

Intro to Online Experiments in jsPsych

Part 1: Website Basics, Intro to jsPsych, Consent Forms, Surveys

Lisa Sullivan

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Workshop Outline

Part 1

Website Basics

jsPsych Basics

Consent Forms

Surveys

Part 2

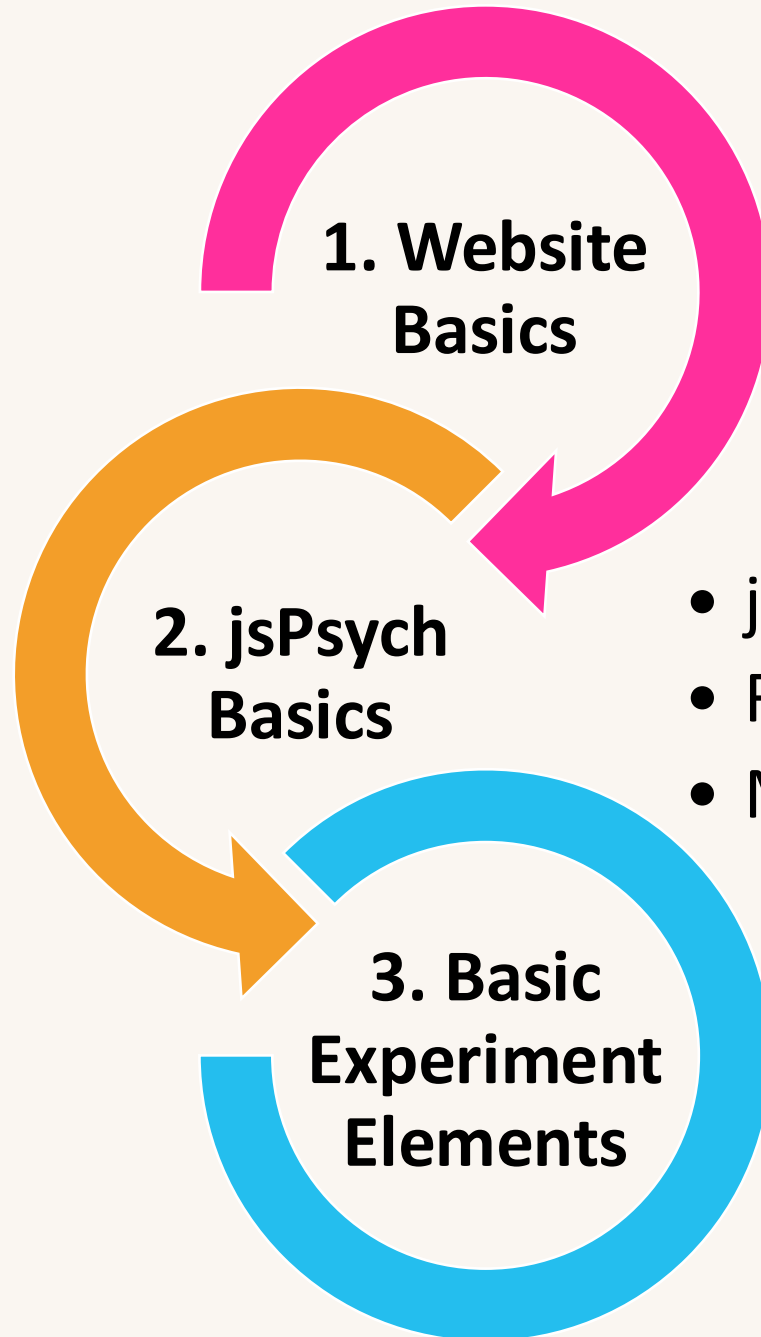
Integrating Sound

Advanced Blocks

Multiple Trials (Loops)

