IEA (OECD) - Part 2

Data visualisation designer - assignment

In this notebook I sketch my visualisation idea.

Data Visualisations

Barcode chart

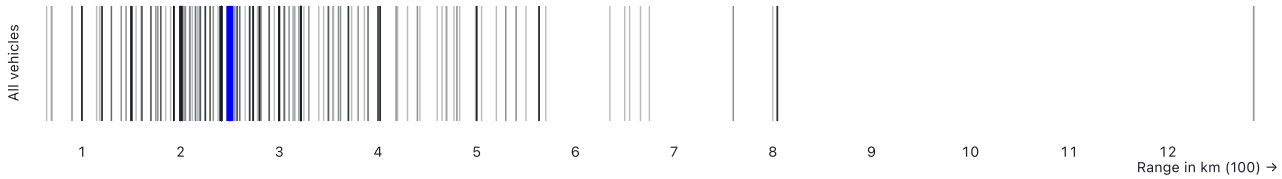
The barcode chart allow users to easily understand the differences in a numeric variable, in this case "range" It also provides the option to click on each data point for more detailed information.

As a user wants to compare different categories the idea is to expand the visualisation into a small multiple of barcode charts.

Step 1

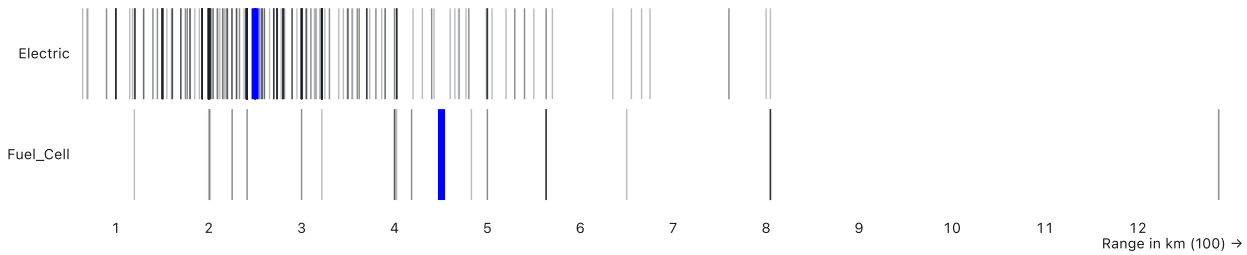
The first visualisation or the starting point of the story includes all vehicles in the dataset. The user can easily understand the differences regarding range and will ask for the reasons. Now by checking on the different categories we give the option to identify patterns and connections.

Median is in blue.



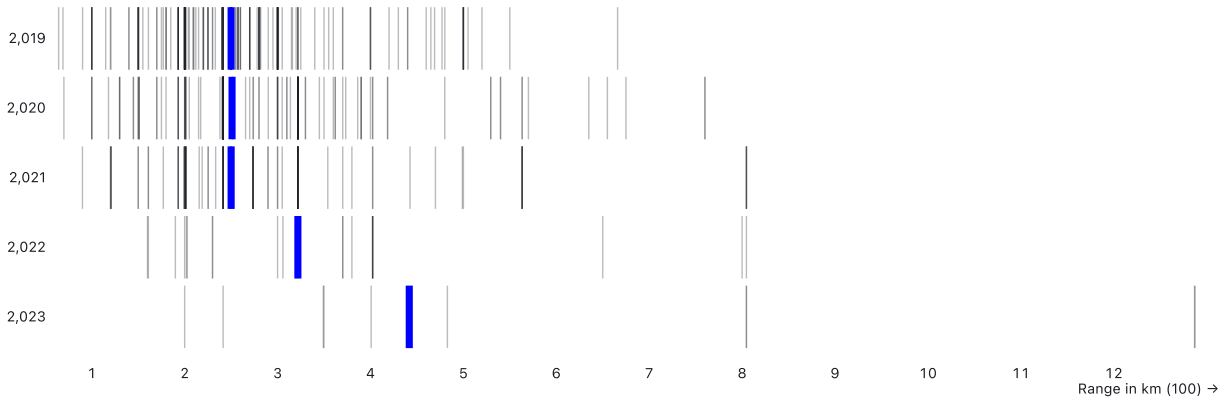
Step 2

By technology we can identify a big increase for the category "Fuel_Cell". The sample size is rather small, which means the median is less reliable.



