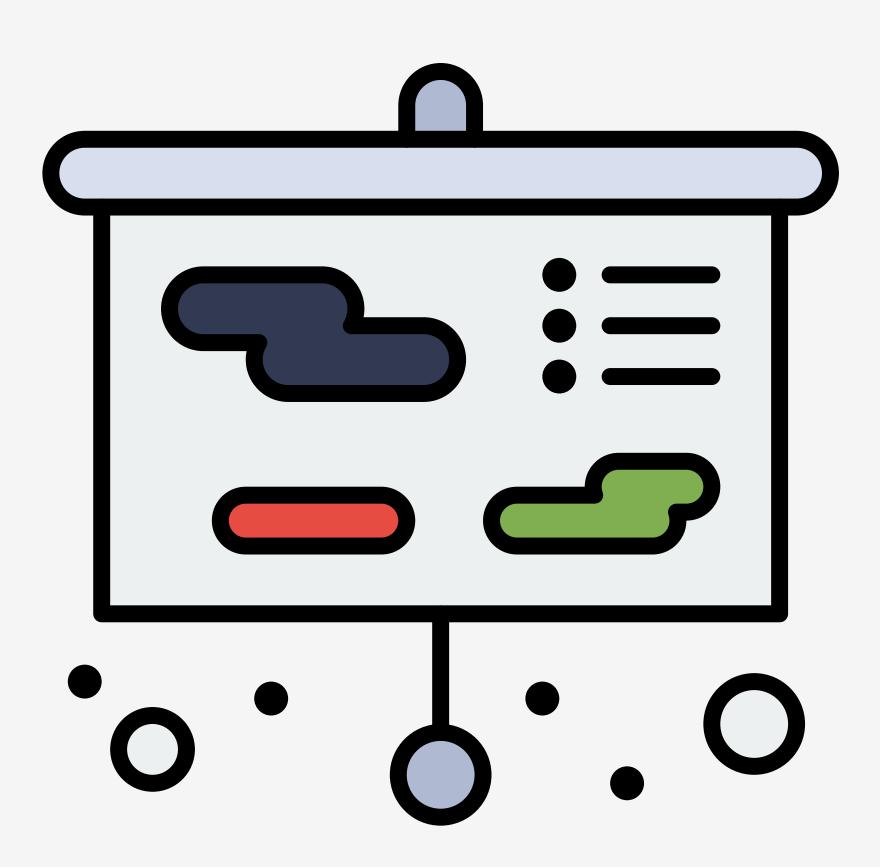
RESPONSIVE WEB DESIGNII

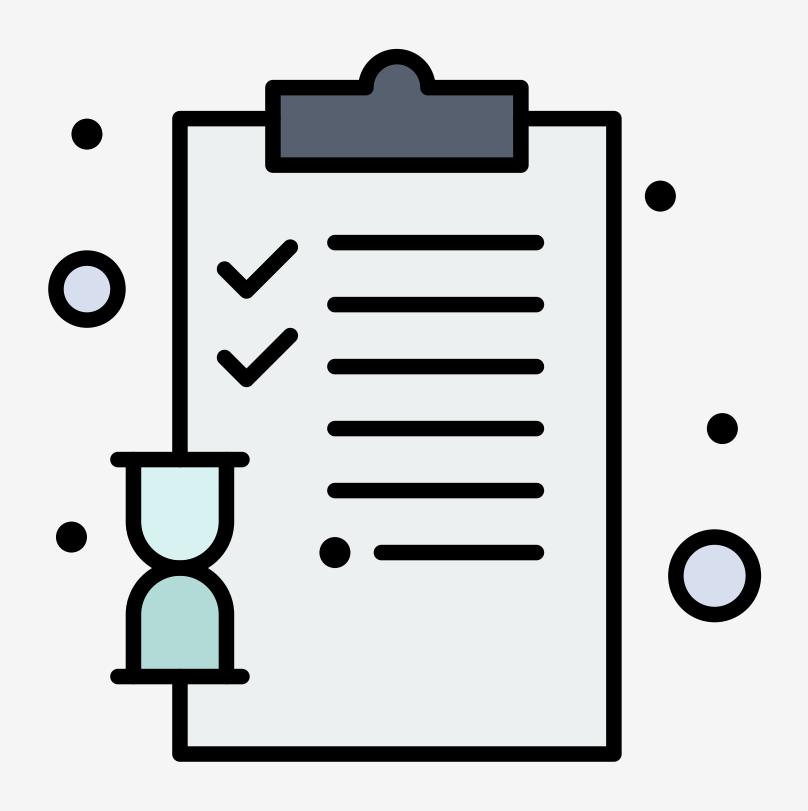
Lecture 10

TODAY'S TOPICS



- CSS Transitions
- CSS Transforms
- Participation: Pseudo Judo

ANNOUNCEMENTS

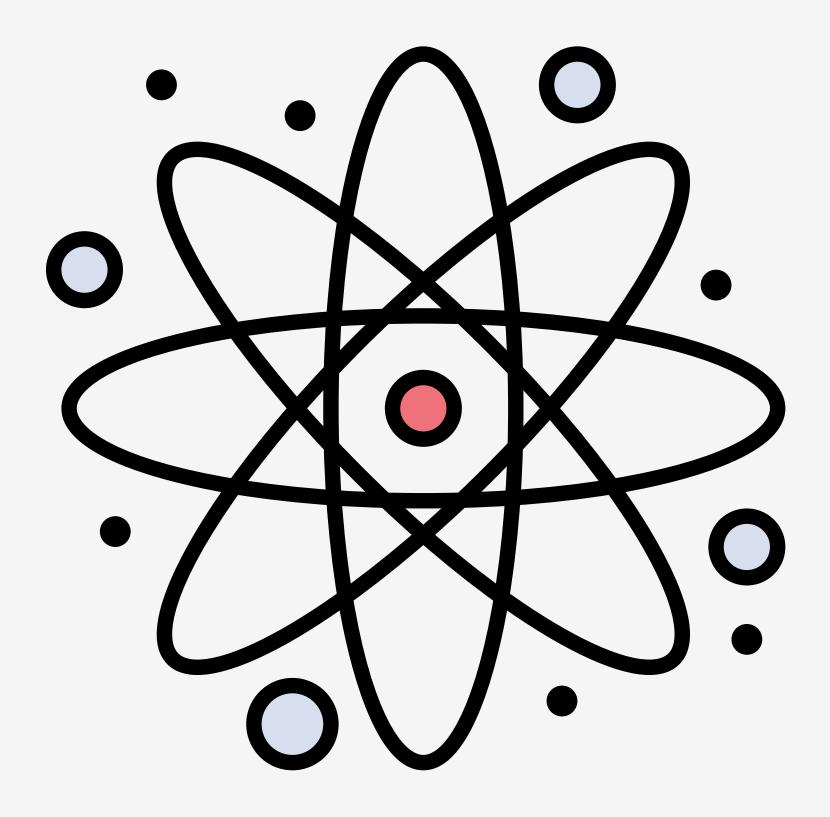


Sign-in Sheet

QUESTIONS

CSS TRANSITIONS

CSS TRANSITIONS

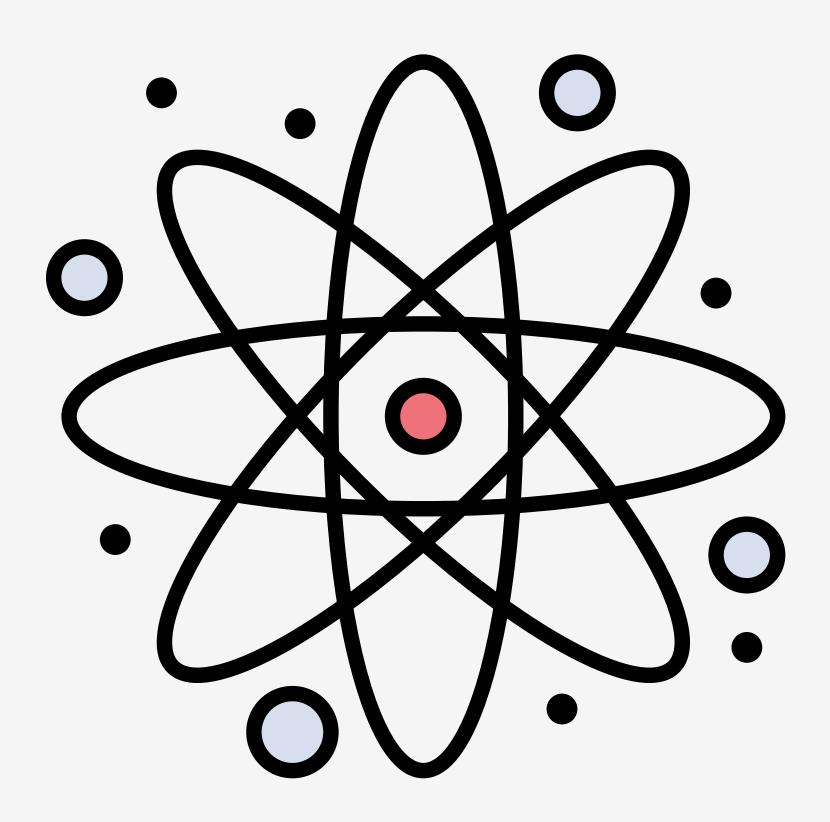


- When the appearance of an element changes (e.g.:hover), by default, the change happens instantly
