

Data Visualization

Assignment 2

Group D

MBD 0-1

Marcos Rafael Bergés González
Claudia Alexandra Franco Carrillo
Martin Hofbauer
Francesca Manoni
Demetris Perdikos
Rahul Verma
Gerald Walravens

Table of content:

Part 1: D3:

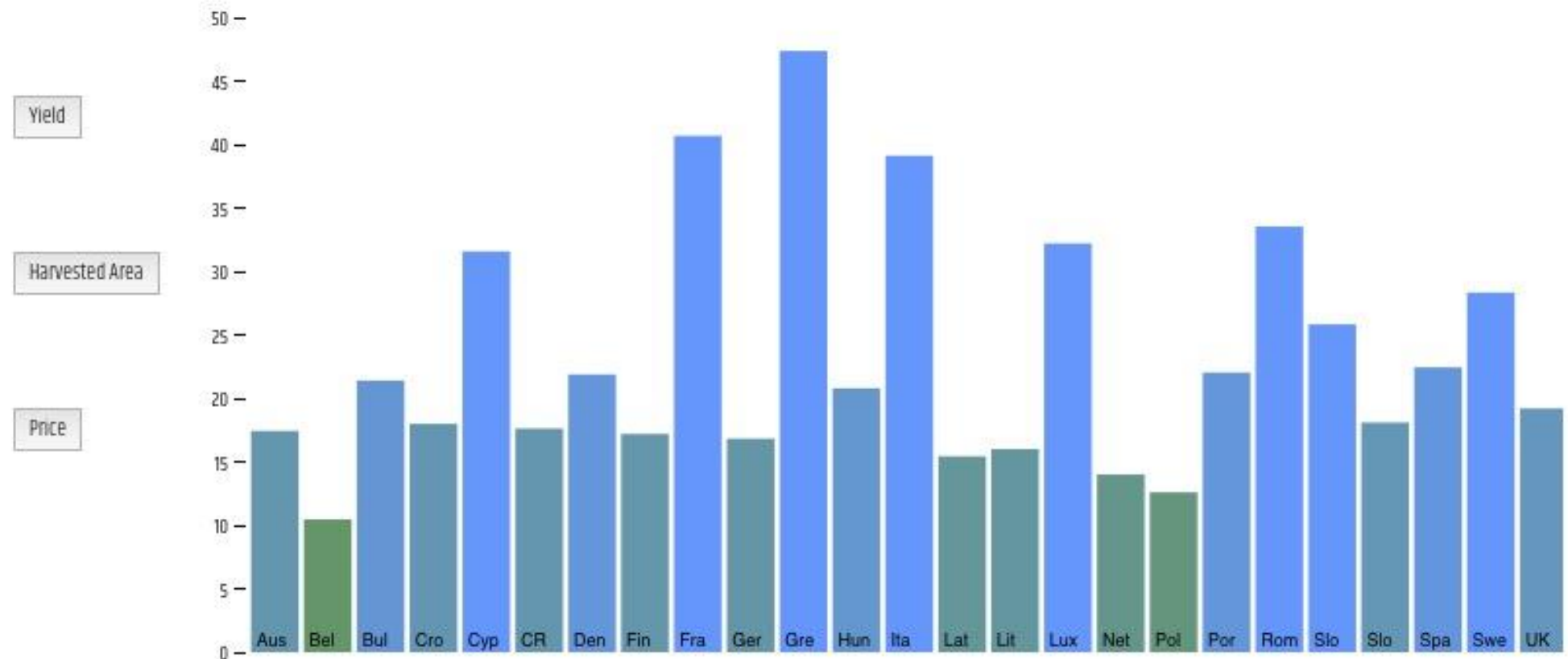
- Animated Bar Chart
- Animated Scatter Plot

Part 2: Complex visualizations in RAWgraphs:

- Beeswarm
 - Beeswarm per Eurozone
 - Commented Beeswarm
- 
- A decorative footer consisting of three overlapping geometric shapes: a dark red triangle on the left, a medium blue triangle in the center, and a light blue triangle on the right.

