

# Today

- Review
- Print styles
- Media Queries
- Feature Queries
- Fonts
- Rems + Ems

# Flex & Grid

One direction & Two directions

# Flex (↓ OR →)

Great at 1 dimensional layout

Works from the content outward

# Grid (↓ AND →)

Great at 2 dimensional layout

Works from the layout inward

**Let's play flex or grid?**

Q: I have stuff I want to space equally on the page  
and it's different sizes?

A: Flexbox

Q: I want my row to always be as large as the  
largest content in it?



A: Grid

Q: I want two of my divs to overlap?

A: Grid

Q: I want certain elements to span twice as wide as others?

A: Grid

Q: I want alignment horizontally but I don't care if  
they line up vertically?

A: Flexbox

Q: I want super easy auto-margins (think login button)?



A: Flexbox

Q: I need a card grid with different heights?

A: Flexbox

**Grid > Flex**

**Flex > Grid**

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# Applying CSS to specific Media

Ex: make it look different when you print it out

# Old: Link Tag

```
<link rel="stylesheet" media="print"  
      href="printer.css">
```



# New: CSS Query

```
@media print {  
    ???  
}
```

# **When and how would I use?**

To focus on printed content

```
@media print {  
    #header, #footer, #nav {  
        display: none;  
    }  
}
```

```
@media print {  
    #main {  
        font-family: serif;  
    }  
}
```

```
@media print {  
    #main {  
        font-size: 12pt;  
    }  
}
```

# @page

```
@page {size: 8in 10in;}  
@page {margin: .75in;}
```

# @page

```
@page normal {size: portrait;  
              margin: .5in;}  
  
@page rotate {size: landscape;  
              margin: .2in;}  
  
#main {page: normal;}  
#gallery {page: rotate;}
```

# Media Queries

Modify styles based on device type, screen properties or resolution



# Sizing

**@media (min-width: 10em) and  
(orientation: landscape) { }**

```
@media (width <= 10em) {}
```

```
@media (10em <= width <= 20em ) { }
```

# Features

**@media (not(hover))**

**@media (not(color))**

# Devices

```
@media
```

```
  (max-device-width: 42mm)
```

```
  and (min-device-width: 38mm) { }
```



**Q: Do I use with  
Grid/Flex?**

A: Yes

# Flex by Orientation

```
@media (orientation: portrait) {  
  .container {  
    flex-direction: column;  
  }  
}
```

**Style by Feature**

# Feature Queries

```
@supports (display: grid ) {  
    #main {display: grid;}  
}
```

# Feature Inside Media

```
@supports (display: grid ) {  
    @media (orientation: portrait) {}  
    @media (orientation: landscape) {}  
}
```

# Fonts

**5 Families**

Serif

Times New Roman



# Sans Serif

Helvetica

Monospace

Courier

Monospace hello

Sans Serif hello

Cursive

**Fantasy**

# Safest Web Fonts?

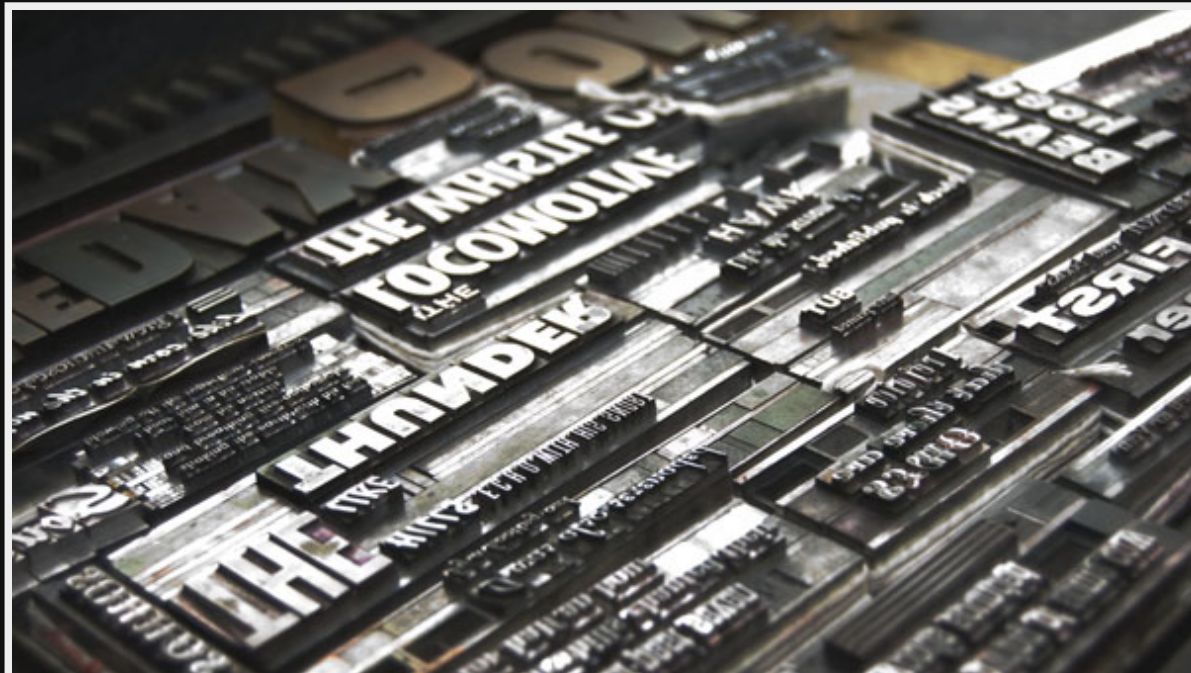
- Arial
- Helvetica
- Times New Roman
- Courier

# Sizing

# The em box

font-size sets the size of the designer chosen em-box for a font

Uniform height pieces, set to width of uppercase M  
(square/box)





# Smart defaults

font-size: small / medium / large

medium 16px, default

small \* 1.5 = medium

large \* .66 = medium

# Q: What do I inherit?

A: The computed value

Example with keywords

Example with ems

# Browser defaults

Example with ems

# Ems and Rems

Example scaling

**The Final.**