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About this capture

2016 (http://web.archive.org/web/20161013090906/http://web.stanford.edu:80/class/cs142/project1.html)

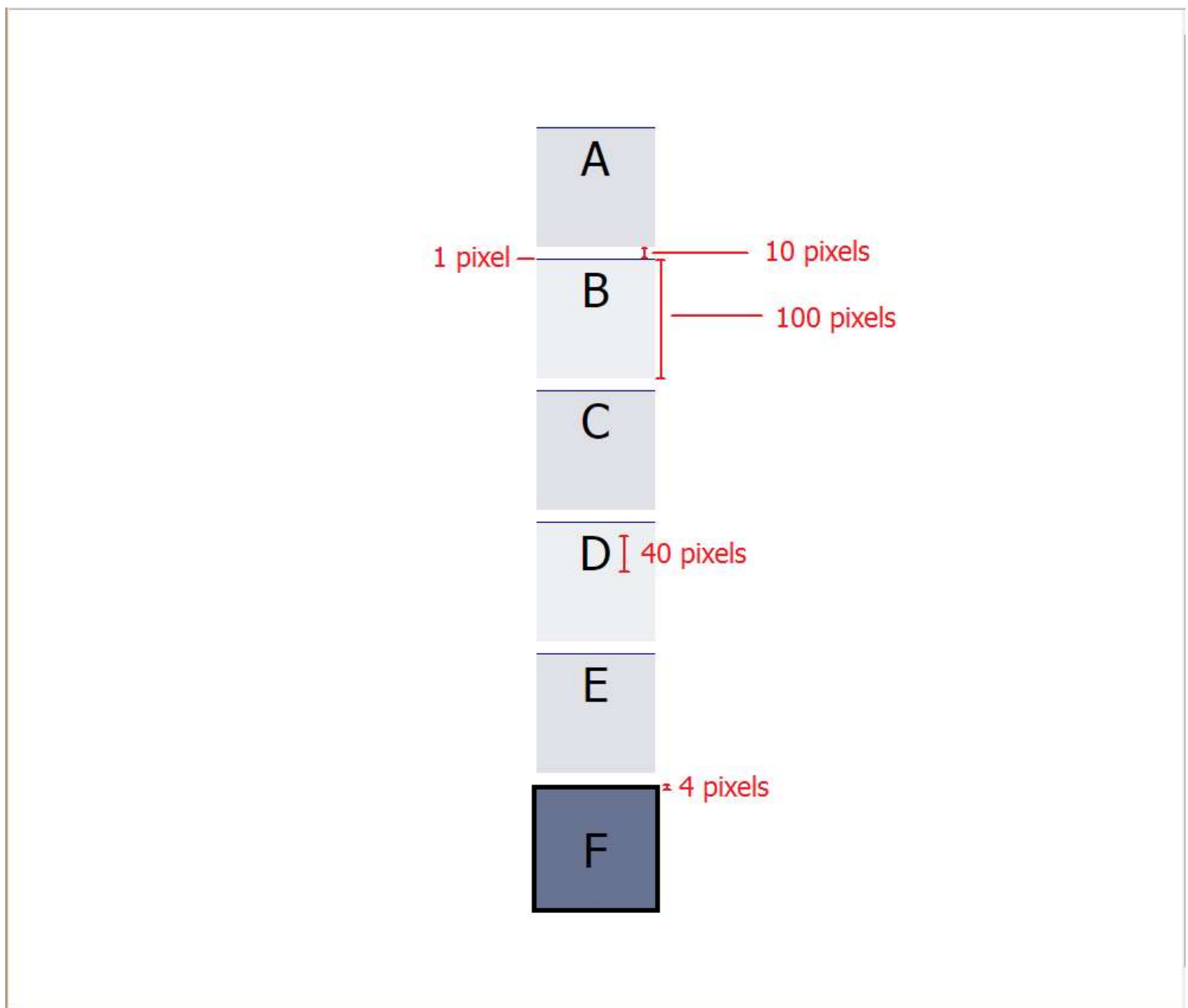
# CS142 Project 1: HTML and CSS

Due: Thursday, October 5, 2017 at 11:59 PM