- The transition properties can control how that change occurs
- There are four properties:
 - transition-property
 - transition-duration
 - transition-delay
 - transition-timing-function

CSS TRANSITIONS

```
box {
  transition-property: background;
  transition-duration: 0.3s;
  transition-timing-function: ease-out;
  transition-delay: 0.5s;
/* shorthand */
box {
  transition: background 0.3s ease-out 0.5s;
```

CSS TRANSITIONS



- The same transition can be applied to all properties by using the all keyword
- Multiple different transitions can be applied by separating each transition statement with a comma

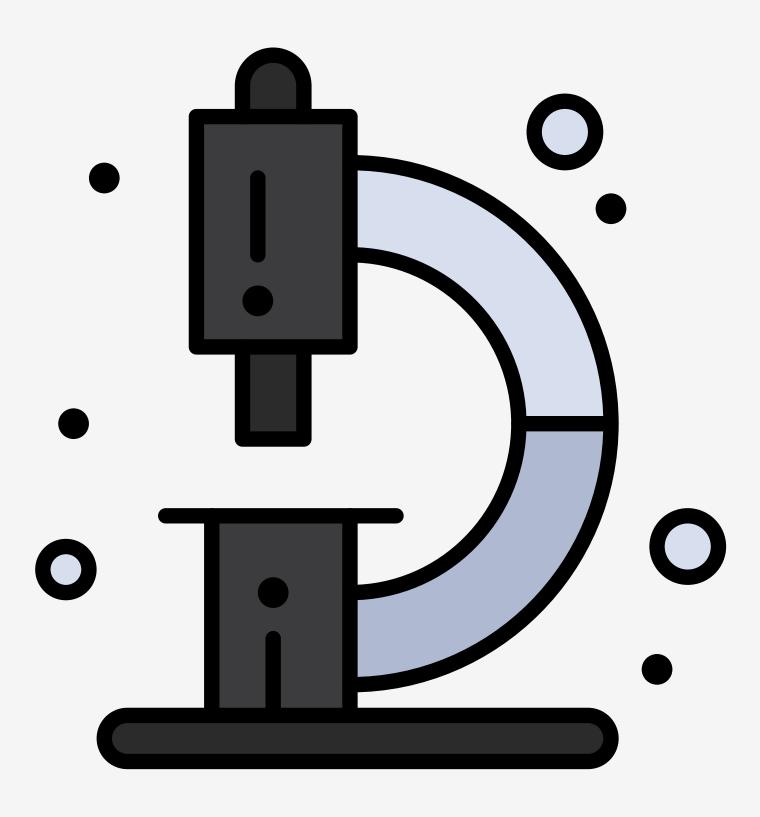
CSS TRANSITIONS

```
/* transition is applied to all properties */
box {
  transition: all 0.3s ease-out 0.5s;
/* transition both width and height */
box {
  transition: width 0.3s 0.5s, height 0.5s 1s;
```

