Bike Map Git Project

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Product: A map of the City of Hamilton showing bike lanes across each of the city's 15 wards. Below the map will be various statistics for each ward in chart format

Intent: To observe access to bikelanes across each ward, with a specific focus on neighbourhoods with higher poverty rates.

Languages Used: React, HTML, CSS, JS

Frameworks Used: MapLibre

Sources: OpenFreeMap, Open Hamilton 'Bikeways', Open Hamilton 'Ward Boundaries', Open Hamilton 'Hamilton Bike Share Incorporated Hub',

Input	Process	Output
OpenFreeMap/ MapLibre	 Use to have map focused on City of Hamilton 	Display base centered on City of Hamilton
'Ward Boundaries' GEOJSON	Parse dataOverlay ward boundaries onto OpenStreetMap	Display ward boundaries by colour on the OpenFreeMap
'Bikeways' GEOJSON	Parse dataOverlay bike lanes onto City of Hamilton map	Bike lanes overlayed on the City of Hamilton Map, with colour code
'Bikeways' CSV	 Take Data from CSV file and perform data analysis Place data in Chart on website 	Chart displaying bike lane data according to each ward
'Hamilton Bike Share Incorporated Hubs' GEOJSON	Overlay locations of bike share hubs on map	Display dots representing bike share hubs on the map

Potential Additions: Identify key neighbourhoods of interest. Add a legend. Add selection options for tiers and wards. Add pop up box when click wards

Disclaimers: Bike lanes are only up to date as of 2023. This is the most recent data set from the City of Hamilton's website.

Bike Lane Ranking Methodology: Bike Lanes were ranked according to six tiers from safest to least safe. See next page for rankings:

Tier Number	Colour	Categories
Tier 1	Dark Blue	 Bicycle Lane with Poured concrete barrier Bicycle Lane with Pre-cast concrete barrier Signed Bike Route with Pre-cast concrete barrier Bicycle Lane with Mini-jersey barrier Bicycle Lane with Bollard buffer
Tier 2	Light Blue	 Bicycle Lane with Parking buffer Paved Multi-Use Recreational Trail Multi-Use Path
Tier 3	Cyan	Low Auto Volume Suggested RouteBicycle Path
Tier 4	Brown	Bicycle Lane with Paint buffer
Tier 5	Orange	Bicycle LaneMedium Auto Volume Suggested Route
Tier 6	Red	High Auto Volume Signed Bike RouteHigh Auto Volume Suggested RoutePaved Shoulder