# CTD Intro Week 11

**CSS Layout** 



#### **CSS Units**

- Relative units are preferred for responsiveness
  - em: Relative to the font-size of the element
    - 2em means 2 times the size of the current font
  - rem: Relative to the font-size of the root element
  - **ch**: Relative to the width of the "0" (zero)
  - **vw**: Relative to 1% of the width of the viewport
  - **vh**: Relative to 1% of the height of the viewport
  - vmin: Relative to 1% of the viewport's smaller dimension
  - **vmax**: Relative to 1% of the viewport's larger dimension
  - %: Relative to the parent element
- Absolute units (don't work well with varying screen size)
  - cm: Centimeters
  - mm: Millimeters
  - **in**: Inches (1in = 96px = 2.54cm)
  - **px**: Pixels (1px = 1/96th of 1in)
  - **pt**: Points (1pt = 1/72 of 1in)
  - **pc**: Picas (1pc = 12pt)



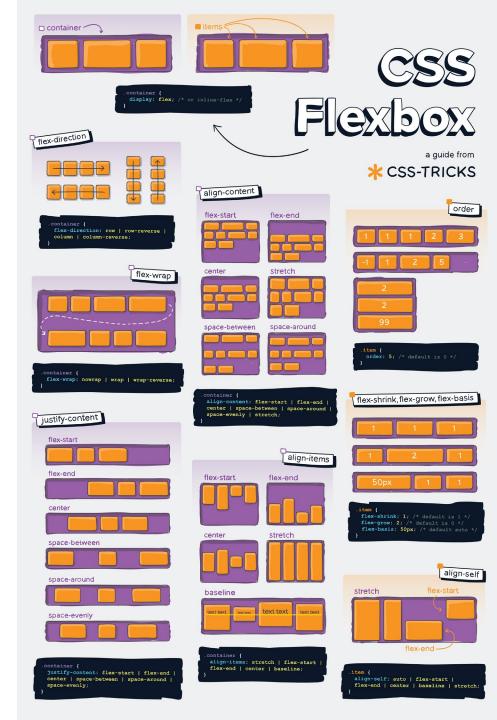
```
modifier_ob
  mirror object to mirror
mirror_mod.mirror_object
 peration == "MIRROR_X":
__mod.use_x = True
mirror_mod.use_y = False
lrror_mod.use_z = False
 _Operation == "MIRROR Y"
irror_mod.use_x = False
lrror_mod.use_y = True
 !rror_mod.use_z = False
  _operation == "MIRROR_Z"
  rror_mod.use_x = False
  rror_mod.use_y = False
  rror_mod.use_z = True
  election at the end -add
   ob.select= 1
   er ob.select=1
   ntext.scene.objects.action
  "Selected" + str(modified
   rror ob.select = 0
  bpy.context.selected_ob
  lata.objects[one.name].se
  int("please select exaction
     OPERATOR CLASSES ----
    ect.mirror mirror x
  ext.active_object is not
```

## Navigation Menu

- How to link within a page
  - Add an ID to each target
  - Reference the id in the href (e.g. #about)
- Make it sticky
  - Use css position and top specifications
- Make sure all of the target heading shows
  - Apply scroll-margin-top to each section
- Make width 100%
- Opaque background color
  - So scrolled content doesn't show through
  - Match body background

### Flexbox and CSS Grid

- Flexbox vs CSS grid
  - Flexbox is 1D
  - CSS Grid is 2D
- Grid for larger layouts
  - Full pages, landing pages...
- Flexbox for smaller scale layouts
  - e.g. nav menus
  - Specified via display: flex (not flexbox)
- They can be combined





### Media Queries

- Mobile, Browser
- Example:
  - @media only screen and (min-width: <some-width>px) {<any styling override> }
- Testing/debugging media aware layouts
  - Right-click->Inspect
- For next week's lesson

### Questions

Previous lessons?