HANDS-ON

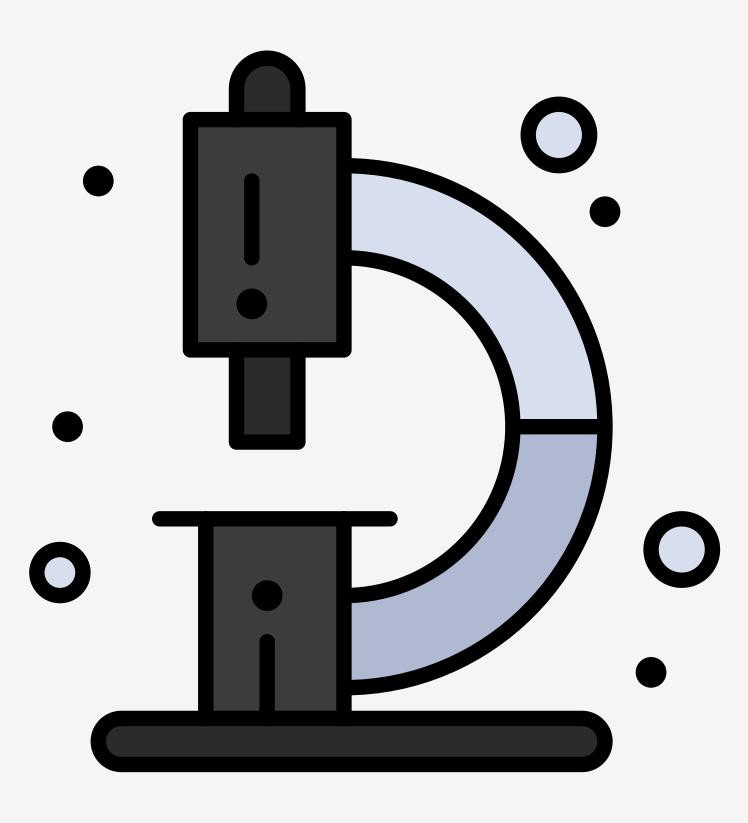
CSS TRANSFORM

CSS TRANSFORM



- The transform property is used to change the shape and / or position
- The transform property can perform 2D and 3D transformations
- Transformation are accomplished through transform functions
 - translate()
 - rotate()
 - scale()
 - skew()