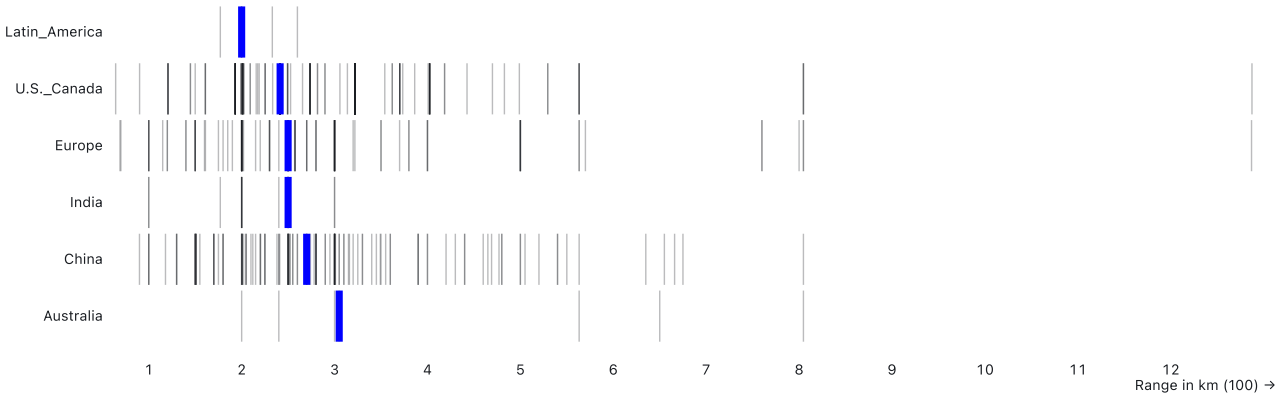
Step 3

By year we can identify an increase in 2022 and 2023.



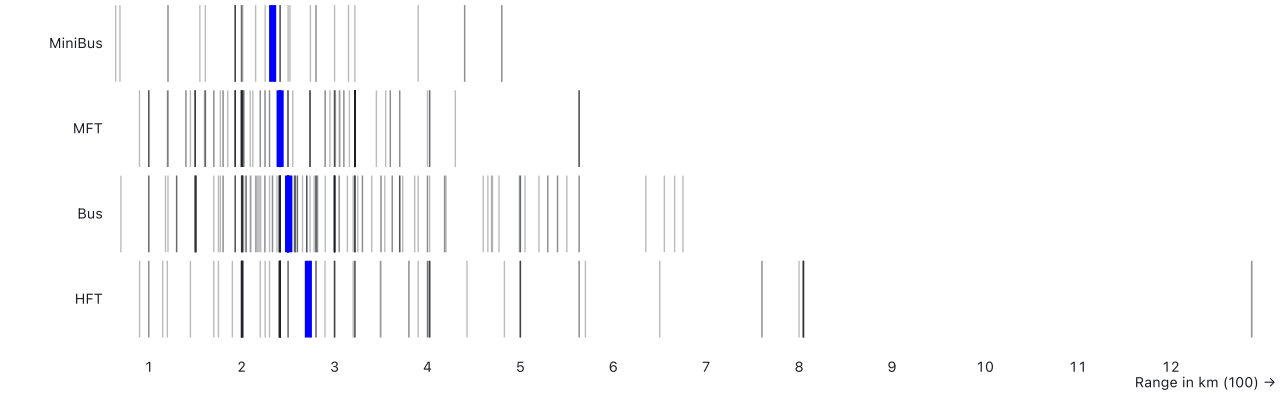
Step 4

By region we can identify less range in Latin America and more in Australia, both categories have small sample sizes.



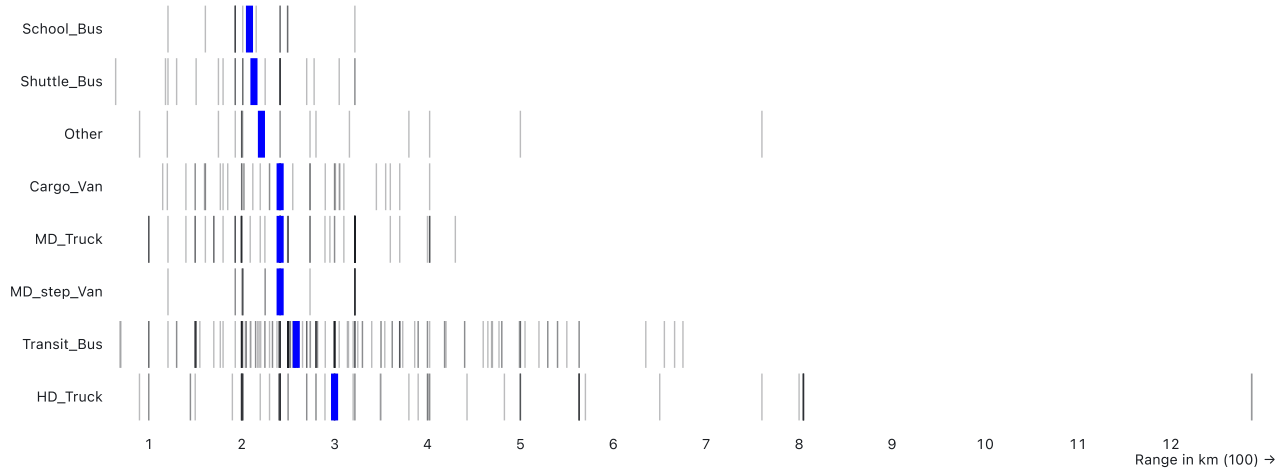
Step 5

By category we can identify a small increase in HFT based on higher variance, too.



Step 6

By vehicle_type we can identify a higher variance in values for HD trucks.



Appendix

```
data = ▶ Table: 6 cols x 629 rows {_names: Array(6), _data: Object, _total: 6
```

```
data_final = ▶ Array(478) [Object, Object, Object, Object, Object, Object, Ob
```

Save

```
width = 900
```

```
color_iea = "#0000FF"
```

```
d3 = ▸ Object {format: ƒ(t), formatPrefix: ƒ(t, n), timeFormat: ƒ(t), timePa
```

```
import {aq, op, table} from "@uwdata/arquero"
```

```
<style>
```