Visualization tools for students

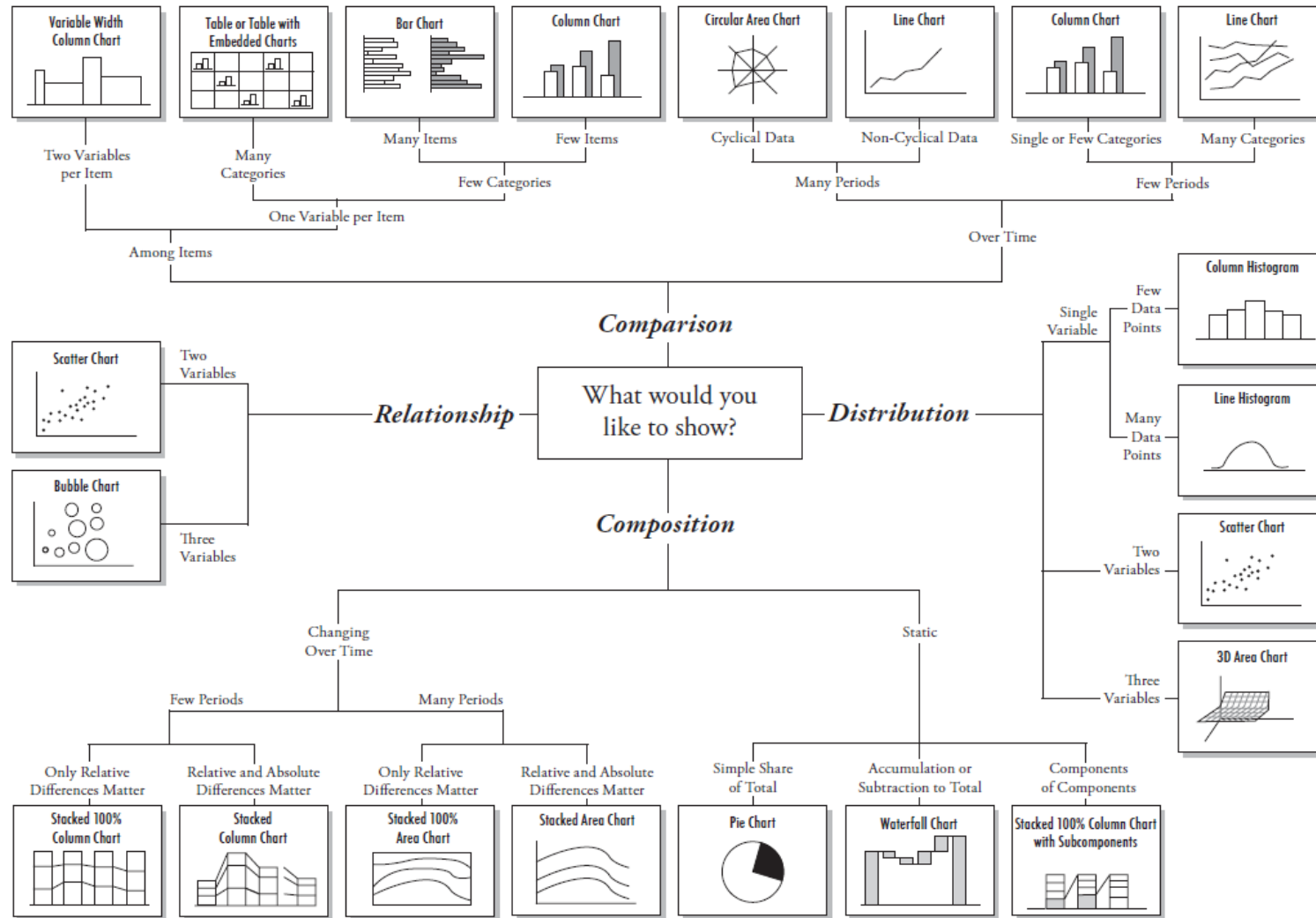Andreas Veglis – professor

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The role of Visualizations in data journalism

- Teaching Data Journalism (2014-today) – graduate and postgraduate level.
- Visualizations → one of the most important part of a data journalism article.
- Visualization theory
- Guides for choosing the appropriate graph type
  - http://www.datavizcatalogue.com/
  - http://guides.library.duke.edu/datavis/vis_types