ABX Task

Today's Outline



1. Website Basics

- How Websites Work
- HTML
- CSS
- Scripting Languages

2. jsPsych Basics

- jsPsych website & documentation
- Files and Folders
- Main Task Page

3. Basic Experiment Elements

- Consent Forms
- Surveys

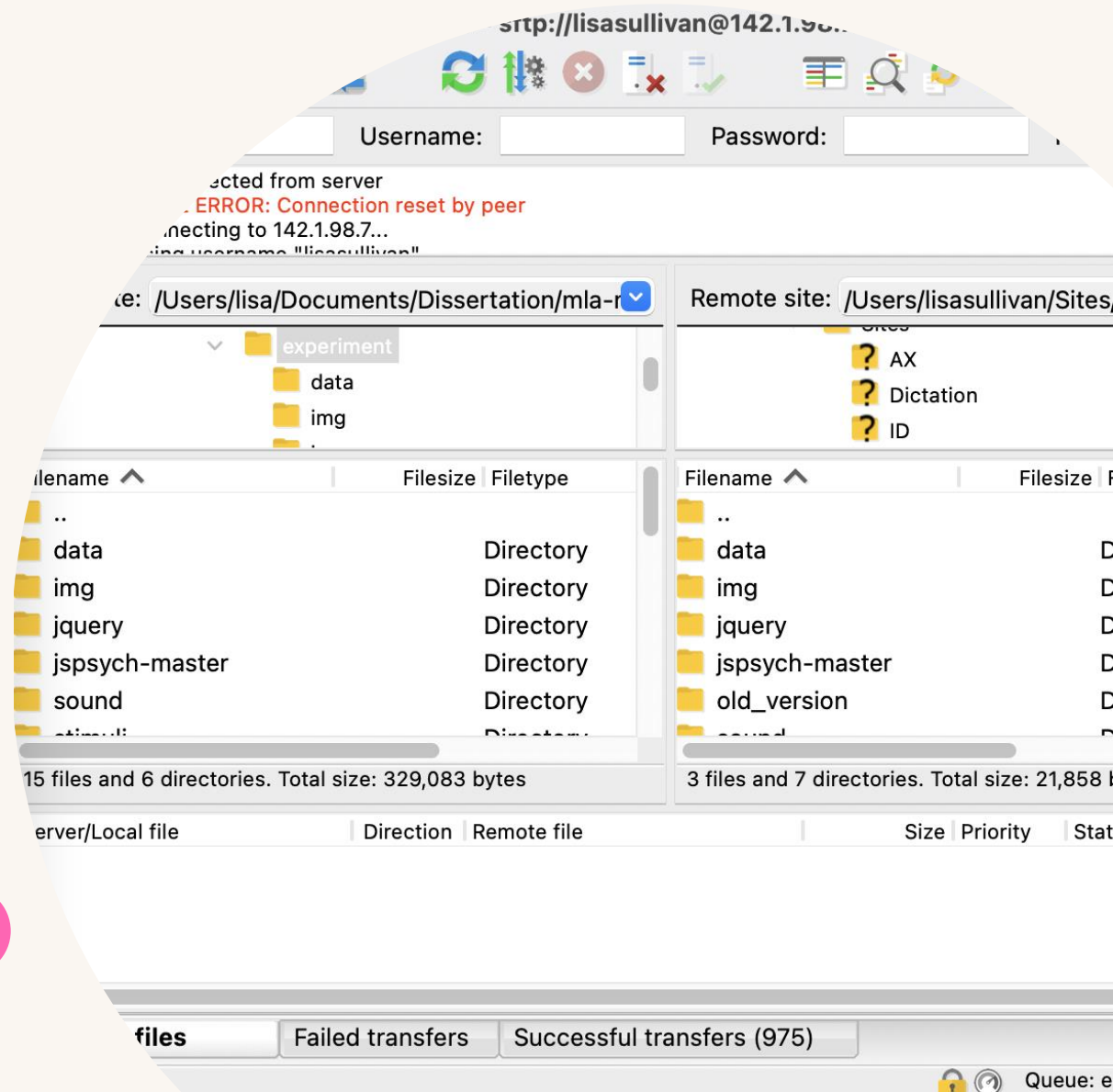
Website Basics

How Websites Work



FTP: File Transfer Protocol

- Upload files to your web server
- Manage files and permissions on your web server
- **What you need**
 - FTP Client (e.g. FileZilla: <https://filezilla-project.org/>)
 - Host
 - Username
 - Password



HTML: Hypertext Markup Language

- Markup language – specifies what each block of text is (e.g. heading, paragraph, list, etc.)
- It's all you need to create a static webpage – not what we're doing, so we need more
- **Resource:**
<https://www.w3schools.com/html/default.asp>

