



perception
interaction
Python
information
Data Visualization
Data Acquisition
communication
storytelling
presentation

Data Visualization

Introduction

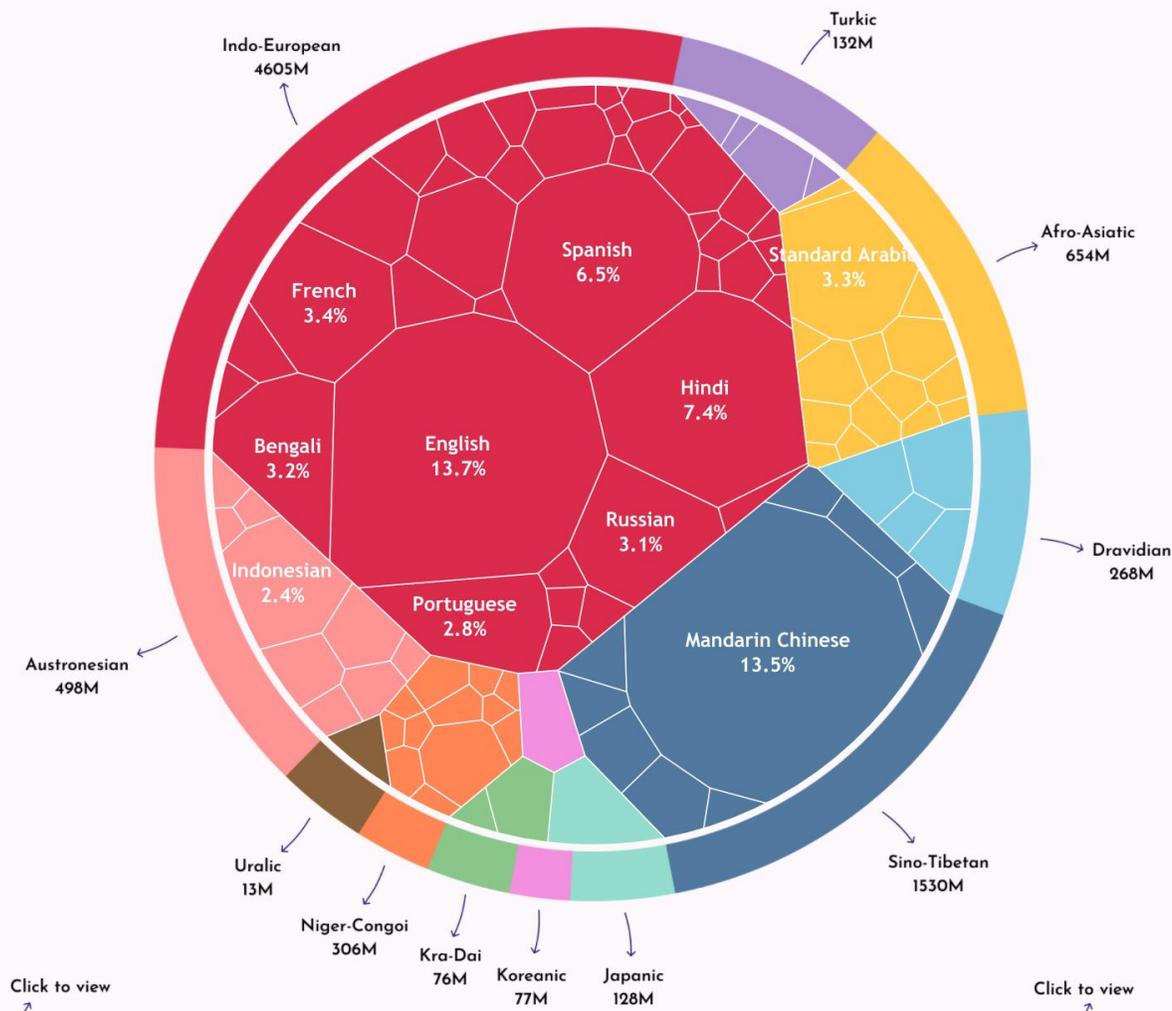
Some practicalities

Our spoken language will be defined according to necessity and preference

100 Most Spoken Languages Around The World

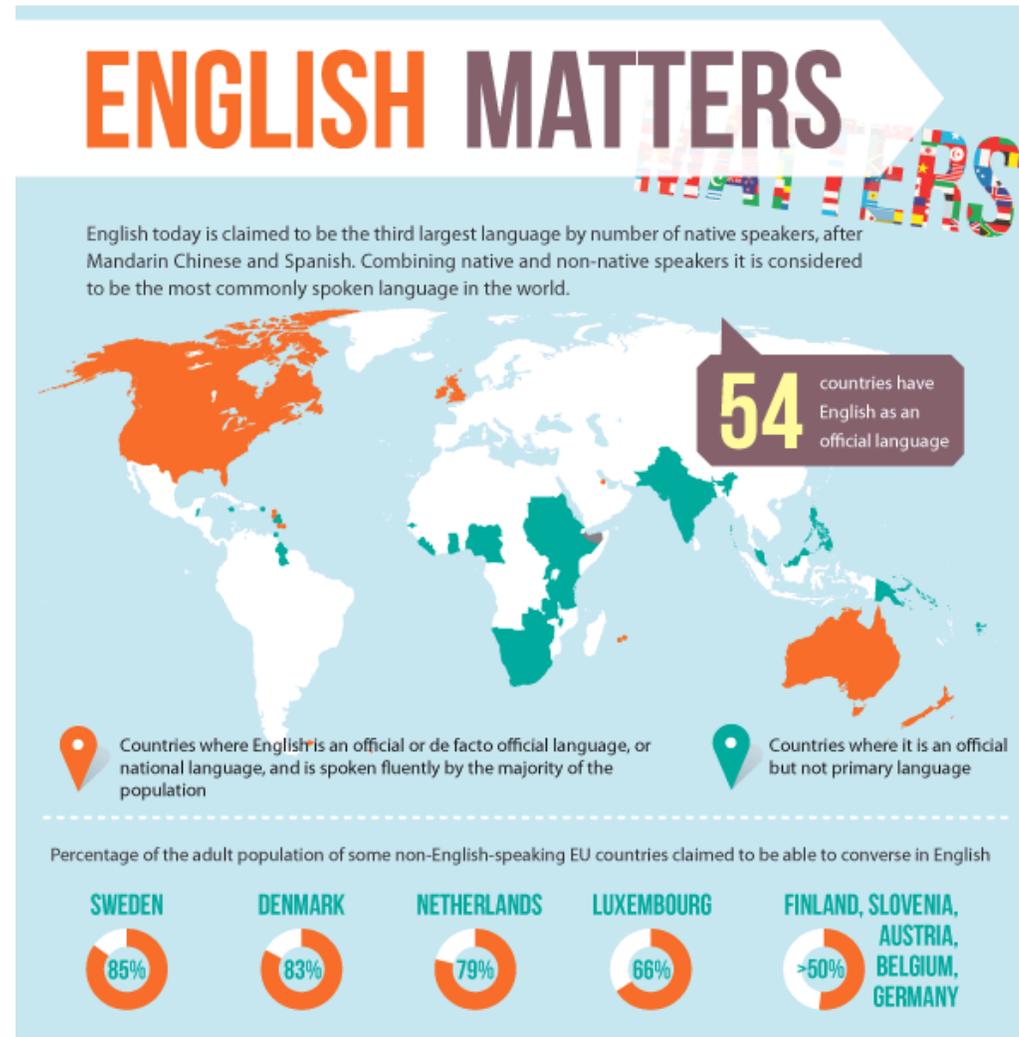
Around the world, there are more than 7,000 regularly spoken vernaculars. Here's the 100 most spoken languages in the world, the number of total speakers for each language, and the origin tree that each language has branched out from.

The data comes from the 22nd edition of Ethnologue, a database covering a majority of the world's population, detailing approximately 7,111 living languages in existence today. The data was published on February 15, 2020.



Some practicalities

We use the English language



Some practicalities

- E-mail: mroussou@di.uoa.gr
- Class day, time
 - every Wednesday, 18:00 – 21:00
- Presence sheet*

(*) attendance is important, but not mandatory. Part of your grade will be based on your in-class / e-class participation

Round-the-room introductions

- 2-minute introduction about you:
 - studies/background
 - goals and expectations from this course

Course structure

13 weeks of:

- Lectures
- Individual assignments
~3-4 on a variety of tools and methods
- Group project (in groups of 2-3)
to create an interactive visualization of a dataset (of your choice),
present it live, and document it on video

Course assessment

- **Individual effort ~40%**
 - **In-class and e-class participation: ~10%**

Your contributions to in-class and online discussions will be a significant portion of your class participation grade.
 - **Individual exercises & assignments: ~30%**
- **Group Project ~60%**
 - **Design & implementation: ~50%**
 - **Final Presentation & documentation: ~10%**

Course style

- **Interactive & participatory**: active participation is a must!
- **By example**: real-world case studies
- **Up-to-date**: constantly abreast of new developments
- **Critique**: other work and our own
- **Research**: be prepared to spend significant amounts of time researching examples and reading papers