## Problem 1 (20 points)

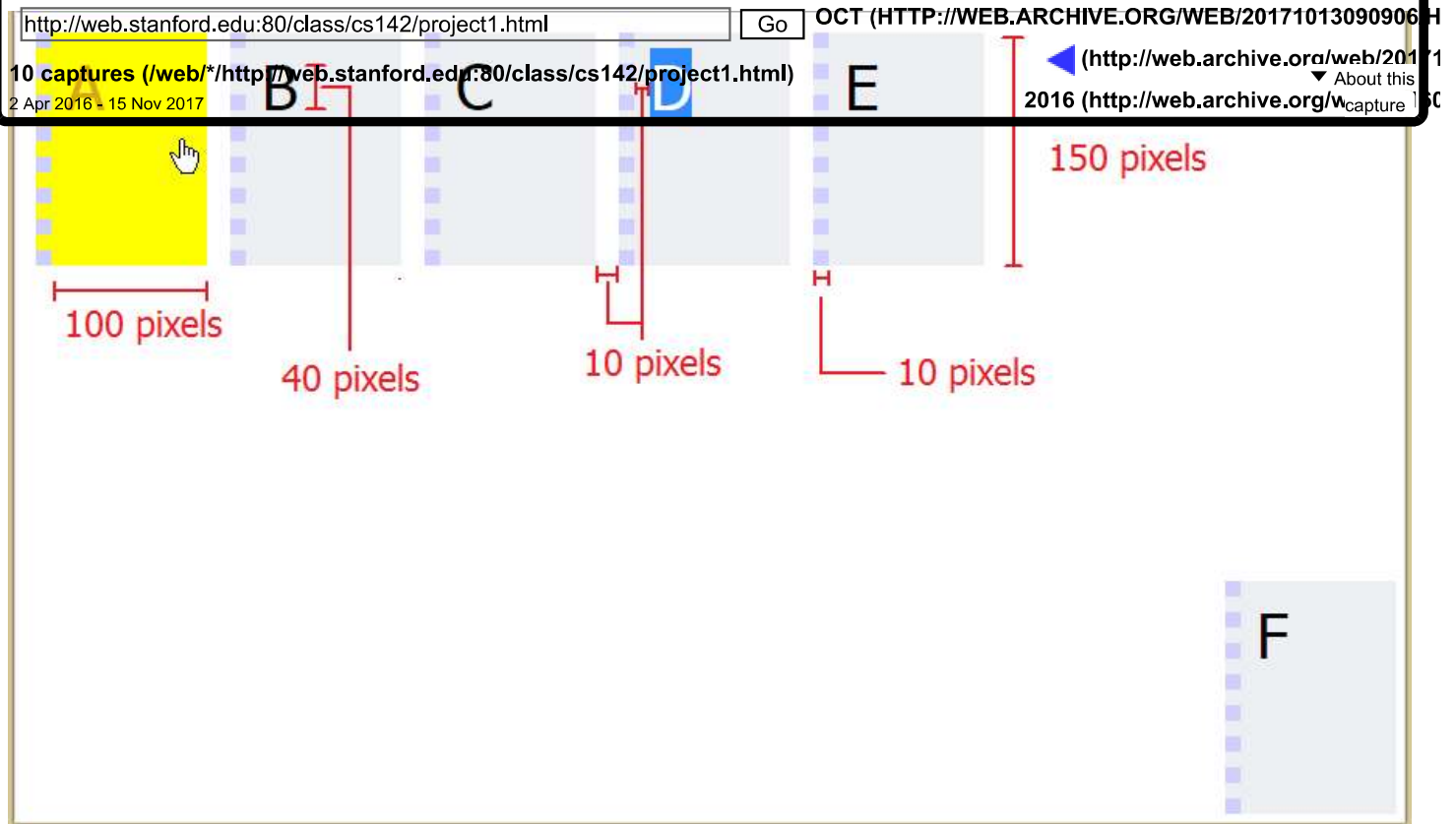
Create a *single* HTML document that presents two different appearances, determined by the document's CSS stylesheet. Your HTML file should be called `index.html` and the document's title should be `CS142 Project #1`. The two stylesheets should be called `styleA.css` and `styleB.css`.