Chart Suggestions—A Thought-Starter

Variable Width Column Chart

Table or Table with Embedded Charts

Bar Chart
Many Items

Column Chart
Few Items

Circular Area Chart
Cyclical Data

Line Chart
Non-Cyclical Data

Column Chart
Single or Few Categories

Line Chart
Many Categories

Two Variables per Item

Many Categories

Few Categories

One Variable per Item

Many Periods

Few Periods

Among Items

Over Time

Comparison

Column Histogram
Few Data Points

Single Variable

Line Histogram
Many Data Points

Scatter Chart
Two Variables

Relationship

What would you like to show?

Distribution

Scatter Chart
Two Variables

Bubble Chart
Three Variables

Composition

3D Area Chart
Three Variables

Changing Over Time

Static

Few Periods

Many Periods

Simple Share of Total

Accumulation or Subtraction to Total

Components of Components

Only Relative Differences Matter

Relative and Absolute Differences Matter

Only Relative Differences Matter

Relative and Absolute Differences Matter

Stacked 100% Column Chart

Stacked Column Chart

Stacked 100% Area Chart

Stacked Area Chart

Pie Chart

Waterfall Chart

Stacked 100% Column Chart with Subcomponents
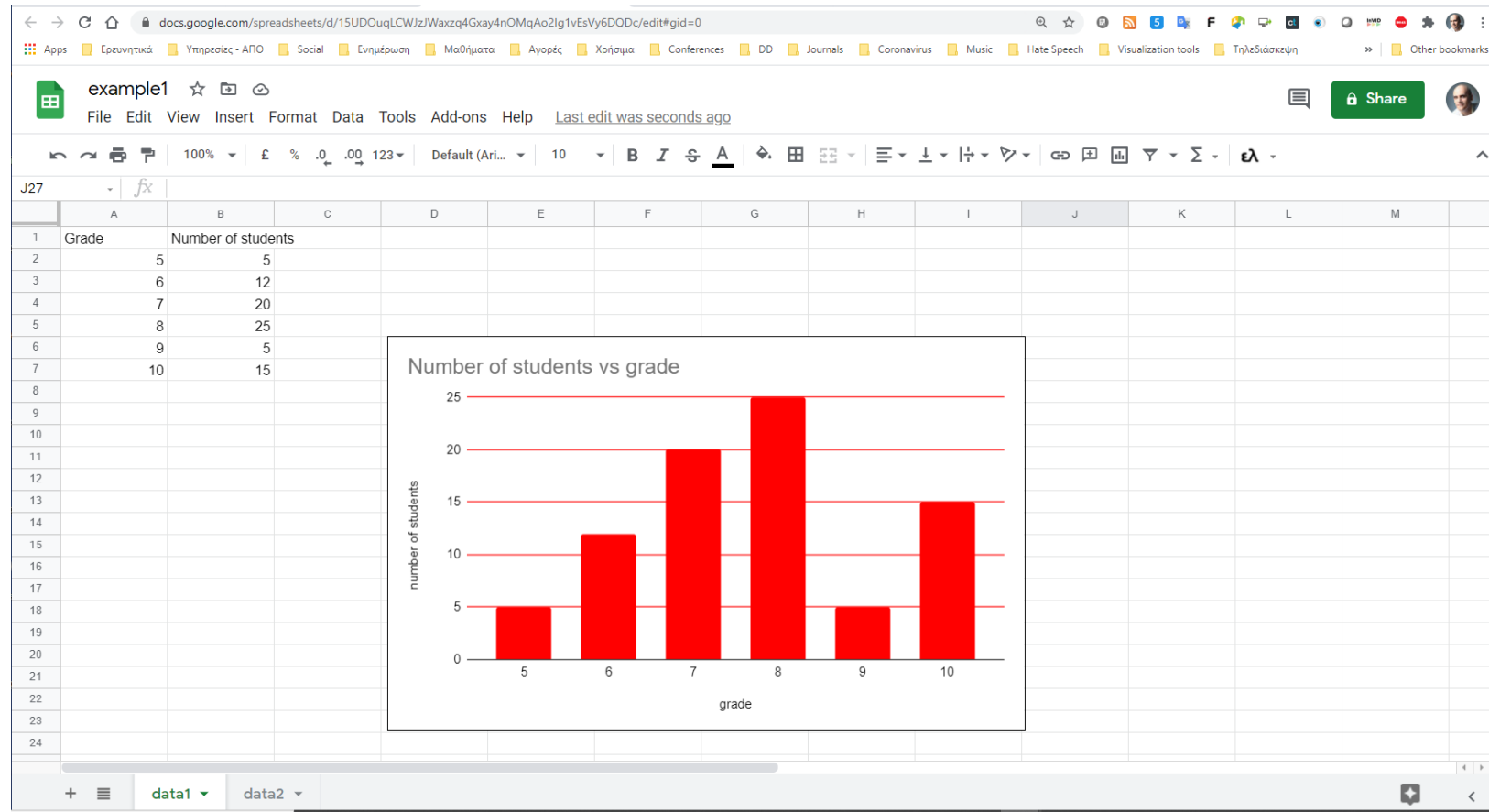
Visualization Tools

