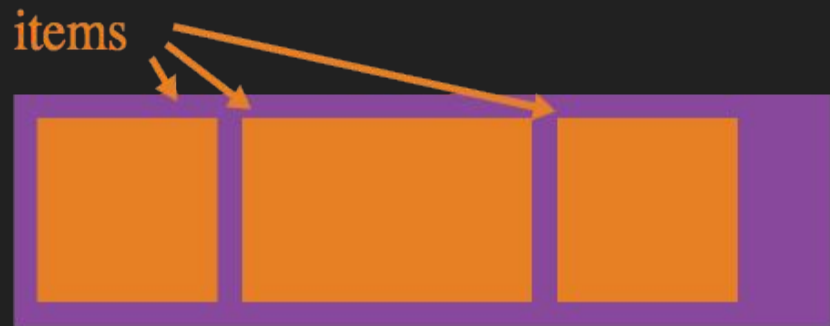
Fixed



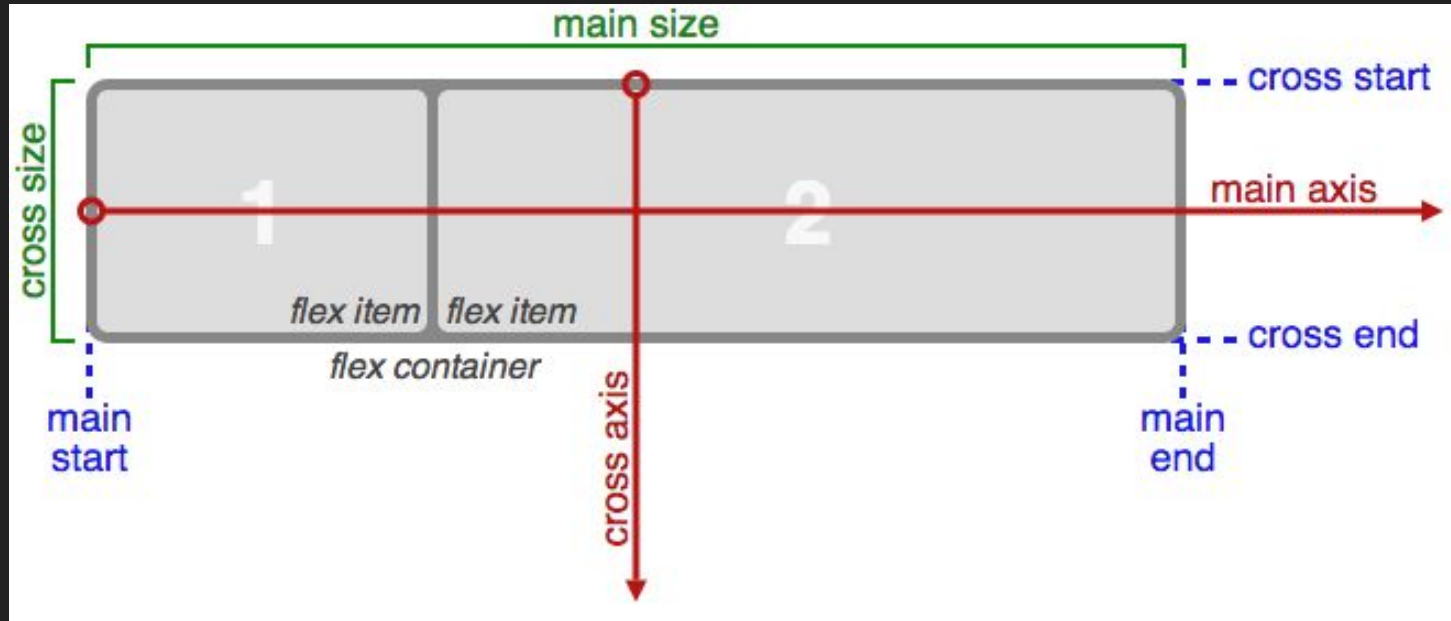
CSS 3