Course announcements, material, assignments

- e-class - <https://eclass.uoa.gr/courses/DI453/>

The screenshot shows the Eclass interface for the course 'Οπτικοποίηση Δεδομένων - Data Visualization (M126)' by Μαρία Ρούσσου. The left sidebar contains the university logo and navigation options: Course Options, Agenda, Announcements, Assignments, Documents, Forum, Groups, Links, Messages, and Questionnaires. The main content area features a 'Description' section with a visualization titled 'Publications of Research Labs per year'. This visualization is a circular treemap where the inner blue area represents the total number of publications, and the outer rings of orange and green represent sub-categories. A legend below the treemap shows 'Number of dit publications per year' and 'year'. To the right of the treemap is a grid of various chart types (line, bar, pie, scatter, etc.) and a 'More' button. The text to the right of the charts explains that data and information visualization is an emerging field of data science that deals with the analysis, modeling and display of data, especially big data, with the aim of effective communication and understanding by their target audience. This course will cover: the characteristics of the human brain and visual perception, imaging methods (eg line / bar / pie / area charts & graphs, scatter / bubble / polar / funnel plots, treemaps, etc.) for the visual representation of different categories of data (eg hierarchical, spatial, temporal, geographical, multidimensional, networks, etc.), interactive visualization techniques, e.g. with data conversion (Dynamic Queries, Direct Manipulation, Details-on-Demand, etc.), with visual mapping (Dataflow, Pivot tables, etc.), with facet conversion (Animate Shift of Focus, Overview & detail, Semantic Zoom, Magic lens, etc.), communication issues and the creation of "telling stories with data" that effectively convey a message or information, as well as

Below the description, there is a 'Calendar' section showing 'February 2021' and an 'Announcements' section with the text 'Έναρξη μαθημάτων M126 Οπτικοποίηση Δεδομένων και πληροφορίες...'. The top right of the page shows a user profile for 'mariar' and a home icon.

