INTERACTIONS

WEEKLY OVERVIEW

WEEK 7	Animations / Interactions Lab
WEEK 8	Responsive Design / Final Project Lab
WEEK 9	Interactions Lab / Students' Choice

LEARNING OBJECTIVES

- Build familiarity with how transitions and transformations can be triggered using JavaScript
- Practice thinking and working through some common JavaScript interactions.

AGENDA

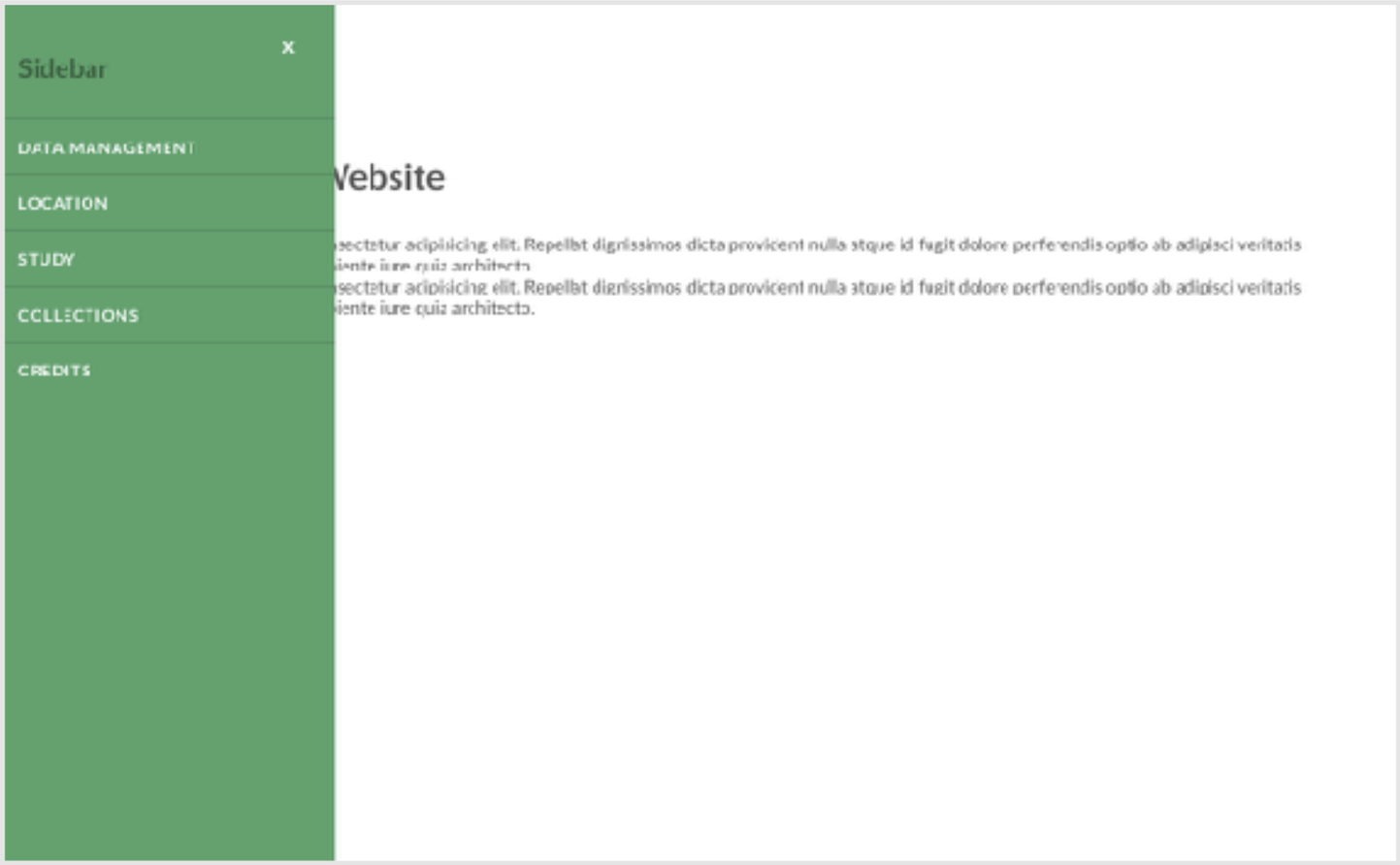
- Review
- Transformations
- Triggering Transitions and transformations
- Interactions Pseudo Code
- Sidebar Lab
- Scrollmations Lab
- Modal Window Lab

REVIEW

CSS POSITIONING — REVIEW

1. You are creating a sticky nav. You notice as you scroll that the nav is underneath other content on the page. Which property could you use to bring it towards the front?
2. You want to have the color of a link gradually change color when you hover over it, instead of changing color drastically. Which property could you use to make sure that that change is animated?
3. We want to position an element somewhere inside of it's parent. Which element would we set to have a position of relative and which element would we set to have a position of absolute? (parent or child for each)
4. Take a look at the following 4 slides. Which type of CSS positioning would you use for the sidebar menu, the modal window, the sticky nav, and the labels by the bug? (static, relative, absolute, fixed).