TRANSFORM-ORIGIN

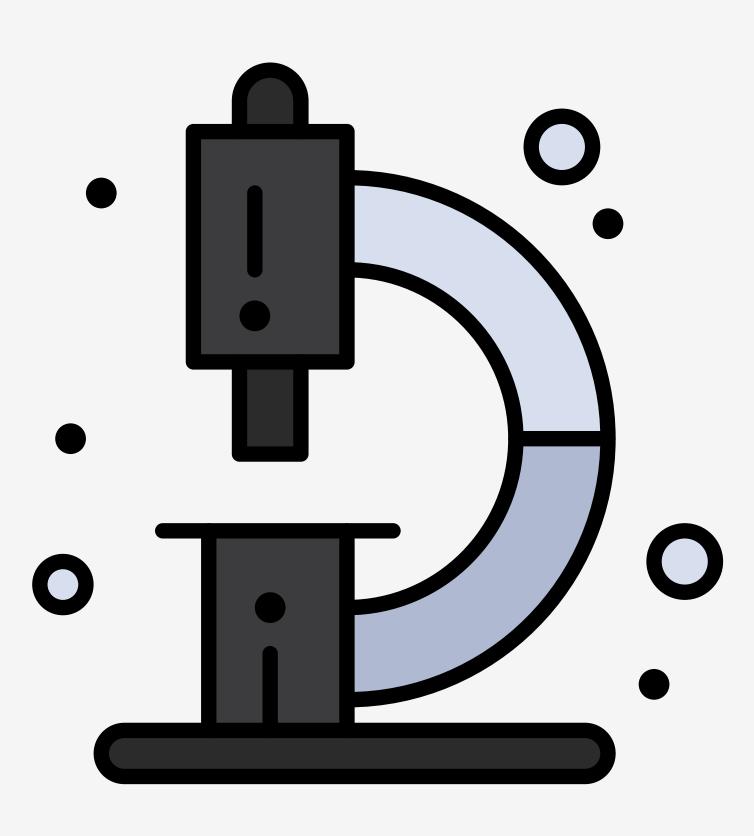


- The transform-origin property specifies the transformation point of an element
- The transform-origin property takes one or two values which to move the transformation point
- The transformation point can be outside an element
- The default for transform-origin is the center of the element

TRANSFORM ORIGIN

```
/* default origin */
box {
  transform-origin: center;
/* using keywords */
box {
  transform-origin: top left;
/* using values */
box {
  transform-origin: 100px -50px;
```

TRANSLATE

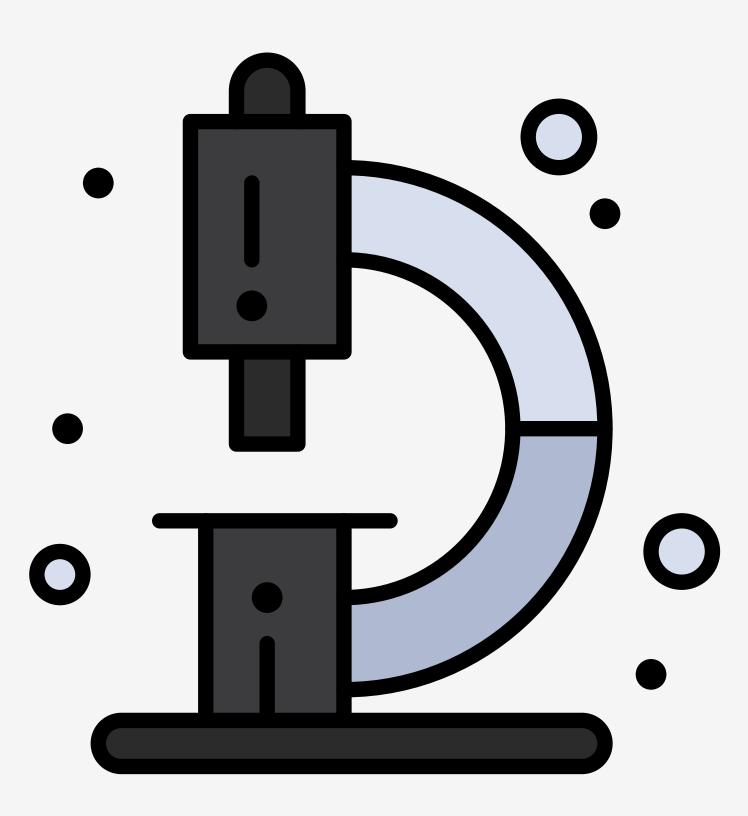


- The translate() function relocates an element along x and y axis.
- The translate() function takes one or two arguments, the distance the element will move
- The arguments can be positive or negative, and can be a length or a percentage

CSS TRANSITIONS

```
/* the box moves down 100px and right 50px */
box {
  transform: translate(50px, 100px)
/* the box moves up 50px and left 100px */
box {
  transform: translate(-100px, -50px)
```

ROTATE



- The rotate() function defines how an element should rotate around transformation point
- The rotate() function takes an argument that specifies the angle at which the element will rotate
- The argument can be in degrees (deg), turns (turn), gradians (grad), or radians (rad)
- A positive value rotate clockwise and a negative value rotate counter-clockwise