Course agenda

- e-class - <https://eclass.uoa.gr/courses/DI453/> > Agenda

Portfolio / Οπτικοποίηση Δεδομένων - Data Visualization / Agenda

Οπτικοποίηση Δεδομένων - Data Visualization (M126)

Agenda

Calendar view

July 2022

[13] Final Group project presentations - Παρουσιάσεις εργασιών (Duration: 3:00 hours)
Friday July 1, 2022 (hour: 18:00)

May 2022

[12] Data Viz tools (D3) (Duration: 3:00 hours)
Wednesday May 25, 2022 (hour: 18:00)

[11] Group project proposal presentations (Duration: 3:00 hours)
Wednesday May 18, 2022 (hour: 18:00)

--- [1] Data viz Group project proposal
Tuesday May 17, 2022 (hour: 23:55)

[10] Data Viz tools (R - shiny & D3) (Duration: 3:00 hours)
Wednesday May 11, 2022 (hour: 18:00)

[09] Data Viz tools (R - RStudio - ggplot2 - plotly - shiny) (Duration: 3:00 hours)
Wednesday May 4, 2022 (hour: 18:00)

April 2022

[08] Interaction (cont'd) & assignment #2 presentations (Duration: 3:00 hours)
Wednesday April 13, 2022 (hour: 18:00)

--- [1] assignment #2 - dataset visualization using Tableau
Sunday April 10, 2022 (hour: 23:55)

[07] VR Interaction (Duration: 3:00 hours)
Wednesday April 6, 2022 (hour: 18:00)

March 2022

[06] Representation (cont'd) (Duration: 3:00 hours)
Wednesday March 30, 2022 (hour: 18:00)

[05] Representation (intro) & Tableau seminar (Duration: 3:00 hours)
Wednesday March 23, 2022 (hour: 18:00)

--- [1] assignment #1 - build an HTML, CSS website
Sunday March 20, 2022 (hour: 23:55)

[04] Perception - part 2 (Duration: 3:00 hours)
Wednesday March 16, 2022 (hour: 18:00)

[03] Perception - part 1 (Duration: 3:00 hours)
Wednesday March 9, 2022 (hour: 18:00)

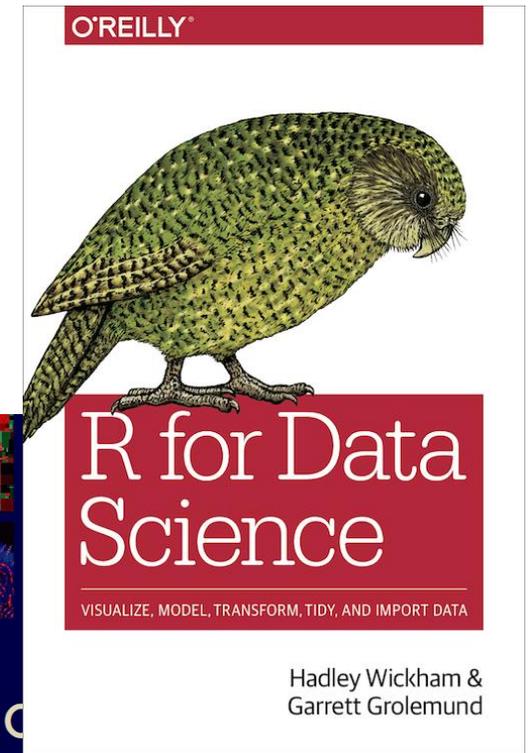
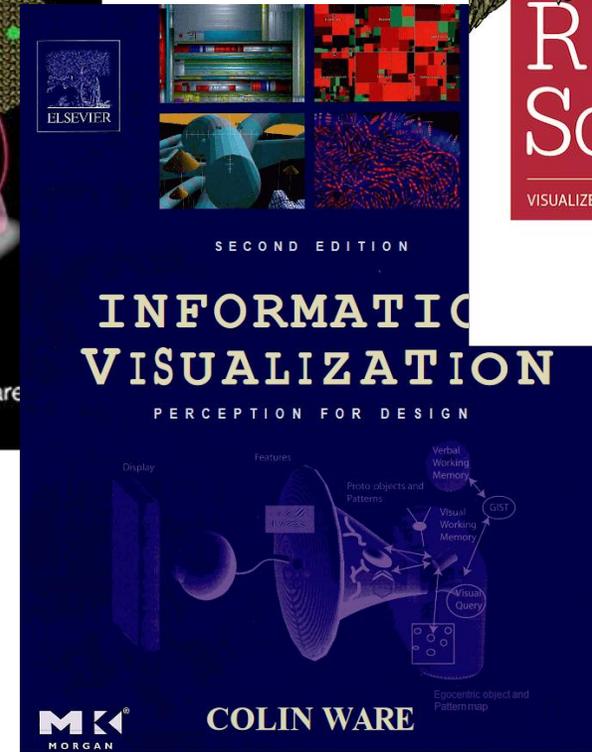
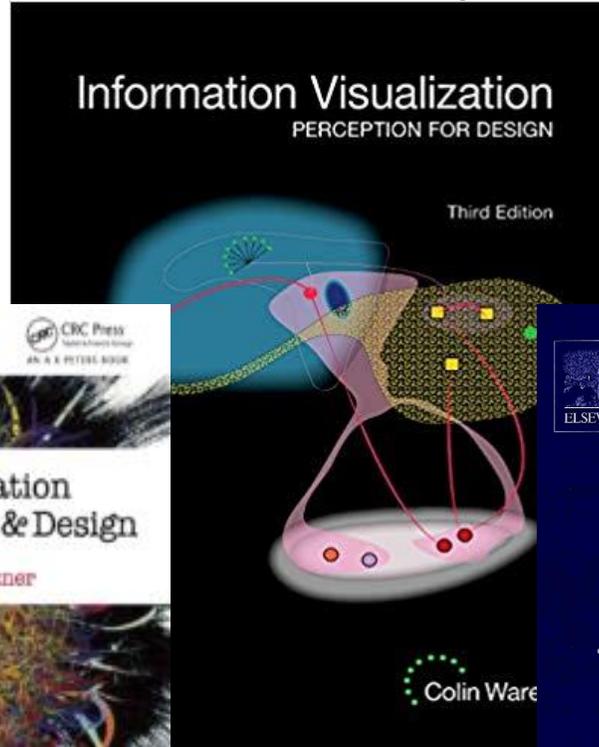
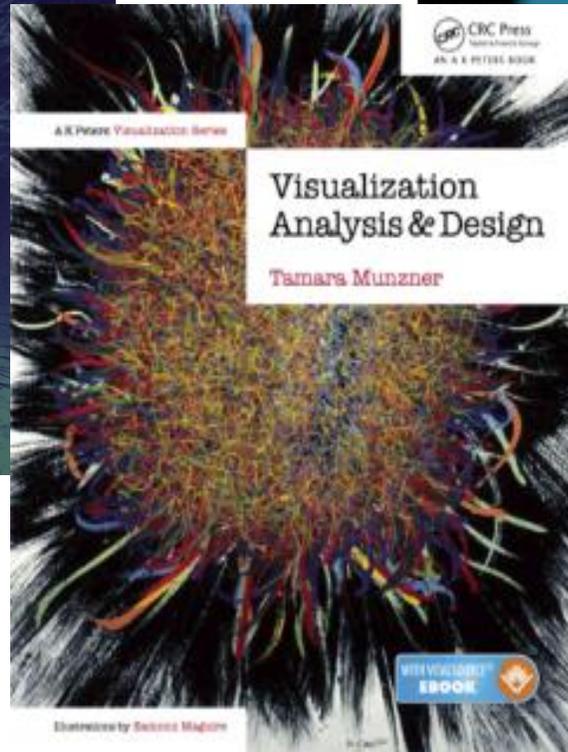
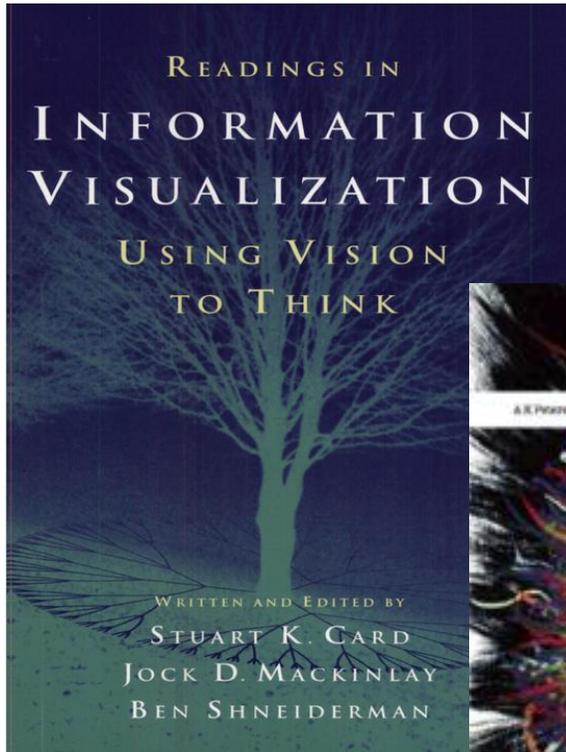
[02] What is Visualization and Why (Duration: 3:00 hours)

