IMD0105 - Special Issues in Information Technology VI

Bokeh Project - Unit 1,2

Natal-RN
March 2017

Goals

- Storytelling using Bokeh & Python
- Explore competences about data visualization

Monitoring of CO2 emissions from passenger cars

Field name	Field Definition	Data type	Primary key
ID	ID	integer	Yes
MS	Member state	varchar(2)	No
MP	Manufacturer pooling	varchar(120)	No
Mh	Manufacturer harmonised	varchar(120)	No
MAN	Manufacturer name OEM declaration	varchar(120)	No
MMS	Manufacturer name as in MS registry	varchar(120)	No
T	Type	varchar(120)	No
Va	Variant	varchar(120)	No
Ve	Version	varchar(120)	No
Mk	Make	varchar(120)	No
Cn	Commercial name	varchar(120)	No
Ct	Category of the vehicle type approved	varchar(2)	No
r	Total new registrations	integer	No
m (kg)	Mass	integer	No
e (g/km)	Specific CO_2 Emissions	integer	No

http://www.eea.europa.eu/data-and-maps/data/co2-cars-emission-11

Rubric

- You must use Notebook Jupyter to code.
- Read the dataset with Pandas
- Adopt scatter, lines and markers plots to tell your conclusions.
- Use Bokeh ColumnDataSource function
- Create visualization with fancy layouts and linked axes and brushing
- At least 3 figures (minimum).
- Creativity is always welcome!!!
- Sharing your results for the world (git, blog, facebook, so on)
- Writing (portuguese or english) a lot about your results and conclusion. Tell us a story!!!

Deadlines

- Deadline 27/03/2017 (midnight)
- Group (limit to 2 students) or alone
- Grade: 40% Unit 1