Flexbox

Flexbox Layout



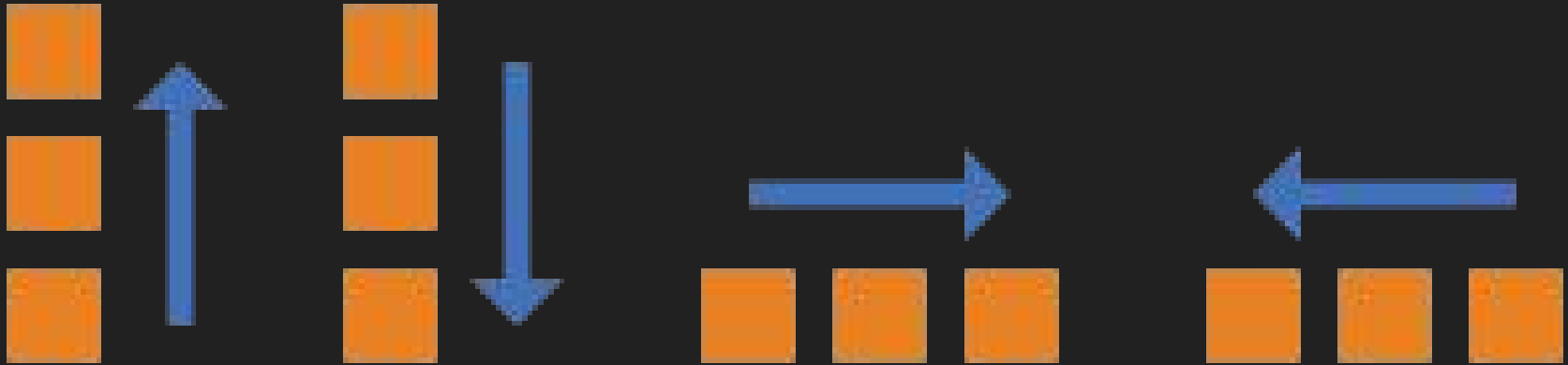
Flexbox terminology



Steps:

1. Create container
2. Fill it with elements
3. Make container flex
4. Done!

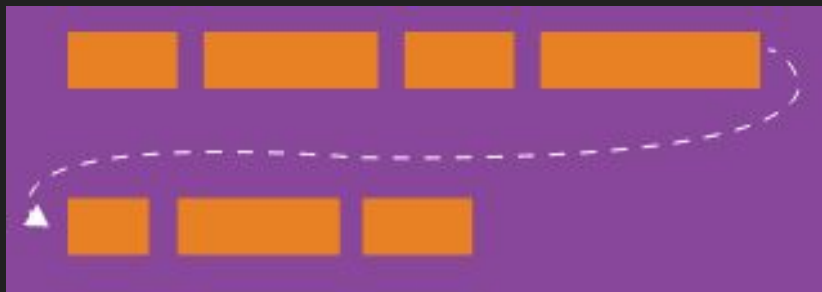
Flex direction



Flex-wrap



Flex-wrap



Justify Content

flex-start



flex-end



center



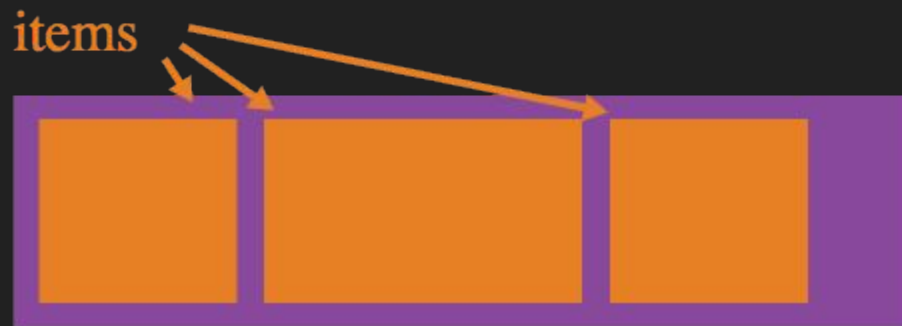
space-between



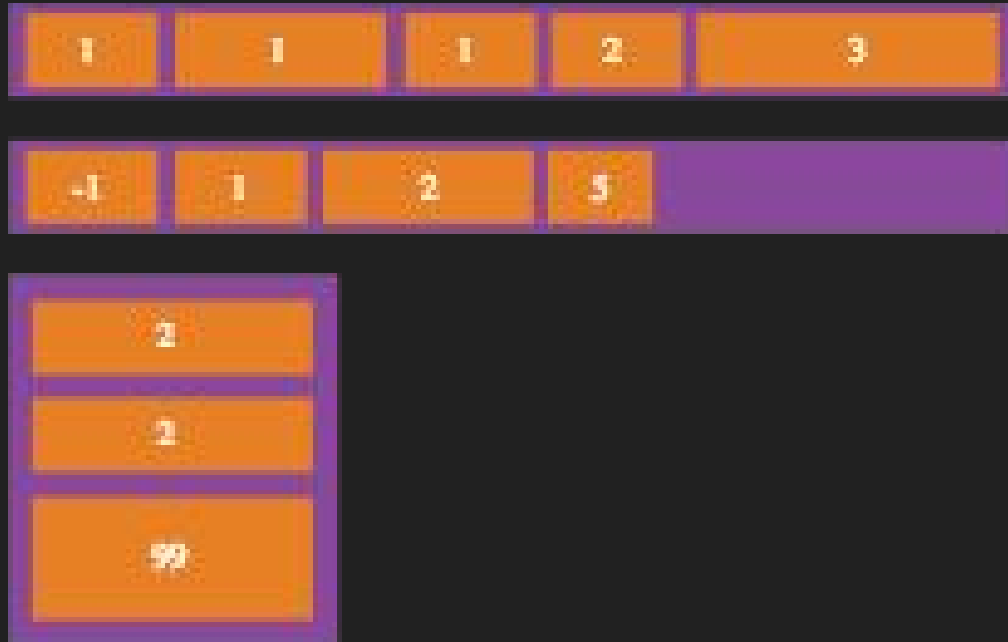
space-around



Flex-items



Flex-order



Flex-grow



Waaaaait...meta port!

```
<meta name="viewport"
```

```
content="width=device-width,
```

```
initial-scale=1.0">
```

What?



What should I do?

- Increase font size.
- Change content size depending on full size.



Advantages

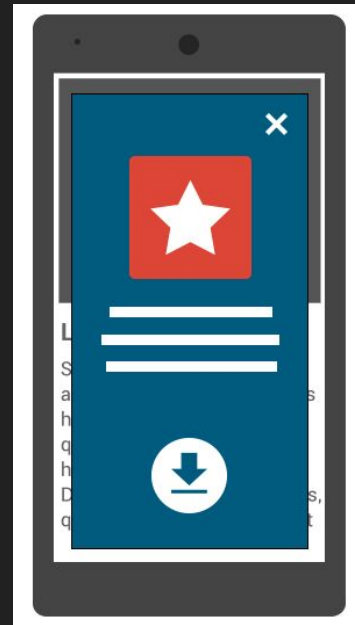
- Appear in Google.
- One link.
- Easier to change and control.
- Avoid common mistakes.
- No redirecting.

Common mistakes

- Blocked javascript and css files.

<https://www.google.com/webmasters/tools/googlebot-fetch>

- Unplayable content.
- Faulty redirects.
- Don't use interstitials
- Touch elements too close
- Small font size
- Slow mobile pages



Mobile First

MOBILE LAST (DEGRADED, SHOE-HORNED, SHORT-SIGHTED, CRAPPY)