Communication

- Discord: <https://tinyurl.com/m126-discord-2026>

Course references

- No obligatory course book, but many to draw from

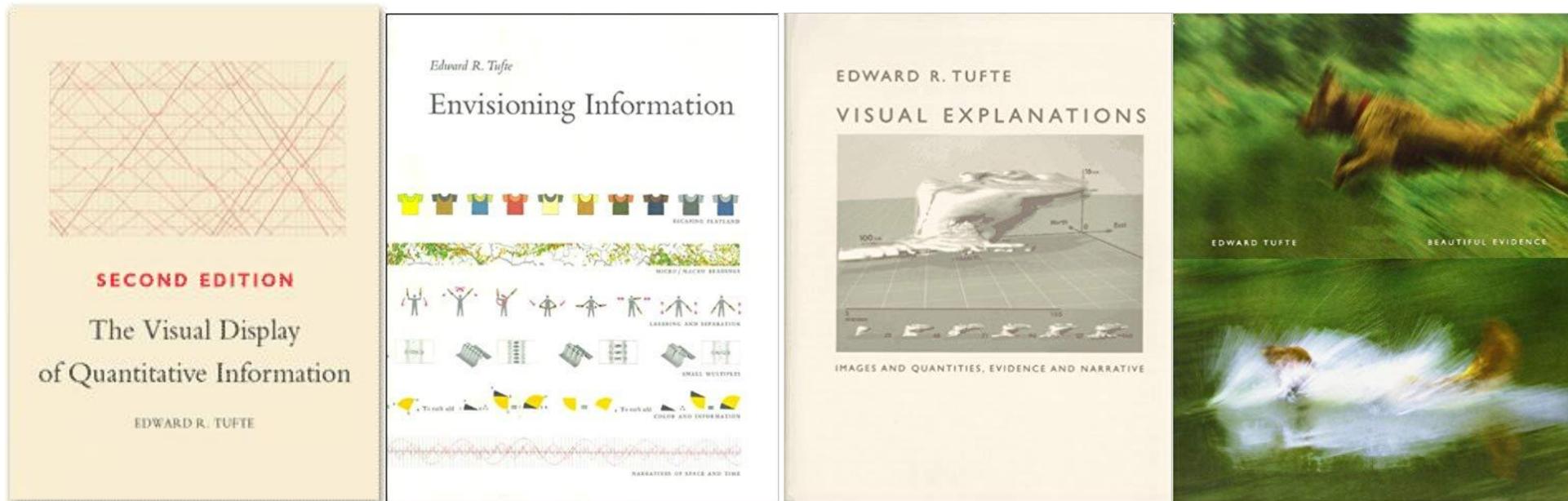


References (books)

