

Project 12: Leaflet Cheat Sheet (Up to 100 Points)

Task: Generate a two-page (each sheet 11 x 8.5 inch, landscape orientation) PDF cheat sheet that summarizes key components of Leaflet JS. Some good example software cheat sheets can be found here:

<https://opensource.posit.co/resources/cheatsheets/>. The goal of this cheat sheet is to provide a single-page reference and summary of key HTML syntax. You can use any graphics generation software of your choosing. Good tools include Publisher, Power Point, Adobe Illustrator, Inkscape, and Draw.io.

Requirements:

1. Explain how to link to leaflet
2. Explain how to associate a map with a page <div>
3. Explain the basic syntax for creating a map
4. Explain how to set the map zoom level and center
5. Explain how to add attribution controls
6. Explain the LatLng and LatLngBounds types/objects
7. Explain the zIndex and panes system
8. Explain how to add Raster Tile layers and base maps
9. Explain how to create and add Marker, Circle, and Circle Marker objects
10. Explain how to create and add Polyline objects
11. Explain how to create and add Polygon objects
12. Explain the LayerGroup and Feature Group objects/types
13. Explain how to read and add GeoJSON files
14. Explain how to add and configure Popups and Tooltips
15. Explain styling options for the Marker, Circle, Circle Marker, Polyline, and Polygon objects/types

Grading Considerations:

- ❖ All the above topics are included and explained. (Up to 40 Points)
- ❖ Provide examples of the Leaflet syntax and the rendered content (e.g., show unordered list syntax and the generated list). (Up to 20 Points)
- ❖ The content should be as generic as possible. (Up to 10 Points)
- ❖ The page is overall well laid out and easy to follow; content is grouped and organized; the layout makes good use of space (not too sparse or too crowded). (Up to 20 Points)
- ❖ Good use of graphics and color to enhance the sheet. (Up to 10 Points)

Deliverables:

- ❖ Software-specific file (e.g., .ai file)
- ❖ Rendered PDF file