Heading 1

Heading 2

Heading 3

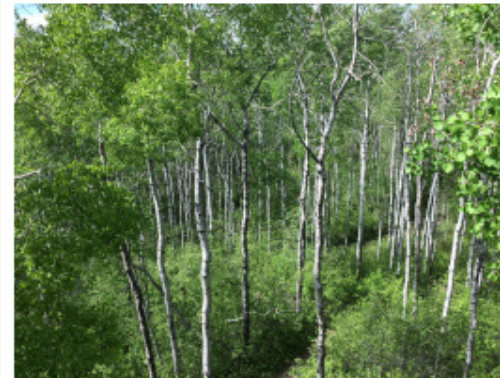
Heading 4

Heading 5

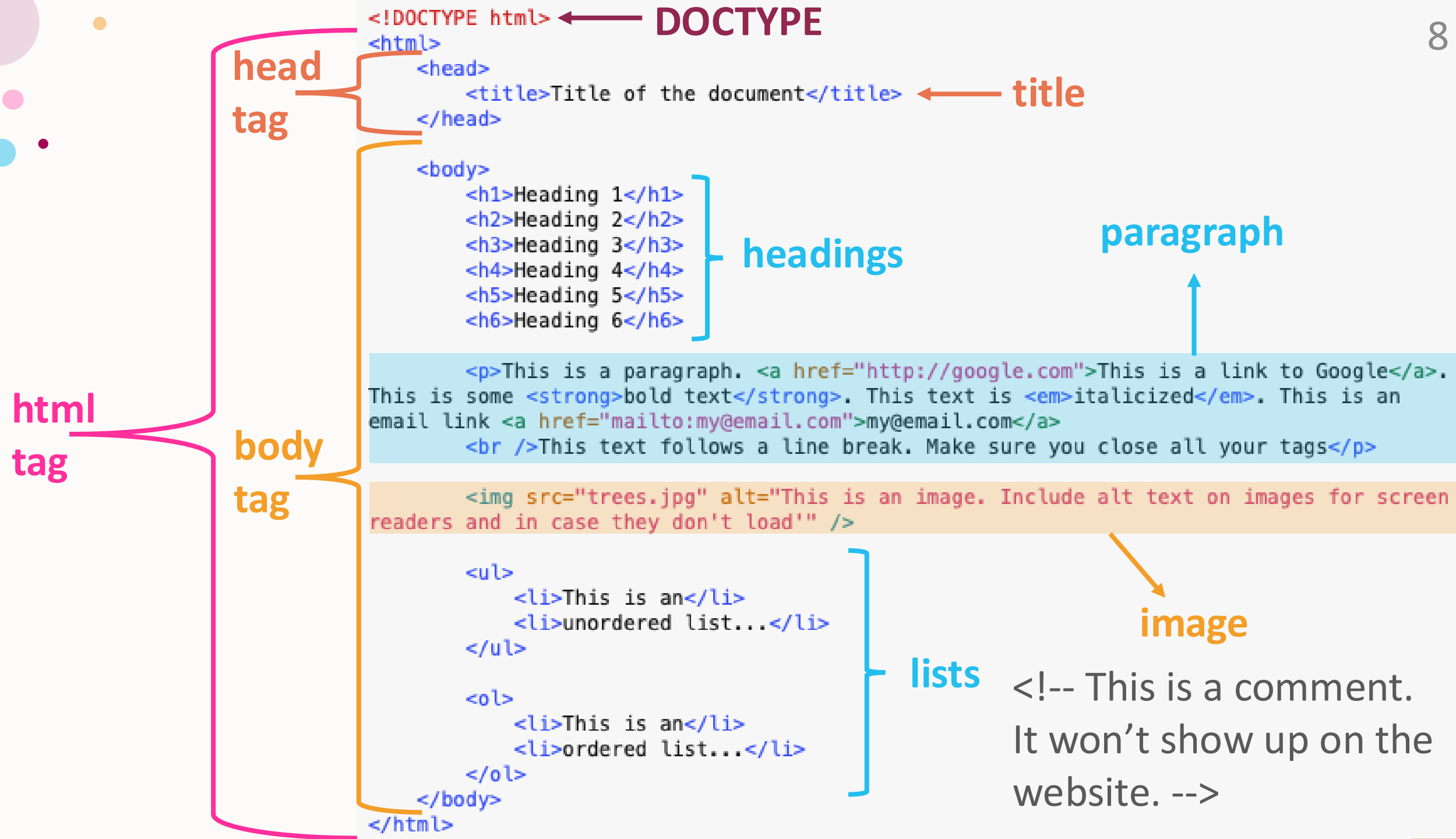
Heading 6

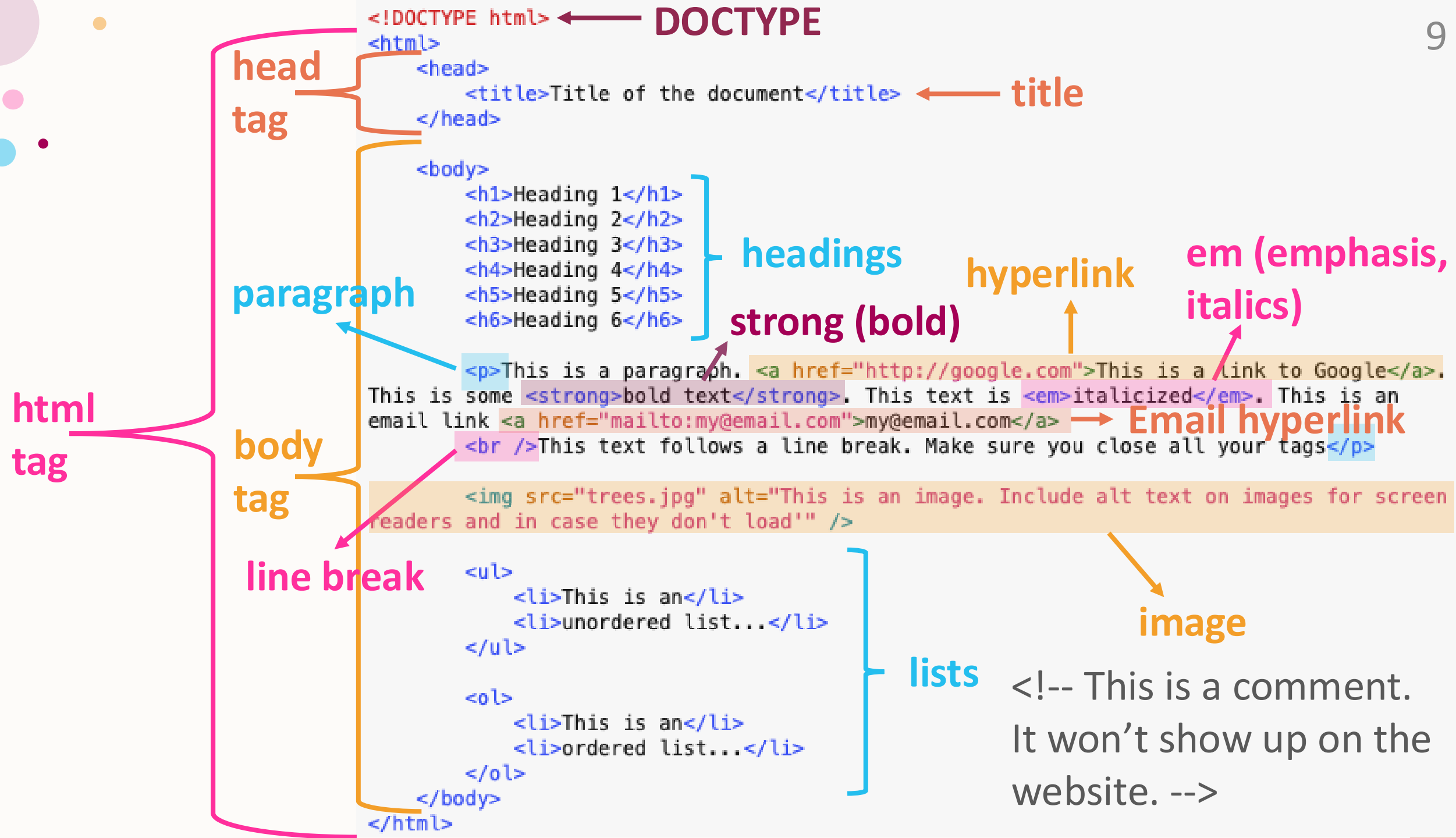
This is a paragraph. [This is a link to Google](#). This is some **bold text**. This text is *italicized*. This is an email link my@email.com

This text follows a line break. Make sure you close all your tags



- This is an
 - unordered list...
1. This is an
 2. ordered list...





CSS: Cascading Stylesheets

- Defines styles for your website – e.g. what a paragraph or a header looks like
- 3 places to add CSS:
 - **External:** In a separate .css file (loaded in <head>)
 - **Internal:** In a <style> tag in the <head>
 - **Inline:** In the style attribute in an HTML tag (<body style ="">...)
- Separation of style and content (for accessibility and best practice)
 - Define content in HTML
 - Define styles in CSS
- **Resource:** <https://www.w3schools.com/css/default.asp>

Heading 1

Heading 2

Heading 3

This is a paragraph. [This is a link to Google](#). This is some **bold text**. This text is *italicized*. This is an email link my@email.com
This text follows a line break. Make sure you close all your tags



- This is an
- unordered list...

