

Live Map of the DC Bus System: Requirements

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Threshold Requirements

1. Show a map of the DC metro region in a web browser
2. Show all WMATA bus routes on the map
3. Show all WMATA bus positions on a map
4. Move bus markers at five second intervals
5. Draw bus stops on a route
6. Tap on a bus stop to see the predicted time until the next bus arrives at that stop
7. Indicate bus direction with each bus marker
8. Show bus route and headsign with each bus marker

Objective Requirements

1. Draw bus routes using colors visually differentiate routes
2. Draw bus positions using the same color used for its route
3. Filter displayed buses and routes by route name
4. Filter displayed buses and routes by proximity to current location
5. Filter displayed buses and routes by proximity to an arbitrary location

6. Draw DC Circulator bus positions and routes