Specializing in creating graphs

Able to create more complex visualizations (include both graphs and other visual information
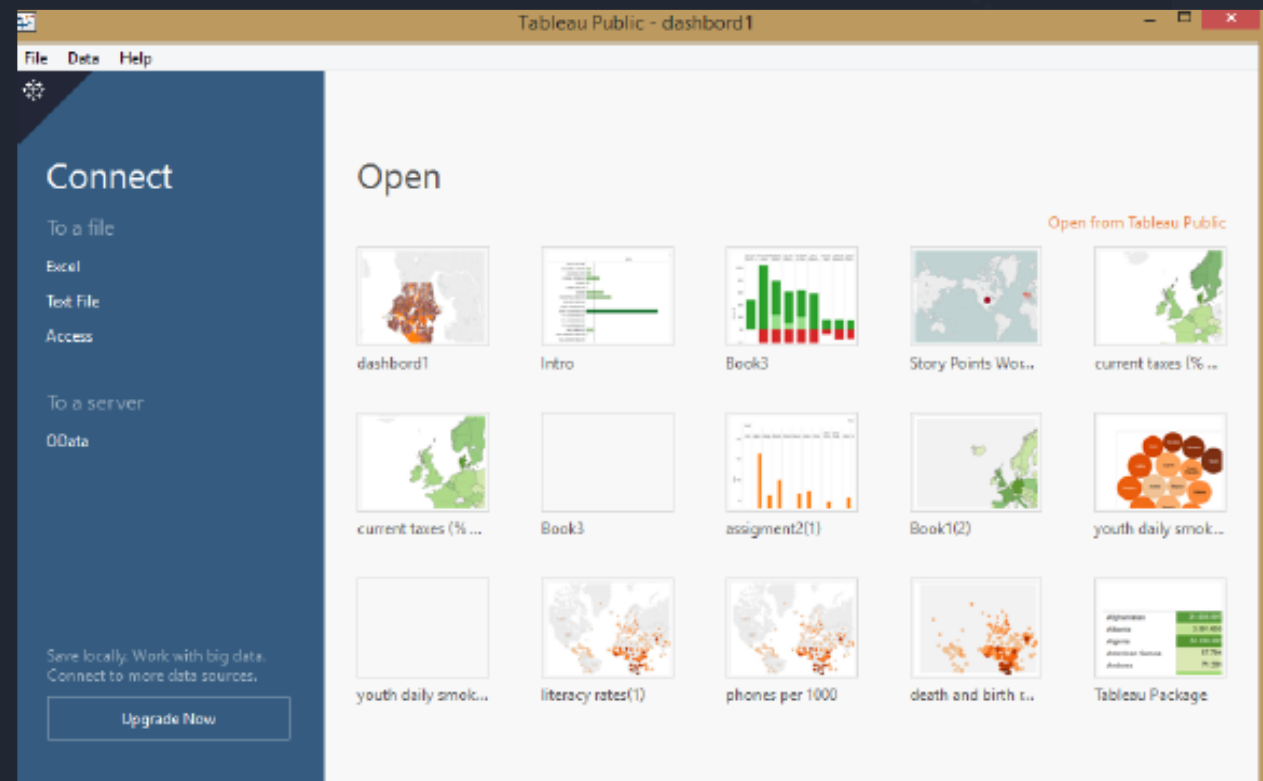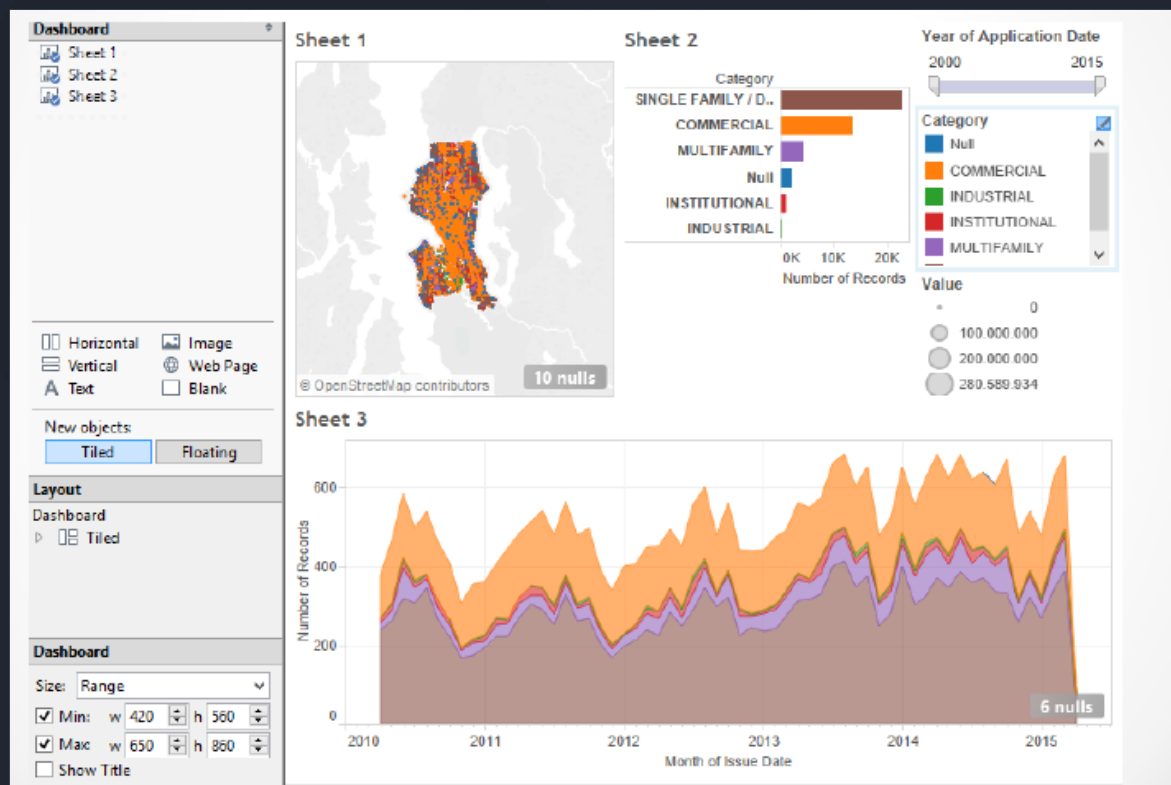
Tools for creating interactive graphs