- Bederson, B. B., & Shneiderman, B. (2003). *The Craft of Information Visualization: Readings and Reflections*. Morgan Kaufmann Publishers.
- Card, S. K., Mackinlay, J., & Shneiderman, B. (1999). *Readings in Information Visualization: Using Vision to Think*. (S. K. Card, J. Mackinlay, & B. Shneiderman, Eds.). Morgan Kaufmann.
- Munzner, T. (2014). *Visualization Analysis and Design*. CRC Press, A. K. Peters Visualization Series. Ch.1: What's Vis, and Why Do It?
- Murray, S. (2017). *Interactive Data Visualization for the Web* (2nd ed.). O'Reilly Media. <https://alignedleft.com/tutorials/d3/>
- Spence, R. (2014). *Information Visualization: An Introduction* (3rd Editio). Springer International Publishing Switzerland.
- Ware, C. (2013). *Information Visualization: Perception for Design* (3rd Edition). Morgan Kaufmann.
- Grolemund, G., & Wickham, H. (2017). *R for Data Science*. O'Reilly Media. Retrieved from <https://r4ds.had.co.nz/>

References (books)

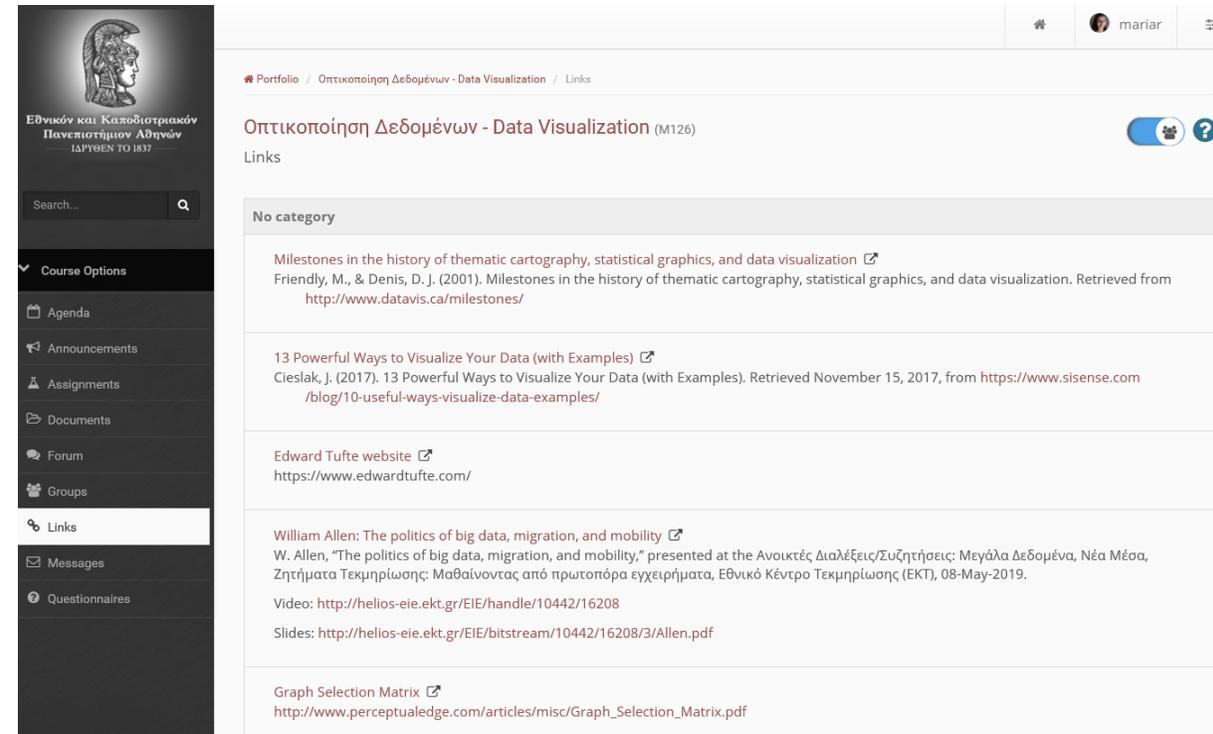
- Tufte, E. R. (2001). *The Visual Display of Quantitative Information* (2nd ed.). Graphics Press.
- Tufte, E. R. (1990). *Envisioning Information* (4th ed.). Graphics Press.
- Tufte, E. R. (1997). *Visual Explanations: Images and Quantities, Evidence and Narrative*. Graphics Press.
- Tufte, E. R. (2006). *Beautiful Evidence* (1st ed.). Graphics Press.



<http://www.edwardtufte.com/tufte/>

Other resources

- Websites with examples (e.g., [Flowing Data](#))
- Data / datasets (e.g., [Kaggle](#))
- Videos (e.g., Hans Rosling's talks)
- Conferences (e.g., [IEEE Vis](#))
- Tools (e.g., Tableau)



The image shows a screenshot of a course website. On the left is a dark sidebar menu with the following items: Search..., Course Options, Agenda, Announcements, Assignments, Documents, Forum, Groups, Links (highlighted), Messages, and Questionnaires. The main content area is titled "Οπτικοποίηση Δεδομένων - Data Visualization (M126)" and contains a list of links under the heading "No category". The links are:

- Milestones in the history of thematic cartography, statistical graphics, and data visualization [↗](#)
Friendly, M., & Denis, D. J. (2001). Milestones in the history of thematic cartography, statistical graphics, and data visualization. Retrieved from <http://www.datavis.ca/milestones/>
- 13 Powerful Ways to Visualize Your Data (with Examples) [↗](#)
Cieslak, J. (2017). 13 Powerful Ways to Visualize Your Data (with Examples). Retrieved November 15, 2017, from <https://www.sisense.com/blog/10-useful-ways-visualize-data-examples/>
- Edward Tufte website [↗](#)
<https://www.edwardtufte.com/>
- William Allen: The politics of big data, migration, and mobility [↗](#)
W. Allen, "The politics of big data, migration, and mobility," presented at the Ανοικτές Διαλέξεις/Συζητήσεις: Μεγάλα Δεδομένα, Νέα Μέσα, Ζητήματα Τεκμηρίωσης: Μαθαίνοντας από πρωτοπόρα εγχειρήματα, Εθνικό Κέντρο Τεκμηρίωσης (ΕΚΤ), 08-May-2019.
Video: <http://helios-eie.ekt.gr/EIE/handle/10442/16208>
Slides: <http://helios-eie.ekt.gr/EIE/bitstream/10442/16208/3/Allen.pdf>
- Graph Selection Matrix [↗](#)
http://www.perceptualedge.com/articles/misc/Graph_Selection_Matrix.pdf

