WCAS Data Visualization Instructions

# Running the site

The site can only run from a web server. It won’t run by just opening the html file from your desktop.

Simply upload the entire contents of the “web” folder via an FTP client to any web host.

# Editing the data

Two files are located in the project’s R directory. After editing them

**2011-present.xlsx** has a row for each student. The years are in different worksheets. To add a new year, add a worksheet with the same name and in the same format as previous years.

**divisions.csv** maps each of the majors to a division, subdivision, code, and optionally a “display name”. The “major” column must match exactly with the “Major #” and “Minor #” columns in the excel spreadsheet. If the major column is awkwardly phrased, you can use “display\_name” to have a different name appear on the website.

# Sending new data to the website

The two data files need to be combined and simplified for consumption by the website. The code file to combine and simplify the data for consumption by the website is “tidy data.R”.

To install R:

1. Download and install the R core at <https://cran.cnr.berkeley.edu/>
2. Download and install the free version of RStudio Desktop at <https://www.rstudio.com/products/RStudio/#Desktop>

To run the code:

1. Open RStudio.
2. Open the File view (tab in the bottom right by default), and navigate to the project’s R directory.
3. In the “More” dropdown button, select “Set as Working Directory”.
4. Open the “tidy data.R” file.
5. Click the “Source” button (Ctrl + Shift + S).
6. The code will place the output file in the “web” directory.
7. Upload the “web” directory to your web host.

If there are any questions, contact Steve Haroz at [steve.haroz@gmail.com](mailto:steve.haroz@gmail.com)