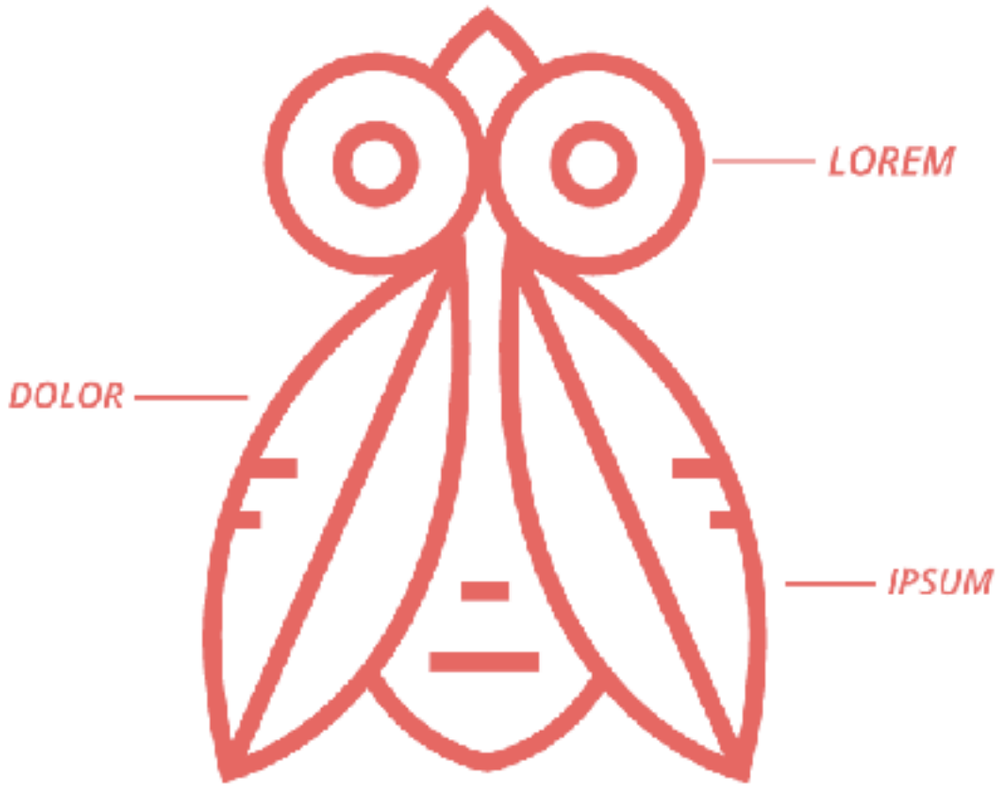
CSS POSITIONING — SIDEBAR



CSS POSITIONING — MODAL WINDOW

CSS POSITIONING — STICKY NAV

CSS POSITIONING — LABELS FOR IMAGE



TRANSITIONS — REVIEW

TRANSITIONS

- Provide a way to control animation speed when changing properties
- Instead of having property changes take effect immediately, you can have them take place over a period of time.