Course material - Get organized

- <https://www.zotero.org/>, <https://www.mendeley.com/>

zotero

Groups

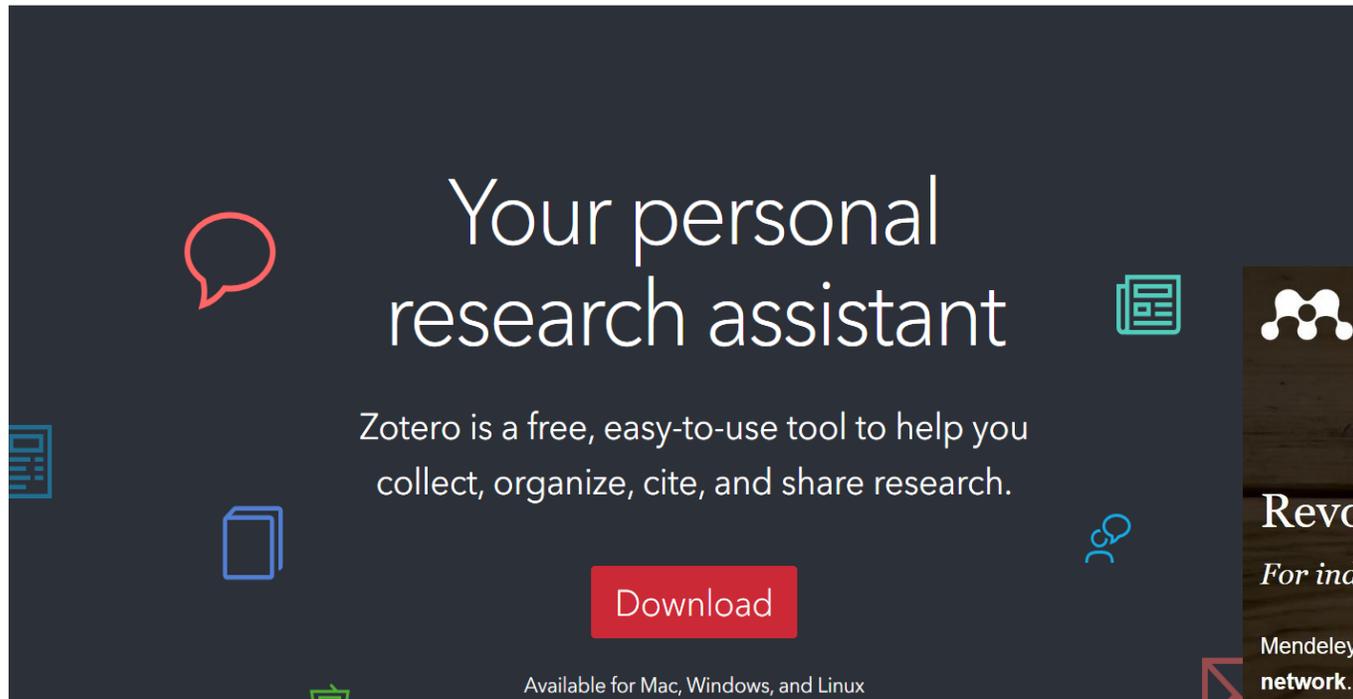
Documentation

Forums

Get Involved

Log In

Upgrade Storage



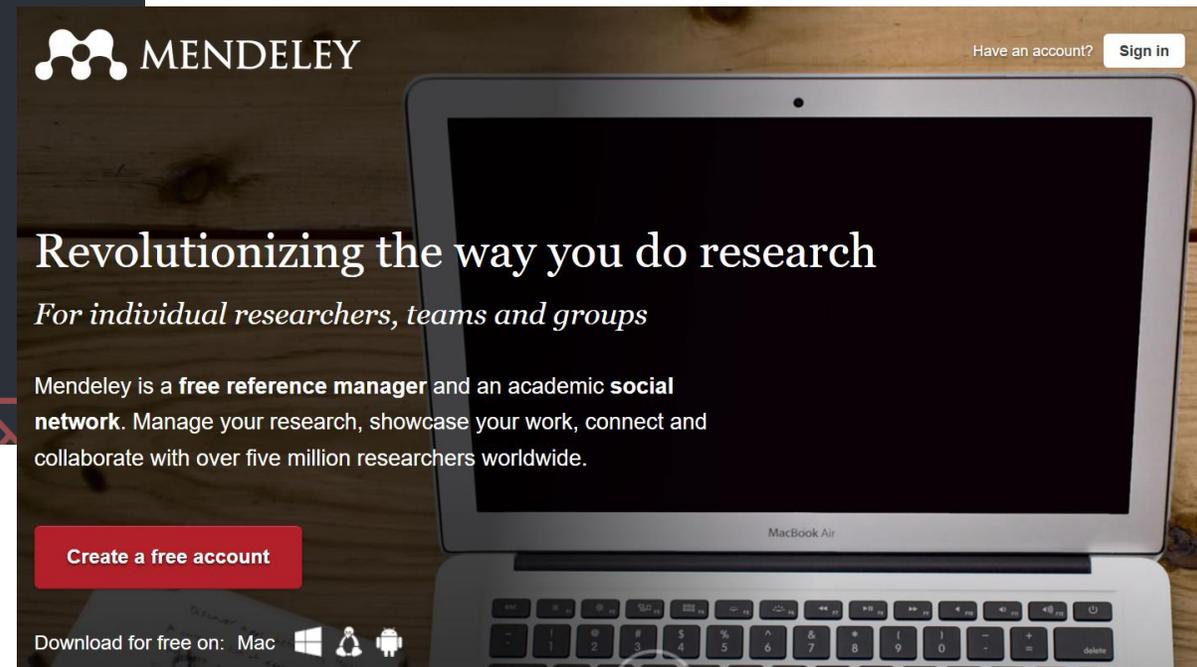
Your personal research assistant

Zotero is a free, easy-to-use tool to help you collect, organize, cite, and share research.

