



# PROJECT HUEBREW

PROJECT RECAP PRESENTATION

# PROJECT OVERVIEW

- Final project for COS-796 toward completion of the master's program
  - Development of interface to control Phillips Hue lights from a web browser
  - Practical application of software engineering and management information technology techniques
  - Self-paced learning of new technologies for web development
- Project was selected to further my knowledge of web development skills
  - Learning web development skills to enhance my existing technical authoring capability and increase my value as an information developer
  - I want to work in HTML and XML authoring environments – a strong foundation in web technologies like JavaScript and CSS is beneficial to my career prospects

# PROJECT GOALS

- Demonstrate ability to write project scope and define software requirements
- Use Git for source control and repo management
- Learn JSON syntax and data types
- Learn JavaScript (with JQuery), CSS (with LESS preprocessor), and HTML
- Learn how to use JSON with JavaScript and HTML
- Learn how to manipulate information collected from complex JSON data
- Learn how to contact an API and collect JSON response
- Develop a basic web application making use of a publicly available API (Phillips hue API)

# PROJECT OUTCOME

- Developed a web browser interface to control Phillips Hue lights
  - Used the web app to successfully control the Hue lights in my apartment
  - Demonstrated app capability on an emulated Hue bridge on school network
- Implemented code using JSON, JavaScript, CSS, and HTML
  - Used various online learning resources and textbooks to learn how to write code in JavaScript, including JQuery and Ajax requests
  - Learned how to dynamically update and create HTML elements
  - Learned how to use LESS mixins to make CSS more versatile
- Used Git for source control
  - Final source code and project plan is available at <https://github.com/purplestencil/project-huebrew>
  - Project plan is hosted at <https://purplestencil.github.io/project-huebrew>

# LEARNING CURVE

- Before starting the project:
  - HTML and CSS skills were rudimentary
  - Had limited exposure to JavaScript
  - Had no knowledge of JQuery, Ajax, or JSON
- During the course of the project:
  - Learned how to use all the above technologies to a fair level of experience
  - Demonstrated an ability to learn independently
  - Successfully implemented code written using these technologies
- After finishing the project:
  - Increased confidence in using the new technologies learned
  - Can now create and basic dynamic HTML websites
  - Can use publicly available APIs to create web apps that talk to other websites
  - Can use JavaScript to add value to my job as an information developer



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May 2, 2017