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Responsive Design

11/8/2015

Instruction Project

This is a set of instruction to make your website responsive, which means to make it usable on all platforms (tablet, phone, etc.) using visual studio in windows.
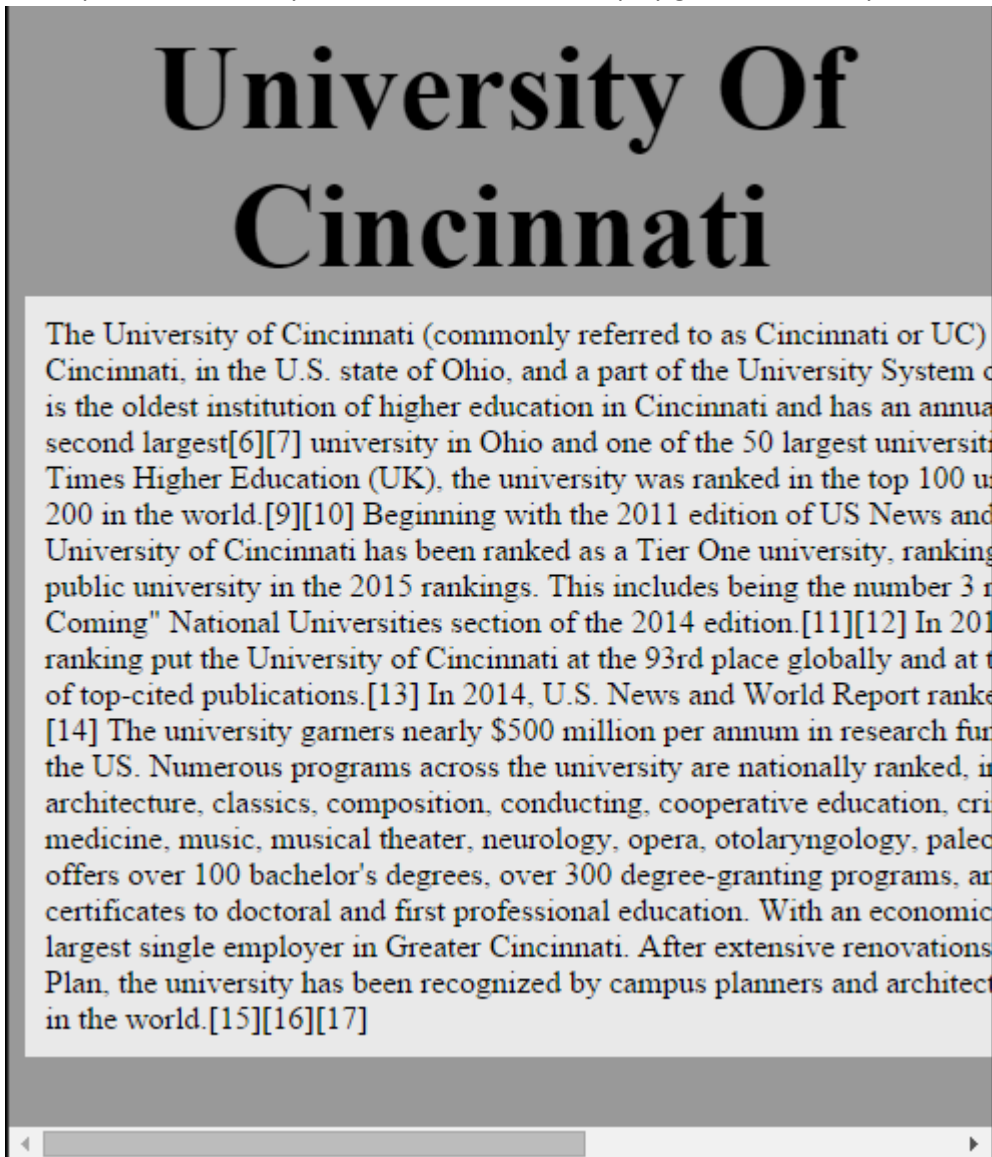
Some notes to consider:

- May require basic knowledge using Github or other version control systems and Visual Studio.
- Will not work in older browsers since responsive design is relatively new.
    - The reason being is smart phones and tablets are newer than older browsers like Internet Explorer 9 and lower, so that means no phones or tablets don't use those browsers.