[Download](#)

Available for Mac, Windows, and Linux

The banner features a dark blue background with white text. On the left, there is a red speech bubble icon and a blue document icon. On the right, there is a blue document icon and a blue magnifying glass icon. At the bottom, there is a green folder icon and a red arrow icon.



MENDELEY

Have an account? [Sign in](#)

Revolutionizing the way you do research

For individual researchers, teams and groups

Mendeley is a **free reference manager** and an academic **social network**. Manage your research, showcase your work, connect and collaborate with over five million researchers worldwide.

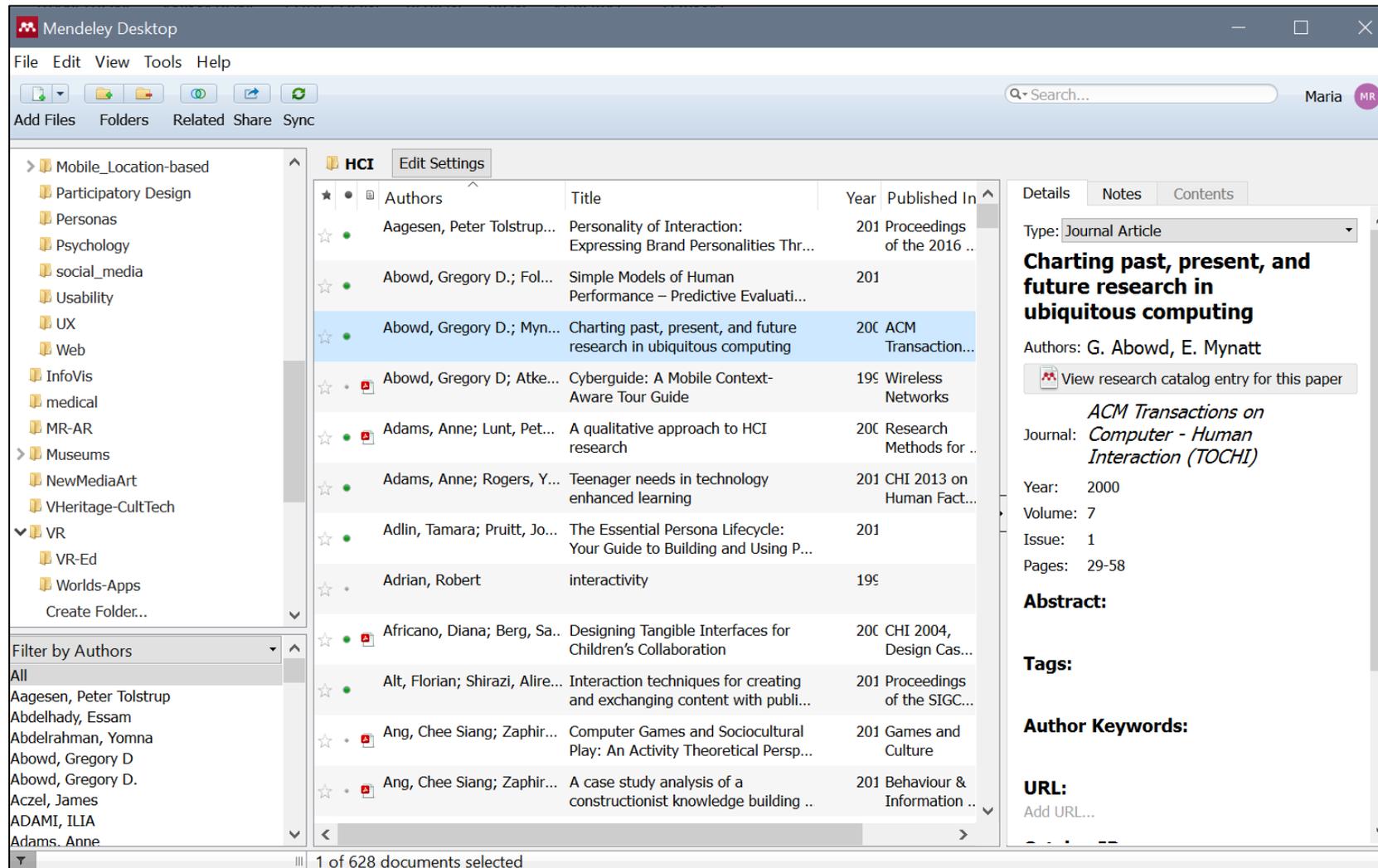
[Create a free account](#)

Download for free on: Mac   

The banner features a dark background with a laptop in the foreground. The laptop screen displays the text "Revolutionizing the way you do research". The Mendeley logo is in the top left, and a "Sign in" button is in the top right. A "Create a free account" button is in the bottom left, and "Download for free on:" with icons for Mac, Windows, Linux, and Android is in the bottom left.