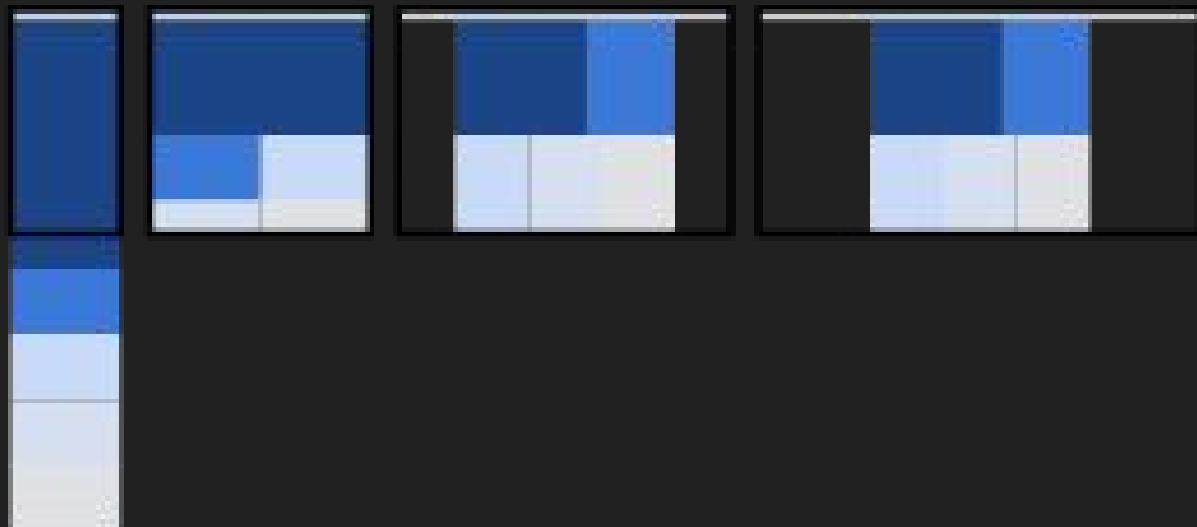


MOBILE FIRST (PROGRESSIVELY ENHANCED, FUTURE-FRIENDLY, AWESOME)



bradfrostweb.com/blog/web/mobile-first-responsive-web-design

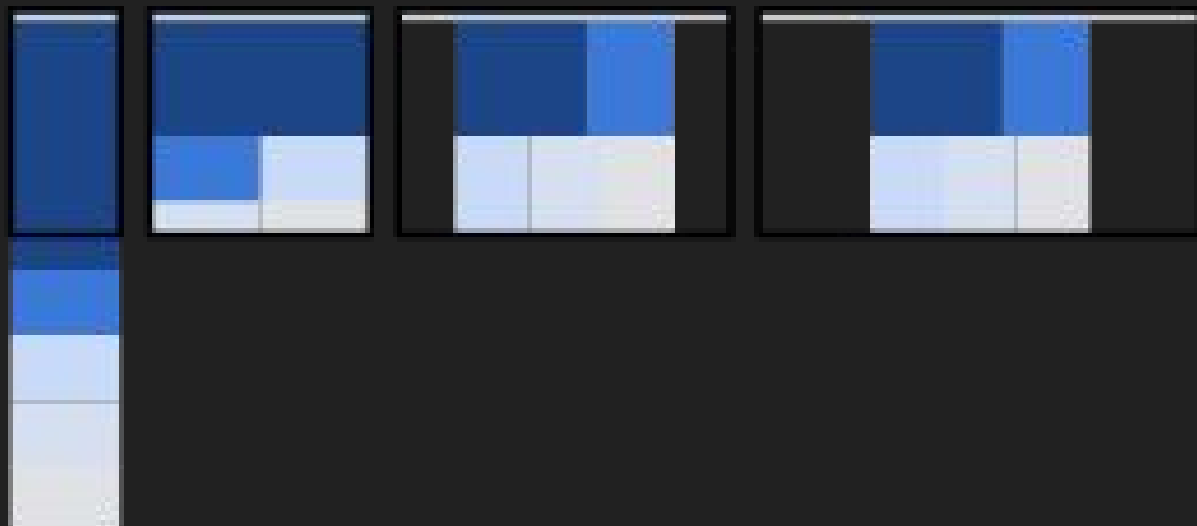
Mostly Fluid



Example

<http://work.simplebits.com/>

<https://googlesamples.github.io/web-fundamentals/samples/fundamentals/design-and-ui/responsive/patterns/mostly-fluid.html>



