Coding Standards and Guidelines

Team Treefluent

1. Thoroughly plan your code before implementing an idea
     a. Declare variables close to where they're used
     b. Order declarations logically
     c. Create an outline for different sections of the app before
        writing
2. Don't document more than absolutely necessary
     a. Explain purpose of functions or complicated lines
     b. Excess explanation only distracts the reader
3. Write readable code
     a. Clear and concise variable names
          i.   camelCase
          ii. Consistent for similar functions
     b. Function names should reflect their purpose
          i.   Also do camelCase
4. Security
     a. Keep individual user data private
     b. Only use aggregate data in visualizations
5. Reduce the complexity of programs
     a. Find simple implementations
          i.   Don't overcomplicate code wherever possible
6. Test and review new implementations
     a. Make sure new code works
     b. Look for improvement on prior code
7. Iterate on your designs and repeatedly measure progress
     a. Communicate with Vanessa to find issues with current code
     b. Ask group members to check code for possible improvements
     c. Save progress to learn from previous implementations
8. Formatting
     a. Use empty lines to separate groups
     b. Within a block, align all the statements to the same tab
     c. Use indentation to show the hierarchy of the code

d. Use spaces around operators