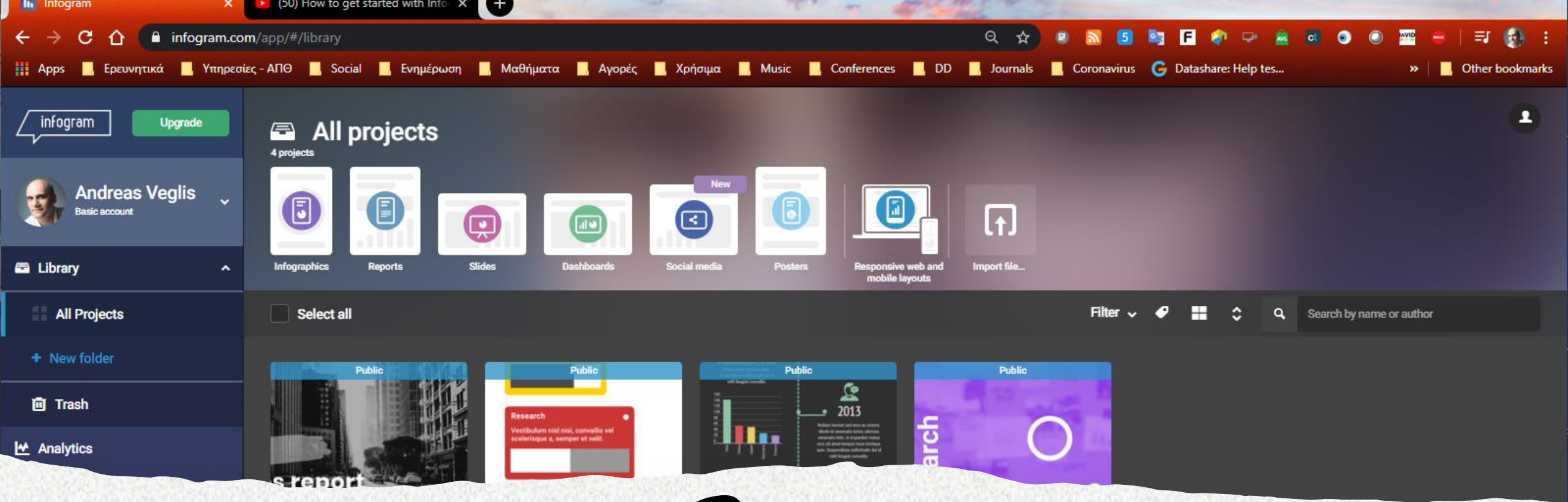free, interface similar to excel, easy publish online, interactive.
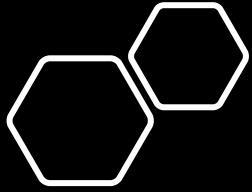
Google Spreadsheet

