

<b>Project Title</b>	Interactive Infographics
<b>Technologies</b>	HTML, CSS, JavaScript
<b>Project Difficulties level</b>	Hard

### Project Description:

In this project, you will create an interactive infographic that displays data in an engaging and visually appealing manner. An interactive infographic is a dynamic representation of information that allows users to explore data through various interactive elements like animations, tooltips, and user interactions. This project will help you hone your skills in HTML, CSS, and JavaScript, while also emphasizing data visualization and user experience.

### Project Requirements:

- **Choose a Topic:** Select a topic or theme for your infographic. It could be related to statistics, facts, trends, or any subject that interests you. Ensure that the topic is suitable for data representation.
- **Data Collection:** Gather the data that you will represent in your infographic. This data can be in the form of numbers, percentages, or any other quantifiable information. Make sure your data is relevant to your chosen topic.
- **HTML Structure:** Create the HTML structure for your infographic. This structure should include the main content, sections for data visualization, and any other elements you plan to incorporate, such as images or icons.
- **CSS Styling:** Apply CSS styling to make your infographic visually appealing. Consider using color schemes, fonts, and layout techniques that enhance the readability and aesthetics of the infographic.
- **Data Visualization:** Use JavaScript to create interactive data visualizations. This could involve animations, charts, graphs, or any other creative way to represent your data. Ensure that users can interact with these visualizations.
- **Tooltips:** Implement tooltips that provide additional information when users hover over or click on specific elements of the infographic. Tooltips should enhance user understanding of the data.

- **User Interaction:** Add interactive elements that allow users to navigate the infographic or explore the data. This might include buttons, sliders, or other user-triggered actions.
- **Responsive Design:** Ensure that your infographic is responsive and looks good on various screen sizes, from mobile devices to desktop computers.
- **Testing:** Thoroughly test your interactive infographic to ensure all elements work as intended. Pay attention to user experience and make any necessary refinements.
- **Documentation:** Create a document that explains your design choices, the data sources, and any notable technical aspects of your project. Include a brief user guide on how to interact with your infographic.

#### **Submission Guidelines:**

- Compile all your HTML, CSS, and JavaScript files into a single folder.
- Write a short README file explaining how to open and interact with your infographic.
- Compress the folder into a ZIP file for submission.

#### **Grading Criteria:**

Your project will be evaluated based on the following criteria:

- Creativity and relevance of the chosen topic.
- Accuracy and presentation of data.
- Visual design and aesthetics.
- Functionality and interactivity.
- Responsiveness on different devices.
- Documentation quality.

#### **Additional Notes:**

- Feel free to seek help and resources online, but make sure your work is original and properly documented.
- If you have any questions or need clarifications, please don't hesitate to reach out for assistance.

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This project offers you a great opportunity to combine your HTML, CSS, and JavaScript skills with creative data visualization to create an engaging and informative interactive infographic. Have fun, and best of luck with your project!