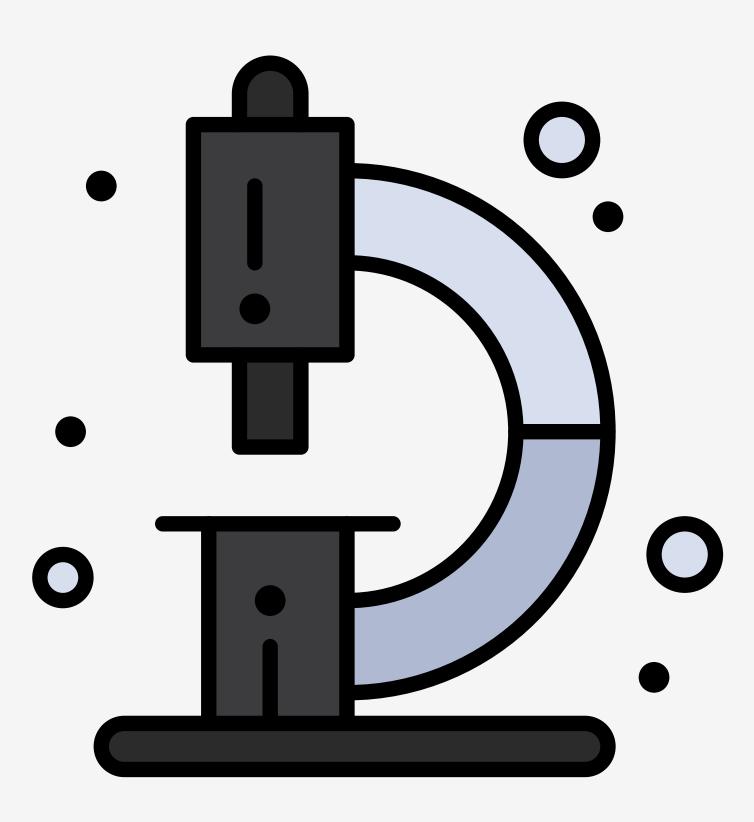
ROTATE

```
/* one full circle in degrees */
box {
  transform: rotate(360deg);
/* one full circle in turns */
box {
  transform: rotate(1turn);
/* one full circle in gradians */
box {
  transform: rotate(400grad);
/* one full circle in radians */
box {
  transform: rotate(6.2832rad);
```

ROTATE

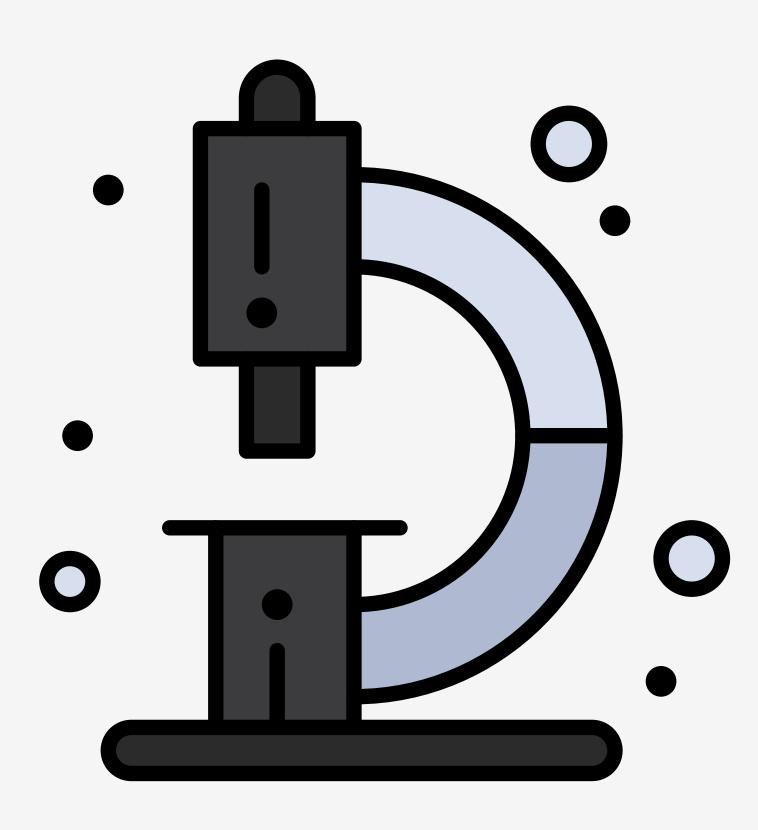
```
/* rotates 1/4 circle to the right */
box {
  transform: rotate(90deg);
/* rotates 1/4 circle to the left */
box {
  transform: rotate(-0.25turn);
```

