Advanced Ideas

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- · pseudo classes = elements that are dynamically populated or dependent on tree structure
- · types of psuedo·classes: link

user action

forms (interface)

structural/positional

' link: :link

·visited

user actions: : nover

active

-holding down mouse button over an element

focus

- tabbing checkpoints

forms (interface): : enabled

: checked

: disabled

te.g. grey out sections that can't be filled until a previous box is completed

Structural/positional:

first-child

: first-of-type

: last-child

: last -of-type

: nth-child()

: only-of-type

: only-child

empty

· pseudo-elements = elements that aren't part of the DOM

used to style specific/unique parts of the page

types of pseudo elements: textual

positional/generated

fragments

textual: :first-letter

: first-line

- style first __ w/ different font, color, size, etc

: positional/generated: :before

: after

T generate things to show up before or after elements

· fragments: :: selection

– style fragments of different selections

Transitions when elements transition from one state to another, you can alter their appearance properties: transition-property - what is it you want to change? (size, color, position, etc) transition-duration - how long should each transition last? transition-timing - should it be a smooth transition (linear)? or differing speeds? transition-delay -how long should the wait be before the transition begins? setting up/steps: 1) define your element 2) choose the properties for transition 3) define the new values - must use pseudo class using shorthands: ightarrow (eg. transition: background .2s linear, border-radius Is ease-in Is;) use transitions sparingly! don't overwhelm page luser accessibility is an issue -> don't require certain state make all content available Transforms another way to change the appearance of elements often combined w/ state changes typically requires browser prefixes types: 2-dimensional 3-dimensional 2D transform options: translate rotate scale skew matrix translate: +x move right -x move left

ty move up -y move down

- format: transform: translate(x,y);

→ (eg. transform: translate(100,75);

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rotate: spin the element a certain # of degrees
    - format: transform: votate(deg);
     ---- (eg. transform: rotate(30 deg);)
  scale: change the width 4 height of element
    -format: transform: scale (width, height);
      \longrightarrow (eg. transform: scale (2,3);)
  skew rotate element a certain # of degrees along the x q y axes
    -format: transform: skew (x-angle, y-angle);
      (eg. transform: skew (30 deg, 15 deg);)
 matrix = combines all of the 2D transform methods into one
            complicated / don't use
  3D rotate: rotate along the x/y/z dimension along a given degree
    - format: transform: rotateX(deg);
                transform: rotate Y (deg);
                transform: rotateZ (deg);
                transform: rotate 3d(x,y,z);
   other 3D transforms: 3D scale
                          30 translate
Positionina
   position values: Static
                                      modifiable by: top property
                    relative
                                                     right property
                   absolute
                                                      bottom property
                    fixed
                                                      left property
  Static :
            default value for elements
            place in next available position
             not affected by t,b,1,r properties
    -format: position: Static;
  relative: positioned relative to itself
             static position but can add t,b,l,r offset(s)
             new position doesn't affect other elements
             often used as container blocks for absolutely positioned element
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- format: position: relative;
absolute: element is removed from document flow & positioned relative to its nearest ancestor (aka the root)
            other elements behave as if element DNE
            can end up on top of another element
  -format: position: absolute;
fixed: positioned relative to the browser window
         won't move, even if window is scrolled → can't escape/follows you
  - format: position: fixed;
    --> (eg. popup ads): doesn't go away

ightarrow (eg. navigation bar): always visible on top
z-index: (in the case of multiple elements placed in same position / stacked on top of each other)
           # that dictates stacking order
           + value higher in stack (top)
           - value lower in stack (bottom)
positioning elements is the key to achieving desired layout(s)
plan properly before coding to make this ^ easier
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