Column Drop



Examples

<http://weenudge.com/>

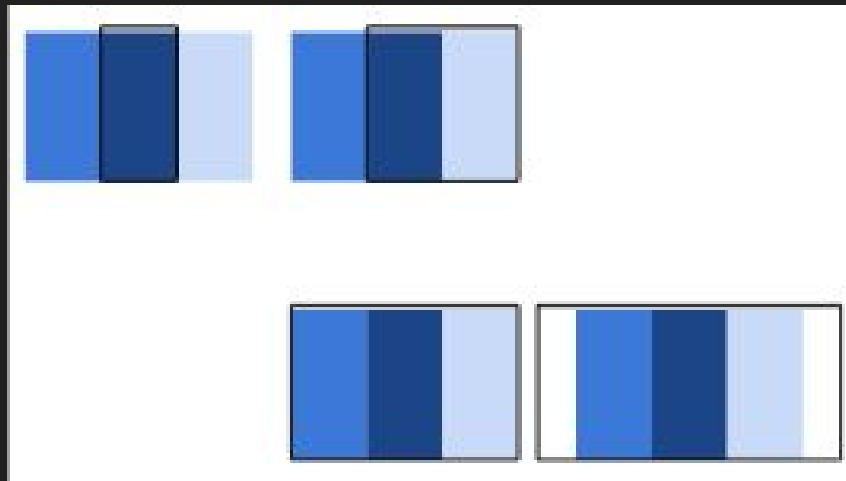
<https://modernizr.com/download?setclasses>

<https://googlesamples.github.io/web-fundamentals/samples/fundamentals/design-and-ui/responsive/patterns/column-drop.html>



Off-canvas

<https://googlesamples.github.io/web-fundamentals/samples/fundamentals/design-and-ui/responsive/patterns/off-canvas.html>

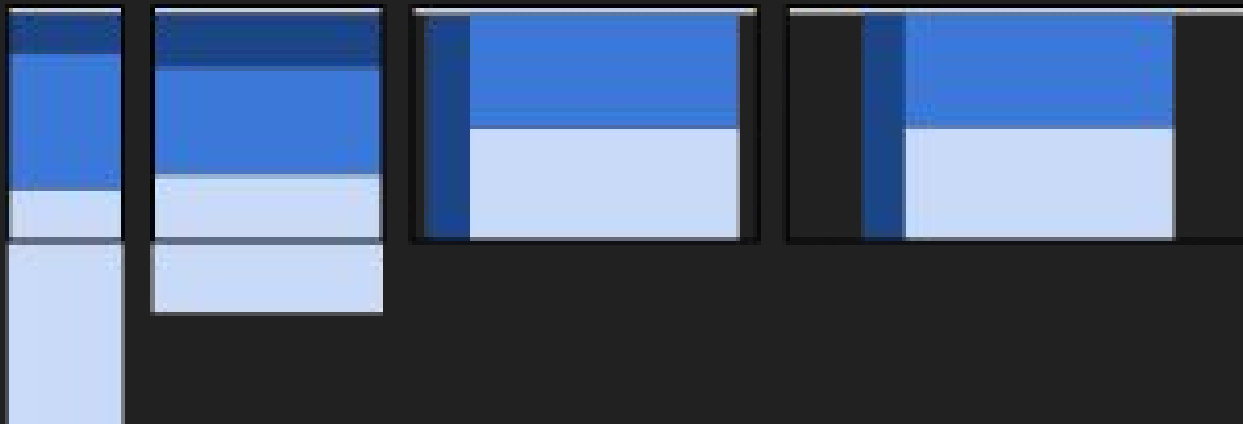


Tiny Tweaks

<https://googlesamples.github.io/web-fundamentals/samples/fundamentals/design-and-ui/responsive/patterns/tiny-tweaks.html>



Layout Shifter



Accelerated Mobile Pages Project

- Instant rendering
- AMP HTML
- Super fast Javascript
- Layout before loading.
 - No recalculations!
- Keep third-party Javascript out of our ways.