1. This is an
2. ordered list...

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<title>Title of the document</title>
```

```
<link rel="stylesheet" href="style.css">
```

→ External CSS

```
<style>
```

```
body {
```

```
color: #333333;
```

```
font-family: verdana;
```

```
font-size: 1em;
```

```
}
```

```
h1 {text-align: center;font-size: 4em;}
```

```
div#main{margin: 0 auto;background-color:#FFFFFF;padding:2em;}
```

```
img.photos{display:block;margin: 0 auto;}
```

```
</style>
```

```
</head>
```

```
<body style="background-color: lightblue;padding: 2em;">
```

Internal CSS

```
<div id="main">
```

ID

```
<h1>Heading 1</h1>
```

```
<h2>Heading 2</h2>
```

```
<h3>Heading 3</h3>
```

Inline CSS

```
<p>This is a paragraph. <a href="http://google.com">This is a link to Google</a>.
```

```
This is some <strong>bold text</strong>. This text is <em>italicized</em>. This is an  
email link <a href="mailto:my@email.com">my@email.com</a>
```

```
<br />This text follows a line break. Make sure you close all your tags</p>
```

```

```

Class

```
<ul>
```

```
<li>This is an</li>
```

```
<li>unordered list...</li>
```

```
</ul>
```

```
<ol>
```

```
<li>This is an</li>
```

```
<li>ordered list...</li>
```

```
</ol>
```

Scripting Languages

- Add dynamic and interactive functionality to a website
 - Forms, experiments, search functions, games, etc.
- There are two types of scripting languages, client-side and server-side, need two languages:
 - **JavaScript**
 - **PHP (Hypertext Preprocessor)**
- **Resources**
 - JavaScript: <https://www.w3schools.com/js/default.asp>
 - PHP: <https://www.w3schools.com/php/default.asp>

Client-Side vs Server-Side Scripting

Client-side languages

- Work on the user's computer after the webpage is loaded
- **Example:** auto-validation on forms
- JavaScript
- We be using jsPsych, which is built on JavaScript, to run our experiments

Server-side languages

- Works on the server before the webpage is loaded
- **Examples:** WordPress, COVID Vaccine Booking
- PHP
- We will use a PHP script to save the participant's data to the server


```
...mirror object to mirror...
mirror_mod.mirror_object = ...

operation == "MIRROR_X":
    mirror_mod.use_x = True
    mirror_mod.use_y = False
    mirror_mod.use_z = False
operation == "MIRROR_Y":
    mirror_mod.use_x = False
    mirror_mod.use_y = True
    mirror_mod.use_z = False
operation == "MIRROR_Z":
    mirror_mod.use_x = False
    mirror_mod.use_y = False
    mirror_mod.use_z = True

#selection at the end -add
mirror_ob.select= 1
modifier_ob.select=1
context.scene.objects.active =
("Selected" + str(modifier_ob.name))
mirror_ob.select = 0
= bpy.context.selected_objects[0]
data.objects[one.name].select = 1

print("please select exactly one object")

-- OPERATOR CLASSES -----

...types.Operator):
    X mirror to the selected
    object.mirror_mirror_x"
    mirror X"
```

jsPsych Basics

Consent Forms

Surveys



Homework

Create a functional consent form & background questionnaire

- **Consent Form:** Use the “Click next to consent” method
 - *Challenge: Try the radio button response method*
- **Background Questionnaire:**
 - survey-text for age, gender, place of birth, languages spoken
 - survey-likert for the Language Use Index for English
 - survey-multi-choice for socioeconomic status, education, rurality
 - survey-multi-select options for continents visited
 - *Challenge: try to use survey-html form for some or all of this*

Resources

- jsPsych Website: <https://www.jspsych.org>
- W3Schools: <https://www.w3schools.com/>
- Google
- Email Lisa: lisasullivan@cunet.carleton.ca

Next Time

- Integrating sound files
- Advanced blocks
- Running multiple trials
- ABX tasks

The background is a light cream color with several decorative elements. In the top left is a light blue circle with an orange flower-like pattern and a crosshair. In the top right is a large pink circle with thin yellow radial lines. In the bottom left is a large pink circle with wavy horizontal lines. In the bottom right is a large pink circle with a dense pattern of small dashes. Scattered throughout are various smaller circles in shades of pink, orange, and blue.

Thank you!