## Lecture: Responsive design and Sass design website / pages so that it renderes well in any type of device media query assign CSS to particular type to html element on a particular type 86 media ) computer For comp screed <//> create media query C SS print & @ media classes called > screen -only { recuen-only, display: none; make invisible. another media query

media (min-width: 500px) 5

Apply this if media has width = 500px

.... , . . . . . . . . . /

@ media (max - width: 499 px) }

Apply this if media has width

< 499 px

}

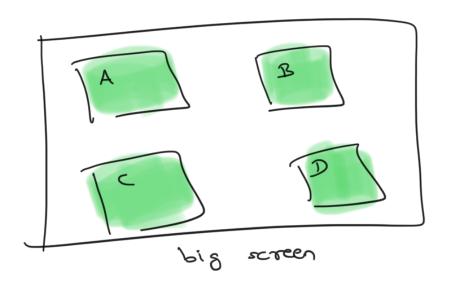
<meta name = "viewport"

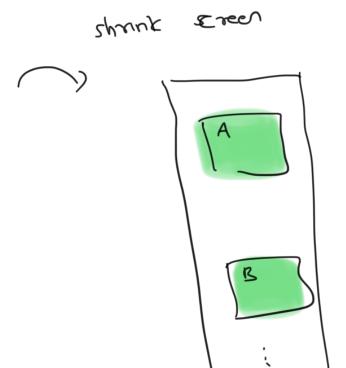
content = " winth = device - width ,

initial - scale = 1.0">

- viewpost = visible area of your page
- set width it viewport as width it
the device being wed

Flex box





< div class = "container>

A  $\langle \alpha \rangle$ <1 dw> </di> < dw> B CSS · container { display: flex; flex-wrap: wrap; · container > div background - color: springgreen; apply this b

grid layout (grid box)

<div class = "x">

<div class = "y"> 1 </div>

i

< dw class = "y"> n </div>

## <u>C 22</u>

· 2 {

display: 3rid;

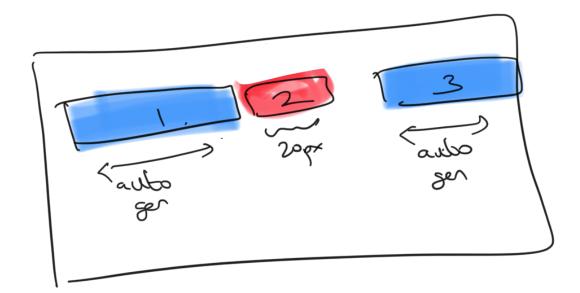
padding: 20 px

grid-column-gap: 20 px;

grid-row-gap: 20px;

grid-template-columns:

como sobre amos



if screen shrunk, [] 3 widths get

## CSS Libraries

Bootstrap

( flex, soid, and other things

already implemented is CSS style sheet)

< link rel = " style sheet",

hreef = " link to bootstrap style
sheet" >

Book story: nelosik -) 12 cols

Syntax

< dw class= "container">

<pr

 $\langle \Delta w \rangle$  class = " col - 3" >  $\langle \Delta w \rangle$ 

this takes up 3/12 role

Small

< du class = " \all - 1g - 3 \quad \cd - 5m - 6" >

\[
\sigma \quad \qq \quad \quad \quad \quad \quad \quad \quad

</di>

takes up 3/12 cals

takes up 6/12 cols

< /200>

## Alexts in bootstrap

< div class = " alert alest-primary"

role = "alert">

div class = "alest alest-success"

role = "alert">

< div class = "alext alext-danger"

role = "alert">

- \_ get boot strap. com
- -> Documentation
- -> components

Sass (language built on bop of css)

- programatically generate CSS

Style sheets

- . SCSS (extension for CSS

variables in sass begin with \$ \$ color: red; CSS code where you can we \$ color

> sass, css · SCSS

Sass input. SCSS output. CSS -) generates output. css from input. scss \* o css. map of stores the way output. css is severated from input. ecss.

Sass can "watch" a file! a directory of files. Any time any 56 them changes, Sass automatically recompiles the associated CSS files.

Sass -- watch input. scss: output. css

Github, other website deployment pages enave built in support for sass GILHUS
GILHUS
aubmatically
compiles
. SCSS -> .CSS · SCSS (free software) Install Sass Nesbing CSS using Sass · sess fle div { for and q font - size: 18 px; - descendant of giv apply for any ul al ( color: green ; - descendant of div, apply green. etc. same as

div p {wor: blue; } in usual css.

Specialize 6 more specific I message templak % message { font - family: sans- serifi padding: 20px font-size: 18 9x success @ extend % nessage; background - whor: green;