SCALE



- The scale() function resizes an element.
- The scale() function take one or two arguments.
- A value 1 represent the elements normal size
- A value greater than 1 the element will scale up, less than 1 the element will scale down

SCALE

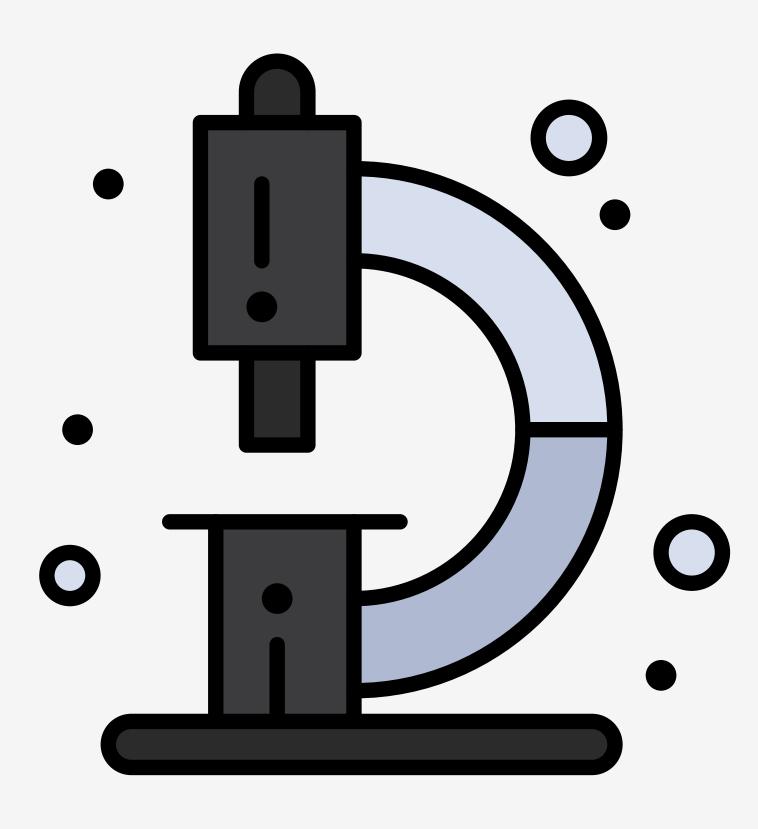


- Any content inside an element will also be scaled
- When element is scaled, it will have no affect on other elements

SCALE

```
/* scale up in both directions */
box {
  transform: scale(2);
/* scale down in the X direction */
/* scale up in the Y direction */
box {
  transform: scale(0.5, 2);
```

