C219 Front-end Web Development

**Lesson 10**

Worksheet

Introduction to Infographics

1. What is an infographic? Search for a good example and link to the image here.  
   **Infographic is a collection of imagery, data visualizations using charts, and minimal text**

<https://www.chairoffice.co.uk/media/15820/chair-office-world-records.jpg>

1. Explain the differences and advantages of an interactive infographic compared to traditional infographics. Provide a link to a good example of an interactive infographic.

Interactive infographic has dynamic elements like animations, flip tiles, clickable charts, and buttons. As a result, readers can understand the story the data is trying to convey to the reader and is more likely to engage with the content.

<https://fathom.info/miles-web/>

Types of Infographics and their Uses

1. Read this [article](https://piktochart.com/blog/8-types-of-infographics-which-right-for-you/) on the types of infographics. List the different types of infographics and their uses in the table below.

|  |  |
| --- | --- |
| **Type of Infographic** | **Uses** |
| Timeline infographic | Demonstrate how an idea, project, or story came to be in visual content |
| Process infographic | Wanting your audience to retain details of a process or procedure quickly (like a manual) |
| Informational infographic | For presenting highly technical subject to an audience who is not familiar with the topic. Like presenting a new idea or sharing an overview of a specific topic. |
| Map infographic | Present data through the use of demographic data or location-based information like illustrating what book is trending in Singapore or Malaysia. |
| Resume infographic | Allow job seekers to present their resume that sets them apart from other candidates |
| List infographic | Display to the audience a collection of tips, ideas, topics to summarize your presentation |
| Data visualization infographic | Used to communicate data using charts and graphs. Can be used to solve a case of an argument, opinion, or perspective, and make statistics more impactful |
| Comparison infographic | Helps to provide clarity between two or more ideas, concepts, places, and objects |
| Flowchart infographic | Use to simplify workflows, present solutions, brainstorm ideas, visualize the chain of command, share possible scenarios/consequences, and describe processes with multiple paths clear & concise |
| Interactive infographic | Combines traditional design, motion, and interactive elements to be used in data visualization to convey complex ideas and content that catches the audience’s attention |

Interactive Infographics Guidelines

1. Refer to these websites on guidelines for creating interactive infographics:
   * [Website 1](https://www.creativebloq.com/infographic/8-pro-tips-creating-interactive-infographics-11133560)
   * [Website 2](https://rockcontent.com/blog/interactive-infographic/)
   * [Website 3](https://sachsmarketinggroup.com/8-tips-for-interactive-infographics/)

List the key guidelines gathered from the references above and describe what they mean in the table below.

|  |  |
| --- | --- |
| **Guidelines** | **Description** |
| Understand the psychology | Consider why you are making the infographic interactive. People are more prone to read, understand, and remember presentation with visuals. However, it has a limit, therefore, making the user interact with the visual elements and presentation allows the audiences to remember the presentation more fondly |
| Add spice with scrolling effects / Use Storytelling | Establish a deeper connection with audience so that they feel more engage with the presentation like adding effects to the scrolling (not too much) with some narratives to compel user to finish the story/presentation. |
| Ensure page is responsive | Users may use laptops, smartphones, or tablets, so ensure that website is responsive and works well. |
| Strive for accuracy | Present accurate information |
| Hide some information | Hide some information that becomes viewable after clicks or rollovers as it encourages the user’s curiosity |
| Proofread, edit, and test | Ensure the end product is working as expected and allow others to proofread it to find unexpected errors. |

 **Solving the Problem**

1. Based on the types of infographics listed in question 3, which ones can you apply for your interactive infographic website? Explain with reference to the parts of your website.  
   **For the first section, I believe a data visualization type would be suitable as I want to summarize the data in the table to an easy to a chart that is easy for user to understand. Plus, adding a interactive element like a button that switches the data in the chart between the two weeks can be applied.**

**Second section will probably have data visualizations with some animations to help summarize the point.**

**Third section will be a map infographic as the data recorded are places that exist in Singapore.**

1. So far, you have learned and applied CSS frameworks and JavaScript libraries such as Bootstrap, jQuery, Anime.js and Chart.js. What are the frameworks and libraries you plan to apply for your assignment today? Explain in detail.  
   **I will use CSS to style how the webpages will look, Bootstrap to create a responsive webpage and navbar, jQuery to set up the page for each section and its interact ability, Anime.js to create the web page animation, and chart.js to create the chart that will be used in the webpage**
2. List a few effective interactive infographic websites to refer to for inspiration for your assignment. Provide reasons for your choices. You can list as many websites as you like.

|  |  |
| --- | --- |
| **Websites** | **Reasons** |
| <https://www.nationalgeographic.com/new-york-city-skyline-tallest-midtown-manhattan/> | Allows user to hover over and read information from a monochromatic image of a city |
| <https://www.informationisbeautiful.net/visualizations/worlds-biggest-data-breaches-hacks/> | Simple, easy to understand, have some information hidden that when is hover over, will be revealed. |
| <https://www.simplybusiness.co.uk/microsites/hungry-tech/> | Creative, has filter, some information is hidden till clicked over hovered, Some spaces for viewers to have breathing space. |

1. Design a low-fidelity wireframe for your interactive infographic and attach it below (image or XD link):

|  |
| --- |
| **Wireframe**    <https://xd.adobe.com/view/62defeb4-c328-497e-a3ae-cfc88ed45316-378d/> |

 **Deliverables**

Individual submission:

* Worksheet
* L10 Assignment
  + Name your folder L10 Assignment
  + Web page – index.html
  + External stylesheet – style.css
  + External JavaScript – script.js
  + All other assets should be in a folder

**Submit all deliverables by 2359 today.**