

Zachary Lopez | Dr. Dingding Wang | COP 3813 | 20 October 2024

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[lamp.cse.fau.edu/~zlopez2021/p3](http://lamp.cse.fau.edu/~zlopez2021/p3)

## Project Overview

This project involved creating a statistical calculator web application using HTML, CSS, JavaScript, and Bootstrap. The application performs basic statistical calculations on three input numbers, displaying results like maximum, minimum, average, median, and range.

## Development Tools and Environment

Editors Used:

- Visual Studio Code

Browsers Tested:

- OperaGX
- Edge
- Firefox

Validation:

- My HTML5 code was validated using the W3C Markup Validation Service and was found to be compliant with no errors.
- My CSS code was validated using the W3C CSS Validation Service and was found to be compliant with no errors.

## Development Challenges

Time consuming tasks:

- Ensuring statistical calculations remain accurate with decimal inputs

## Detailed Website Description & Inspirations

The statistical calculator features a clean, modern interface with a dynamic background system. The background randomly changes on page load, selecting from an array of professional background images. I added a dedicated "New Background" button to allow users to manually trigger background changes, creating an interactive and engaging experience.

The calculator itself follows a simple, intuitive design with three clearly labeled input fields and a calculate button. Results are displayed in an organized, easy-to-read format with appropriate spacing and typography. The design draws inspiration from modern web applications while prioritizing functionality and user experience.

## Files Included

For submission, a single zip file containing all necessary files for viewing the webpage in a browser is attached. The zip file includes:

- HTML Files (/): index.html at root
- CSS Files (/assets): main.css for custom classes and more tweaks
- JS Files (/assets): main.js for functions
- Images (/assets/images): all my PNGs and JPEGs used for the backgrounds
- Favicon (/favicon.ico): For the title bar favicon of course.