Tableau

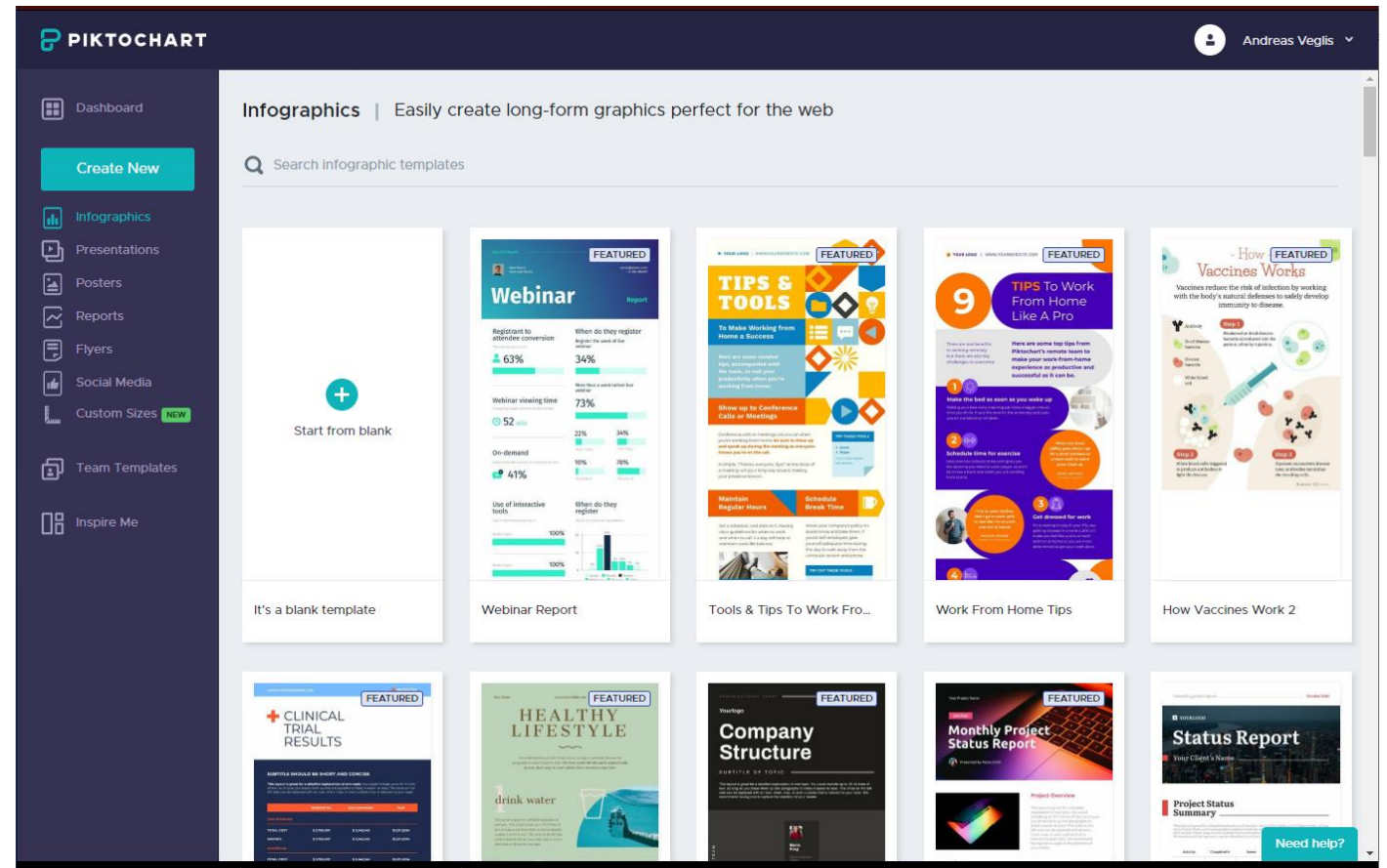- ability to create interactive graphs, free version is sufficient, dashboards - https://www.tableau.com/
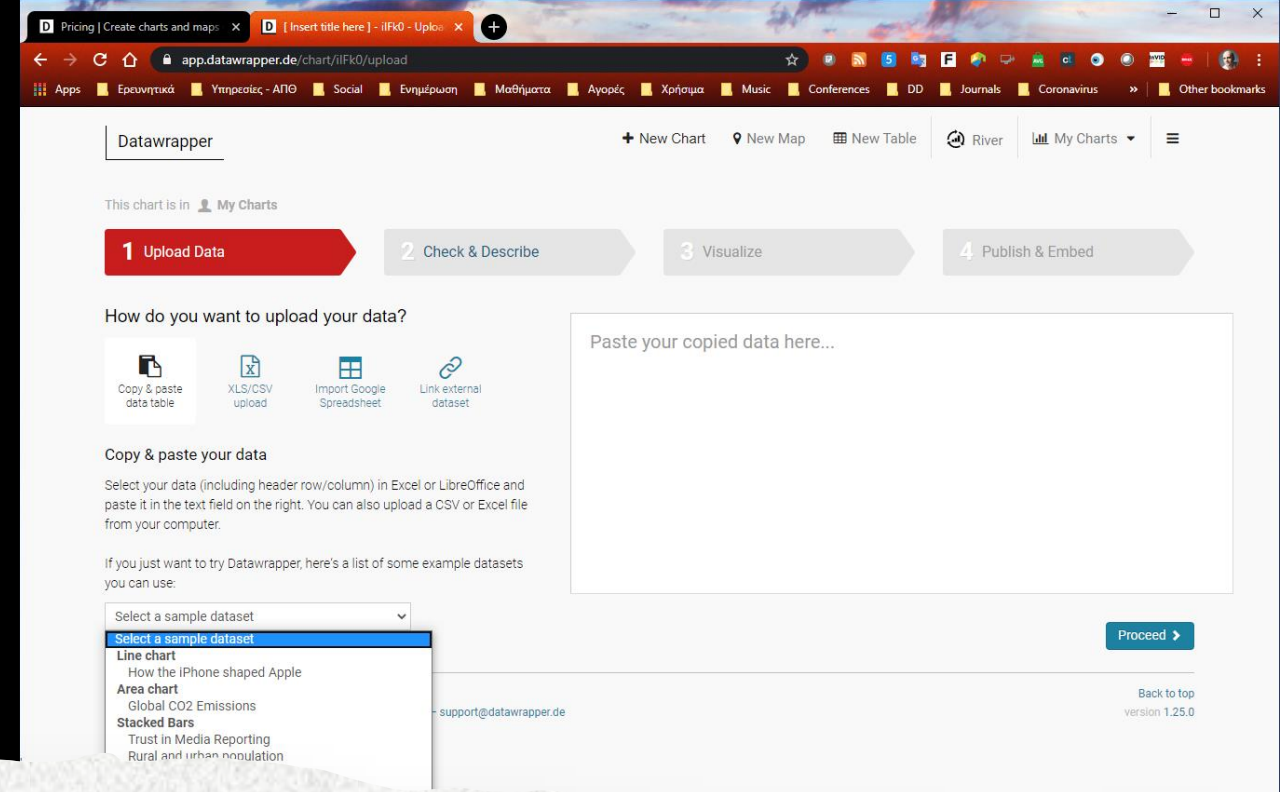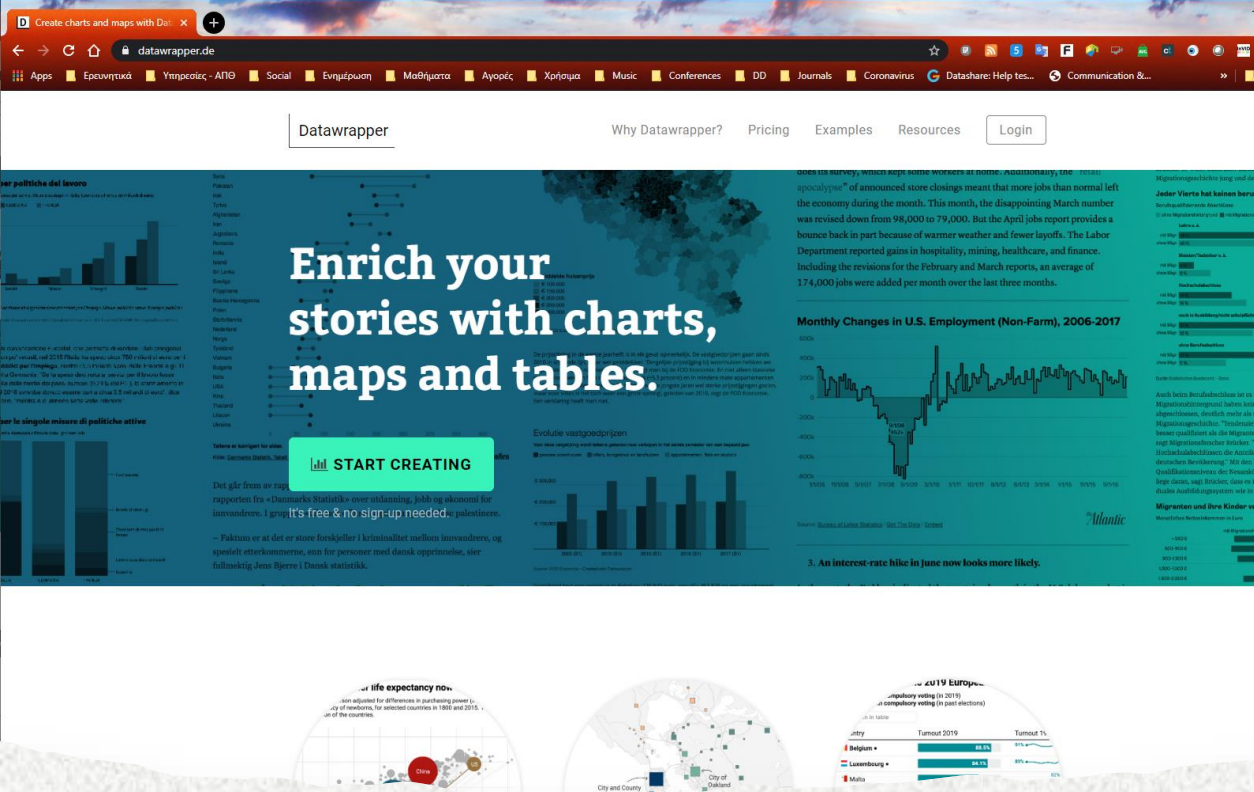
Infogram

- main focus on infographics, template based, free version supports 10 visualizations - https://infogram.com/

- offers templates for different publication types, template driven) - https://piktochart.com/

Datawrapper

- Organized in steps, very good for creating maps - https://www.datawrapper.de/

Thank you for your attention

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