Brett,

I have designed this engineering challenge to build upon itself. Please make your best effort for each step. I know this stuff will be new to you, but if you can pick up on most of this stuff then I am confident that you will be good fit at uTaP.

Communication is key. Please keep me informed of your progress. Let me know if you have any questions. Let me know if you get stuck on something. Don’t be afraid to communicate with me as you work this out. Please try your best.

Please note the deliverables for each step of the challenge. Please keep each challenge in its own folder. You will submit one zipped folder at the end to me.

## Challenge 1

1. Create an HTML document that displays “Hello World.”
2. Add 6 more paragraphs.
3. Use CSS to make each paragraph a different color; ROYGBV.
4. Use CSS classes for each color.

#### References:

* <http://www.w3schools.com/html/default.asp>
* <http://www.lipsum.com/>
* <http://www.w3schools.com/css/default.asp>

### Deliverables:

* 1 HTML file.
* 1 Externally linked CSS file.

## Challenge 2

1. Use Twitter’s Bootstrap Grid System to recreate your resume as an HTML document.

#### References:

* <http://twitter.github.com/bootstrap/scaffolding.html#gridSystem>
* <http://twitter.github.com/bootstrap/examples/hero.html>

### Deliverables:

* 1 HTML file.
* 1 Externally linked CSS file.
* 1 Externally linked bootstrap.css file. (available for download from <http://twitter.github.com/bootstrap/index.html>)

## Challenge 3

1. Copy Challenge 1 as a base.
2. Use javascript to make each paragraph appear 500ms after the previous.
3. Add two drop-down select boxes under “Hello World.”
   1. box 1 will allow the user to select a paragraph
   2. box 2 will allow the user to select a color of ROYGBV
4. Add an “Apply” button next to the select boxes.
   1. When clicked, this button will apply the selected color to the selected paragraph.

#### References:

* <http://www.w3schools.com/js/default.asp>
* <http://www.w3schools.com/js/js_timing.asp>
* <http://www.w3schools.com/html/tryit.asp?filename=tryhtml_select2>
* <http://www.w3schools.com/js/js_howto.asp>
* document.getElementById(“id”);

### Deliverables:

* 1 HTML file.
* 1 Externally linked CSS file.
* 1 Externally linked JS file.

## Challenge 4

1. Copy Challenge 3 as a base.
2. Use jQuery to make what you have easier.
   1. jQuery selectors will be your best friend.
3. Use jQuery to bind a click handler to each paragraph such that when the user clicks a paragraph that selection is reflected in the select box.
4. BONUS: Use a modal overlay to display a color picker in close proximity to the mouse such that the user doesn’t have to mouse all the way to the top of the screen to select a color.

#### References:

* <http://docs.jquery.com/Main_Page>

### Deliverables:

* 1 HTML file.
* 1 Externally linked CSS file.
* 1 Externally linked JS file.
* 1 Externally linked jquery.js file. (available for download at <http://docs.jquery.com/Downloading_jQuery#Current_Release>)