If the HTML file links to `styleA.css` then it should appear like this ("Version A"):



If the HTML file links to `styleB.css` then it should appear like this ("Version B"):

**Note: The D in the screenshot is highlighted to show you what space the text should occupy. Your solution should not style the D with a blue background.**



## Style A Specifications

- There should be six box elements, lined up vertically.
- All boxes are centered horizontally and equally spaced vertically, even as the window resizes. In other words, the vertical spacing between boxes should not be fixed.
- Each box is 100x100 pixels, with a 1px line (color: #687291) on top. Text is centered horizontally.
- Boxes alternate colors (colors: #dfe1e7, #eeeeff2).
- The final element (color: #687291) has a 4px, black border and the text is centered vertically.
- The font in all elements is Tahoma, 40 pixels.

## Style B Specifications

- Five box elements, lined up horizontally in the top left corner.
- Boxes do not wrap with window resizing (i.e. Boxes A through E should stay on the same line even if your browser window is too small to display them all).
- The last box is positioned in the bottom right corner of the window and stays there even when the window resizes.
- Each box is 100x150 pixels (color: #eeeeff2), with a 10px dotted line (color: #D0D0FF) on the left. Boxes are separated by 10 pixels of space.
- When hovering over an box, the cursor changes to a hand and the box and font colors change (colors: yellow, goldenrod, respectively).
- The font in all elements is Tahoma, 40 pixels.
- There are 10 pixels of space between the letters and the edge of the box.

If a property is not outlined in these specifications (e.g. space between elements in style B and edge of window) you should choose something reasonable.

## Style Points (5 points)

(<https://archive.org/account/login.php>)

Your HTML file must be a valid XHTML 1.0 document that passes validation at <http://validator.w3.org> ([http://web.archive.org/web/20171115182218/http://validator.w3.org/#validate\\_by\\_input+with\\_options](http://web.archive.org/web/20171115182218/http://validator.w3.org/#validate_by_input+with_options)). In addition, your web HTML and CSS must be: 80 classes each, properly indented, and well-structured. 2 Apr 2016 - 15 Nov 2017 2016 ([http://web.archive.org/web/20171115182218/http://validator.w3.org/#validate\\_by\\_input+with\\_options](http://web.archive.org/web/20171115182218/http://web.archive.org/web/20171115182218/http://validator.w3.org/#validate_by_input+with_options))

## Extra Credit (2 points)

Create a third stylesheet `styleC.css` that utilizes 2 of the following:

- gradients
- transitions
- animations
- web fonts
- shadows

## Resources

- Use the Chrome browser for this project, and for all projects in this class. This will eliminate browser compatibility issues.
- You will need basic knowledge of Unix in order to submit your assignments. Click here (<http://web.archive.org/web/20171115182218/https://courseware.stanford.edu/pg/pages/view/371921/cs107-guide-on-using-unix>) for an introduction to browsing and manipulating the UNIX file system.
- You may **not** use any JavaScript or external libraries/stylesheets. You must write your own code.

## Hints

- You may find some of the following CSS style attributes useful for this project (do a Google search for the documentation for exact usage details):

```
display: inline-block;
height: 100%;
white-space: nowrap;
```

- You will need to use the CSS Flexbox layout ([http://web.archive.org/web/20171115182218/https://developer.mozilla.org/en-US/docs/Web/CSS/CSS\\_Flexible\\_Box\\_Layout](http://web.archive.org/web/20171115182218/https://developer.mozilla.org/en-US/docs/Web/CSS/CSS_Flexible_Box_Layout)) for at least one portion of the assignment.

## Deliverables

Use the standard class submission mechanism (`submit.html`) to submit all of the files needed for Problem 1, including `index.html`, `styleA.css`, `styleB.css`, and (optional) `styleC.css`.