Animated Bar Chart

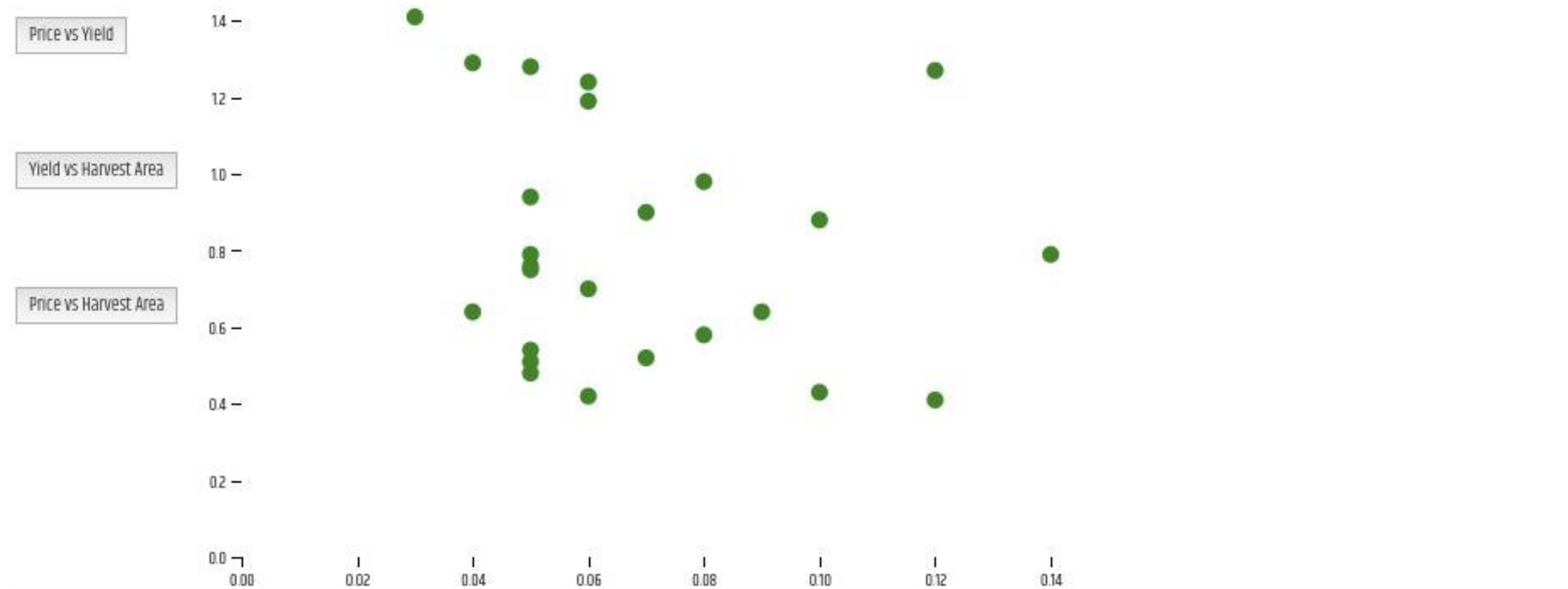
In this bar chart, the average potato yield, price and production values of the European countries are represented. The data ranges from 2010 to 2015.



Link to the code: <https://blockbuilder.org/geraldwal/d34102af95f2bbddc797c81779521275>

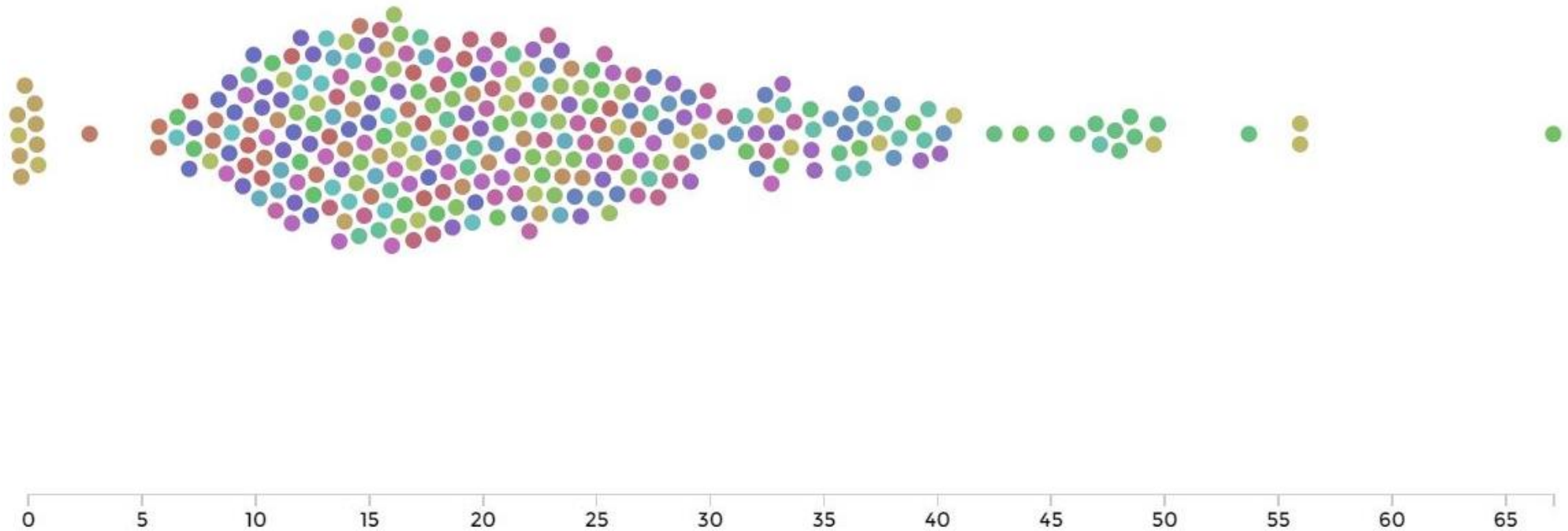
Animated Scatterplot

In this scatterplot, the correlation between different variables analyzing the potato production between 2002 and 2015 in Europe can be analyzed. Hovering over the datapoints, the country can be seen to which the price, yield and/or production belongs.