1. Go to https://github.com/wisnieca/ResponsiveDesign to access source code.
2. Clone the repository or open in visual studio if applicable.
    a. If you do not have Github Desktop installed
        i. Click copy next to URL to clone repository on github page.
        ii. Open windows command prompt.
        iii. Change to desired directory (folder).
        iv. Type "git clone" and then paste the URL and press ENTER.
    b. If you have it installed or want to install it visit
        https://help.github.com/desktop/guides/getting-started/installing-github-desktop/
        i. Then on github page click Clone in Desktop.
        ii. Verify name and location and click CLONE.
    c. Visit https://help.github.com/articles/cloning-a-repository/ for any other questions
3. Once you have the repository downloaded, right click on Default.html and click view in browser.
4. You should see this when you first visit the page (all text is pulled from
    https://en.wikipedia.org/wiki/University_of_Cincinnati)

University Of Cincinnati

The University of Cincinnati (commonly referred to as Cincinnati or UC) is a comprehensive public research university in Cincinnati, in the U.S. state of Ohio, and a part of the University System of Ohio. Founded in 1819 as Cincinnati College, it is the oldest institution of higher education in Cincinnati and has an annual enrollment of over 40,000 students, making it the second largest[6][7] university in Ohio and one of the 50 largest universities in the United States.[8] In the 2010 survey by Times Higher Education (UK), the university was ranked in the top 100 universities in North America and as one of the top 200 in the world.[9][10] Beginning with the 2011 edition of US News and World Report Best Colleges rankings, the University of Cincinnati has been ranked as a Tier One university, ranking as the 129th best overall university and 63rd best public university in the 2015 rankings. This includes being the number 3 ranked university in the nation in the "Up-and-Coming" National Universities section of the 2014 edition.[11][12] In 2011-2012 academic year the Leiden University ranking put the University of Cincinnati at the 93rd place globally and at the 63rd place in North America by the proportion of top-cited publications.[13] In 2014, U.S. News and World Report ranked UC in the Top-200 of universities worldwide. [14] The university garners nearly $500 million per annum in research funding, ranking 22nd among public universities in the US. Numerous programs across the university are nationally ranked, including: aerospace engineering, anthropology, architecture, classics, composition, conducting, cooperative education, criminal justice, design, environmental science, law, medicine, music, musical theater, neurology, opera, otolaryngology, paleontology, pediatrics, and pharmacy. The school offers over 100 bachelor's degrees, over 300 degree-granting programs, and over 600 total programs of study, ranging from certificates to doctoral and first professional education. With an economic impact of over $3.5 billion per year, it is the largest single employer in Greater Cincinnati. After extensive renovations through the implementation of the 1989 Master Plan, the university has been recognized by campus planners and architects as one of the most distinguished campus settings in the world.[15][16][17]

5. If you hit the "Restore Down" button ⧉ on the browser and shrink the browser size to the size that a phone would be, you start to see that the display gets a little funky.

6. Notice that all of the text does not fit into the screen and to see it all you must scroll the window horizontally.
7. To fix this open up the Default.css file, go to the end and hit ender a few times, this is where we are going to fix the web page to make it responsive.
8. When you open Default.css you notice there are already some lines of code in there, that is there to make the page look how it is now.
9. Locate the "div.content" tag, this is the container of the main text, and notice how it has a width of 800px with 10px of padding all the way around, that means that the total width of the text container is 820px wide. That means that whenever the screen size is less than that, the text will be off the screen.

10. In the Default.css file type:

    @media only screen and (max-width: 820px) {

           div.content {width: calc(100% - 20px);}

    }

```
div.content {width: 800px; background: #e9e9e9; margin: auto; padding: 10px;}
body {background: #999;}
div.title {text-align: center; FONT-SIZE: 60px; font-weight: bold;}

@media only screen and (max-width: 820px) {
    div.content {width: calc(100% - 20px);}
}
```

11. What this says is that whenever the screen size is 820px or smaller the "div.content" width will now be 20px less than the screen size (100%).

12. Now reload the page and make the screen small again, notice how the text does not wrap and how there is no horizontal scroll bar.

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13. Responsive design is a very important concept and is only getting more and more popular, and this is just a small example of how it works.