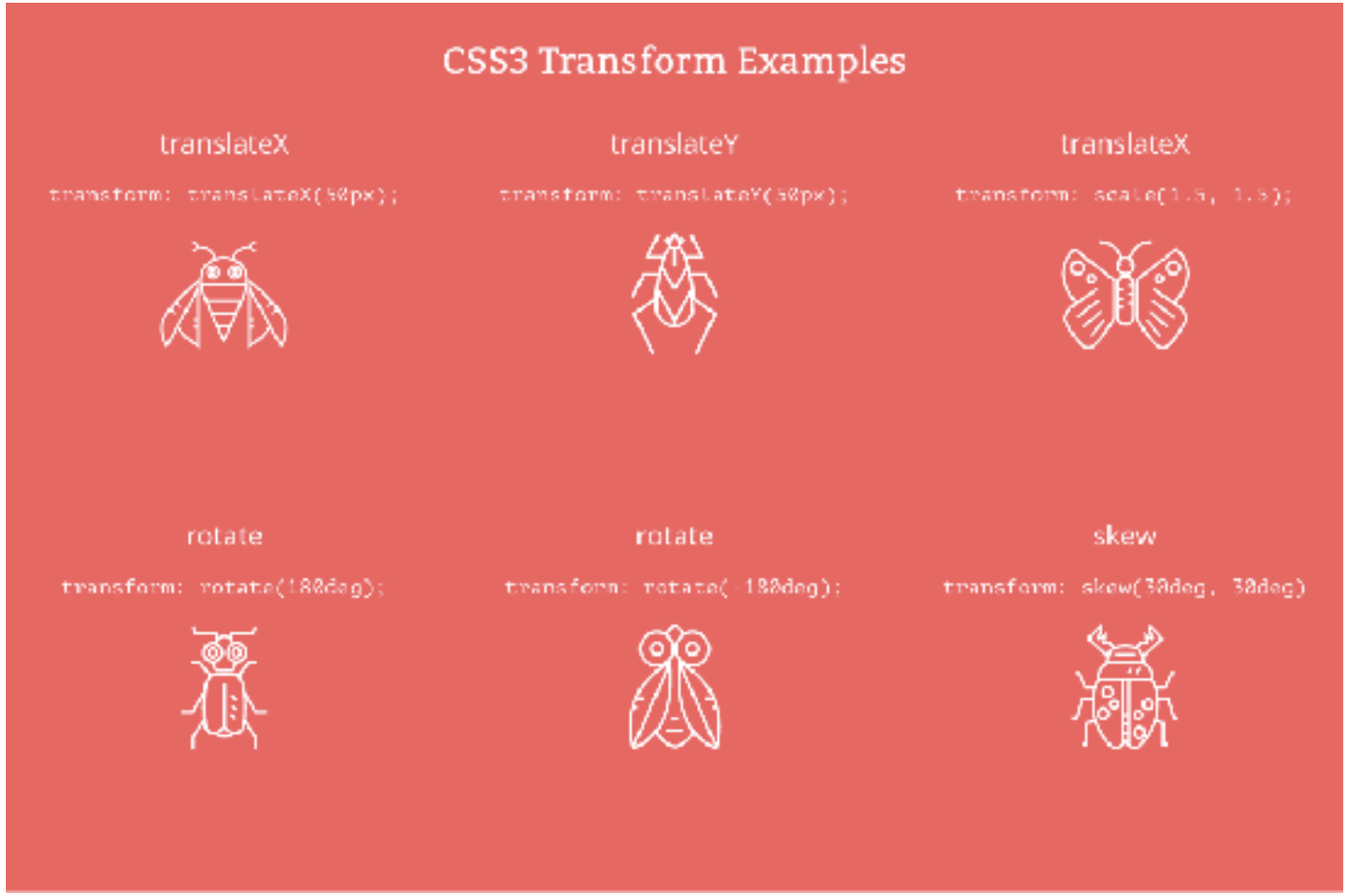
```
yourSelectorHere {
 transition: [transition-property] [transition-duration] [transition-timing-function] [transition-delay];
}
```

EXAMPLE:

```
button {
 transition: all 3s ease-in-out;
}
```

TRANSFORMS — REVIEW

LET'S TAKE A CLOSER LOOK — TRANSFORM



Syntax: [CSS Tricks]

TRIGGERING TRANSITIONS

TRIGGERING TRANSITIONS

There are two ways to trigger CSS transitions:

1. Using the :hover CSS pseudo-class
2. Adding a class with jQuery

ACTIVITY — TRIGGERING TRANSITIONS

KEY OBJECTIVE

- Practice using CSS transitions

TYPE OF EXERCISE

- Individual/Partner Lab

TIMING

10 min

1. Follow steps 1-2 in the main.css file in starter code > triggering_transitions.
2. Follow step 3 in the main.js file in starter code > triggering_transitions.
3. BONUS: Follow step 4 in the main.css file.

PSEUDO CODE — INTERACTIONS

WRITING PSEUDO CODE FOR INTERACTIONS

Steps to write pseudo code:

1. What item will the user be interacting with? (button, menu)
2. What action are we waiting for the user to take? (`click, scroll, submit, keydown, etc.`)
3. What element should change as a result of the interaction? (menu, modal)
4. Are there simple jQuery methods we can use to make any updates to content? (`fadeIn, fadeOut, slideUp, slideDown, etc.`)
5. If not, is there css we can add to our stylesheet and then add or remove a class?
6. Do we need any logic (if / else statements)?

