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
 - **vi/dvi**: Relative to 1% of the inline dimension of the viewport. Adding 'd' makes it dynamic.
 - **vb/dvb**: Relative to 1% of the block dimension of the viewport. Adding 'd' makes it dynamic.
- 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)



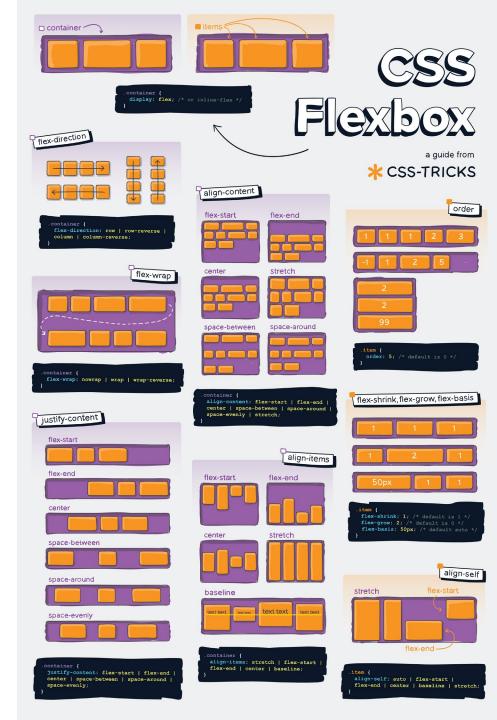
```
modifier_ob
  mirror object to mirror
mirror_mod.mirror_object
 peration == "MIRROR_X":
irror_mod.use_x = True
mirror_mod.use_y = False
Lrror_mod.use_z = False
 _operation == "MIRROR_Y"
alrror_mod.use_x = False
lrror_mod.use_y = True
 lrror_mod.use_z = False
  operation == "MIRROR_Z";
  rror_mod.use_x = 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_obj
  lata.objects[one.name].sel
  int("please select exactle
    - 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: fixed and top specifications
 - Alternative, position: sticky
- Fixed vs sticky
 - Fixed removes the element from the document flow, fixes it in the viewport
 - Need to deal with it being on top of other content
 - Sticky is relative until a threshold is reached and then becomes fixed in the containing element
 - More flexible, any element rather than the whole viewport
- Make sure all of the target headings show correctly
 - Apply scroll-margin-top to each section if necessary
- Make width 100% (optional design suggestion)
- Opaque background color (optional design suggestion)
 - · So scrolled content doesn't show through
 - Match body background
- Pad the bottom of sections to avoid hitting the end of the document with nav links

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?