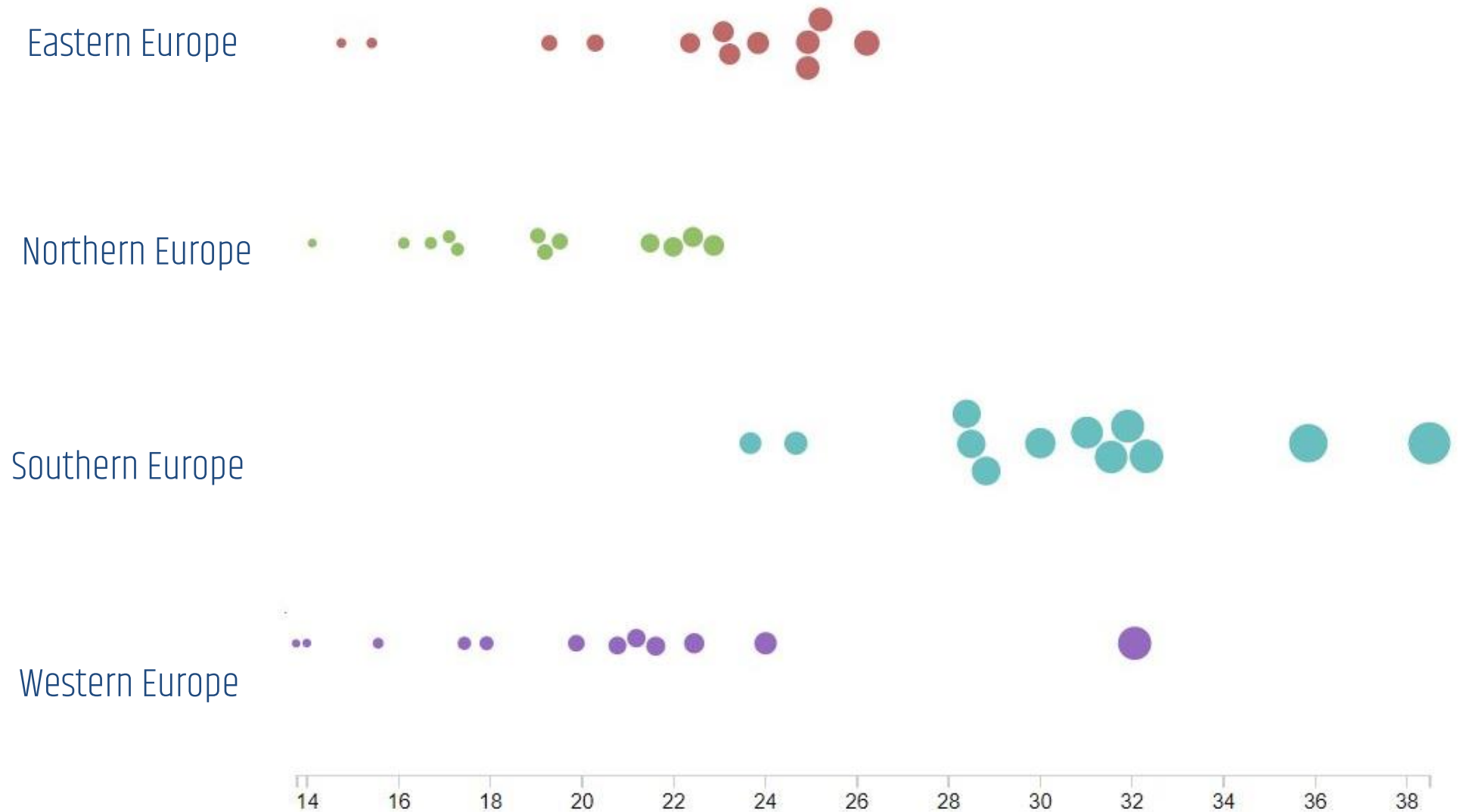
Link to the code: <https://blockbuilder.org/geraldwal/e6497e2fc3b57311c9458cc3f9449fbb>

Beeswarm Graph - Potato price distribution (2004-2015)



Link to the code: <https://blockbuilder.org/francescamanoni/c82697076949ff8787a9cbf5c4c2af07>

Beeswarm Graph per Europe Zone - Potato price distribution (2004-2015)



Link to the code: <https://blockbuilder.org/francescamanoni/6d39d31332ca696ebf3d63dbb21f5b06>

Comments on the beeswarm graphs:

- 1) We use the first beeswarm to see the general distribution of the data, with a special focus on the density of the data points of one variable, price. Each colour represents a different country.
- 2) In the second beeswarm chart, we group the countries in four different groups, in order to see a more specific distribution of the variance. In addition, we added size (visual element) on the variable price. This gives us an extra visual encoding in the beeswarm, in which outliers per region are now easily detected. We realize it is chart chunk to have price as a position and size encoding, but it is clearer and visually the pattern is faster detected over the four zones.



Link to the commented Beeswarm:

<https://blockbuilder.org/geraldwal/2a4ee9272b78302735195ac25f5406d0>