ACTIVITY

TYPE OF EXERCISE

- Partner Lab

KEY OBJECTIVE

- Practice thinking through some common JS interactions

TIMING

5 min	1. Write pseudo code for the sidebar menu
5 min	2. Write pseudo code for the sticky nav
5 min	3. Write pseudo code for the modal window

SIDEBAR LAB

ACTIVITY

EXERCISE

LOCATION

- starter code > sidebar_menu

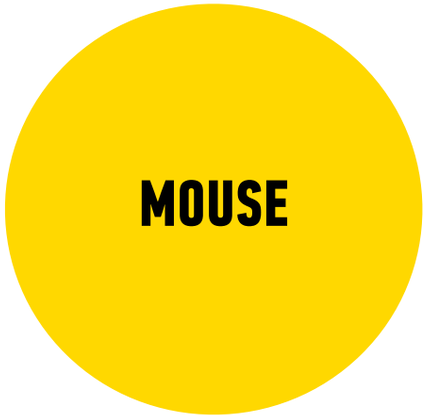
KEY OBJECTIVE

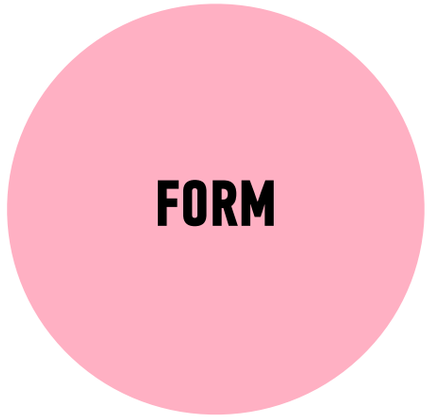
- Practice working through a common JS interaction

TIMING

3 min	1. Chat through how to tackle this interaction with a partner
25 min	2. Follow the instructions in main.css to make the menu interactive. One step will require writing JS
	3. BONUS: Also move the .content section over when the hamburger icon is clicked.
	4. BONUS: Hide the sidebar menu again when the X is clicked.

SCROLLMATIONS LAB





click

dblclick

mouseenter

mouseleave

keypress

keydown

keyup

submit

change

focus

blur

resize

scroll

```
$('li').on('eventGoesHere', function() {
  // your code here
});
```

ACTIVITY

EXERCISE

LOCATION

- starter code > sticky_nav

KEY OBJECTIVE

- Practice working through a common JS interaction

TIMING

6 min	1. Review these links: find out how far down the page the nav is and find out how far the user has scrolled.
8 min	2. Write pseudo code in main.js
20 min	3. Follow the instructions in main.css to make the sticky nav functional.
	4. BONUS: Fade in the annotations in the Flybug section.
	5. BONUS: use `setTimeout` (Google it) to stagger the animations.

MODAL WINDOW LAB

ACTIVITY

EXERCISE

LOCATION

- starter code > modal_window

KEY OBJECTIVE

- Practice working through a common JS interaction

TIMING

30 min

1. Follow the instructions in your main.css file
2. Write your pseudo code for the close and open buttons
3. Write your JS

HOMEWORK

PROJECT MILESTONE #2 — HTML / CSS

- Don't feel like you have to get everything perfect right off the bat! Just start writing. Here is what this weekend should look like:
    1. ~2 hours: Content/HTML — Structure, structure, structure! Start writing your content and html. Don't be intimidated! For this portion of the project, feel free to use "placeholder" text and images. Don't spend too much time on coming up with your final content, just get your HTML in place.
        - Placeholder text: http://www.lipsum.com/, http://baconipsum.com/
        - Placeholder images: https://placekitten.com/, https://placehold.it/
        - High resolution stock images: https://unsplash.com/ !!!!
    2. ~2 hours: CSS

PROJECT MILESTONE #2 — HTML / CSS

- Don't feel like you have to get everything perfect right off the bat! Just start writing. Here is what this weekend should look like:
  1. ~2 hours: Content/HTML
  2. ~2 hours: CSS — Make it pretty!
     - ~15 mins — Come up with a basic styleguide. Pick 2 or so fonts and 3 - 5 colors for the site.
       - Need help coming up with a color scheme? Adobe Color
     - ~30 mins — Start by getting everything roughly where it needs to be — set up your columns, etc. It might be helpful to use Pesticide or add a border to everything (`* {border: 1px solid red}`) for this step.
     - ~20 mins — Work on most general styles. Base font styles, colors, etc.
     - ~55 mins — Fill in the details. You'll want to Google, Google, Google!

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EXIT TICKETS!