SKEW



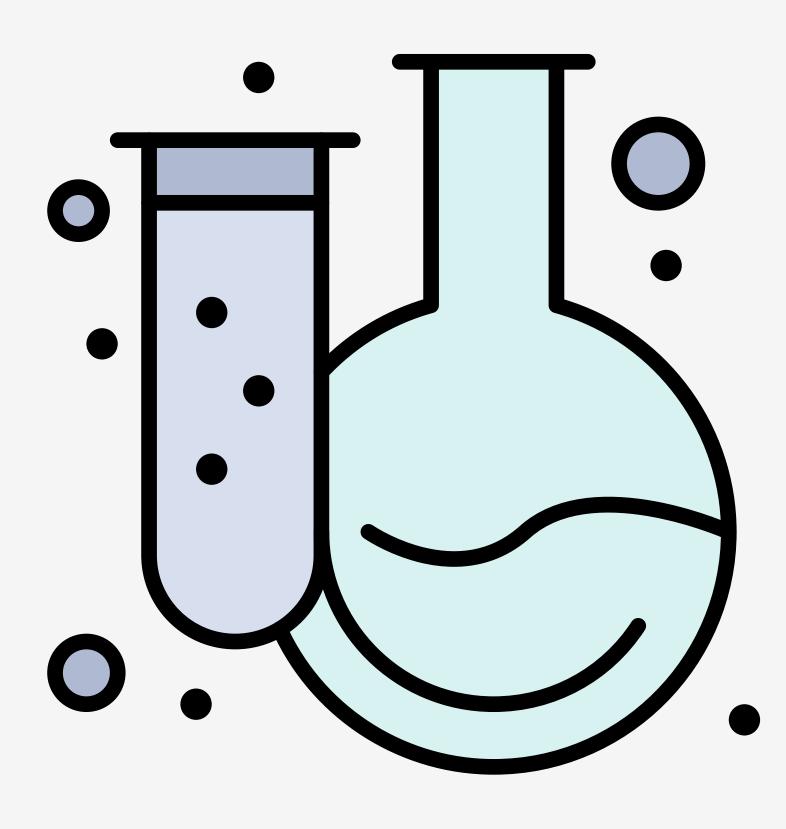
- The skew() function will skew an element by specified angle
- The skew() function takes one or two arguments
- The arguments can be in degrees (deg), turns (turn), gradians (grad), or radians (rad)
- The arguments can be positive or negative values
- Any content inside an element will also be skewed

```
/* leans to the left */
box {
  transform: skew(15deg);
/* leans to the right */
box {
  transform: skew(-0.06turn, 18deg);
```

SKEW

HANDS-ON

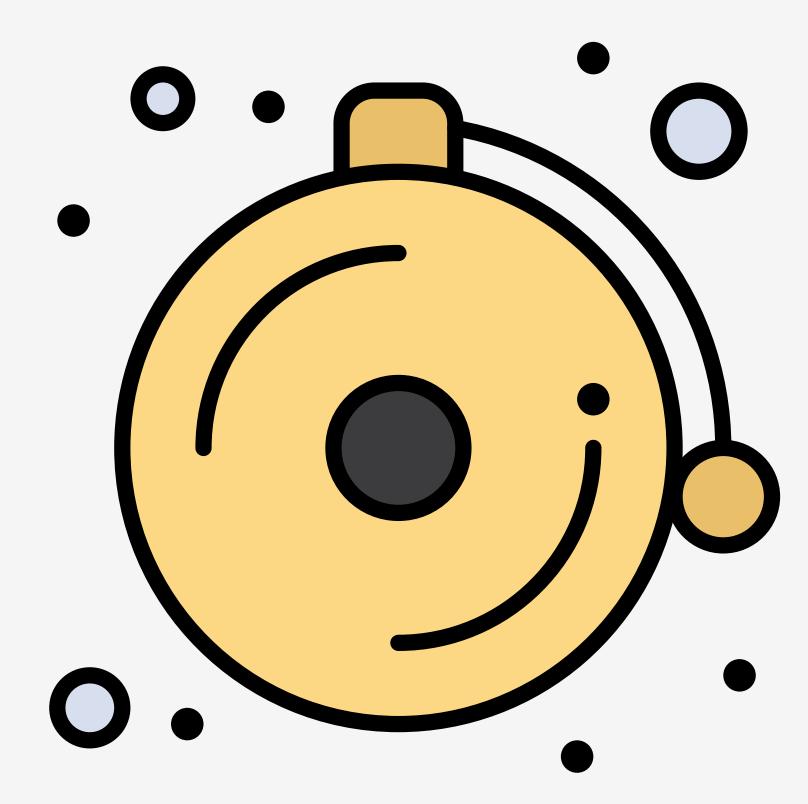
PSEUDO JUDO



• FORK THE PEN!

- Use the transition and transform properties to help the ninja do his moves
- Submit the URL to your pen
- DUE: Tue. Feb. 11 @ 11:59 PM

NEXT TIME...



- CSS Animation
- Participation: Doomsday Button