Course material - Get organized

■ Get organized: example Mendeley Desktop



Course content

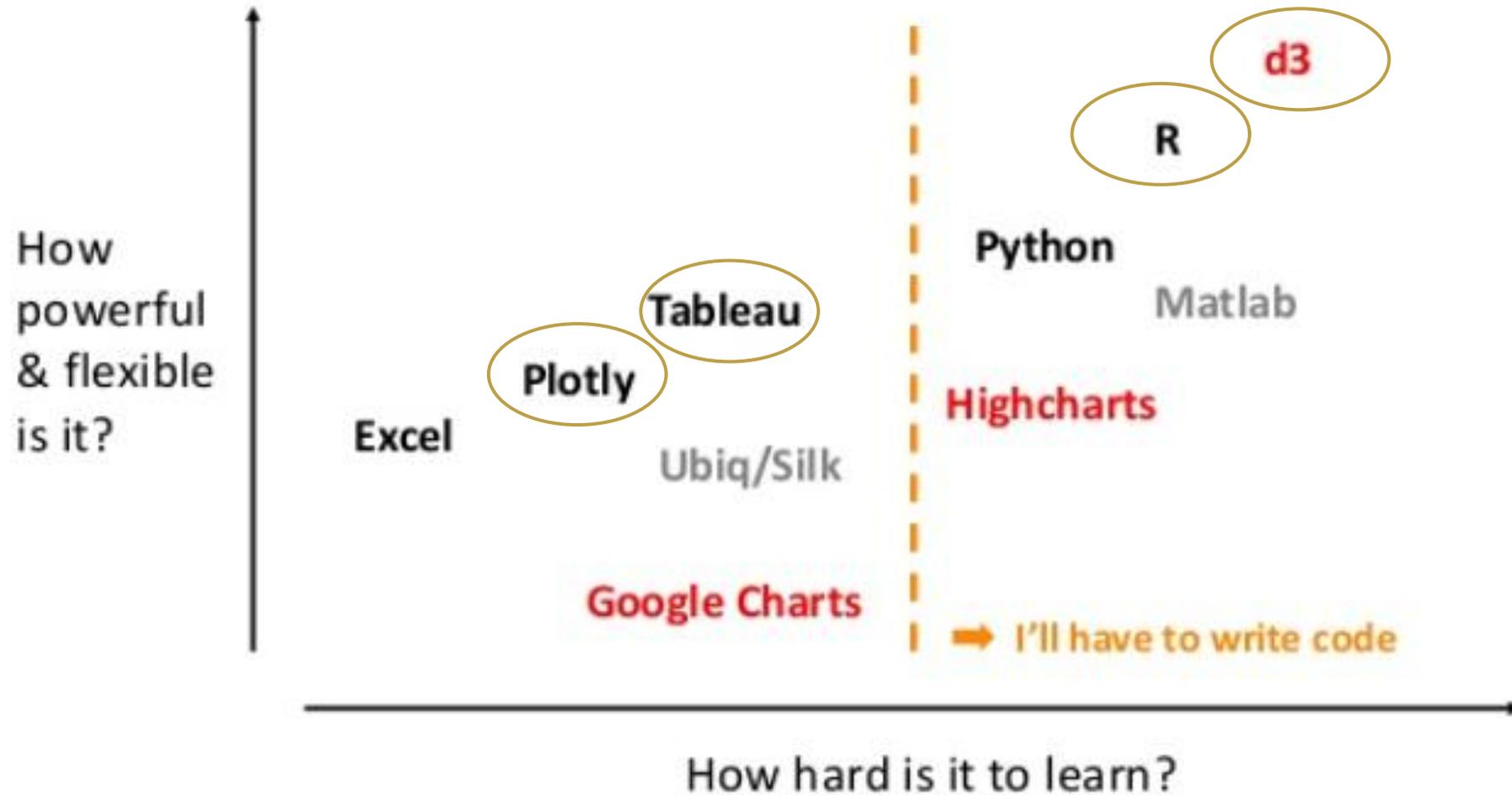
- **Introduction & definitions**
 - Getting-to-know-us and practicalities
 - What is DataViz and why do it
 - Examples
- **Perception**
 - visual channel characteristics, color, size, shape, spatial layouts, etc., how human perception relates to creating effective data visualizations
- **DataViz Principles – Representation**
 - Raw data & data types, representation techniques (charts, lines, etc.)
- **Presentation**
 - Scrolling, flipping, context and detail, focus, zooming, etc.
- **Interaction**
 - Dynamic queries, Direct walk, Details-on-demand, Brushing, etc.

Course content

- Visualization Tools
 - (~~Excel~~)
 - Tableau
 - R (using tidyverse which includes ggplot, Shiny...)
 - D3 (via Observable)
 - (~~Python~~)

Course content

- Visualization Tools



Course content

- What is data visualization?
- What are the main purposes of data visualization?
- What are the major advantages of data visualization?
- What are the criteria of good visualizations?
- What kind of strengths of human visual system we should exploit for data visualization?
- What kind of weaknesses of human visual system we should avoid for data visualization?

What this course is NOT about

- It is not a graphic design course
- It is not a course to learn tools

but

- Exposure to a number of visual design concepts & tools
- Support by experts

Assignments

- ~Week **3**: individual assignment (Html5, CSS,...)
- ~Week **7**: individual assignment (Tableau)
- ~Week **9**: individual assignment (*tbd*, R)
- ~Week **11**: individual assignment (*tbd*, D3)

- ~Week **13**: Final Project Presentation
- ~Week **16**: Project documentation

(see eClass agenda for due dates)

Group Project

- To visualize effectively a dataset
- Main phases of work:
 - Conceptualization - design
 - Implementation
 - Presentation (& documentation)
- All previous group projects:

<https://tinyurl.com/m126-projects>

Final Group Projects 2023-2024

- 2024-2025 Group projects <https://tinyurl.com/m126-2025>

1. Visualizing Quantitative Country Clusters

<https://geoleven.github.io/datavizwinteam/alt/>

2. The true cost of Factory Farming

<https://vis.sftportal.eu/>

3. Global Cybersecurity Threats

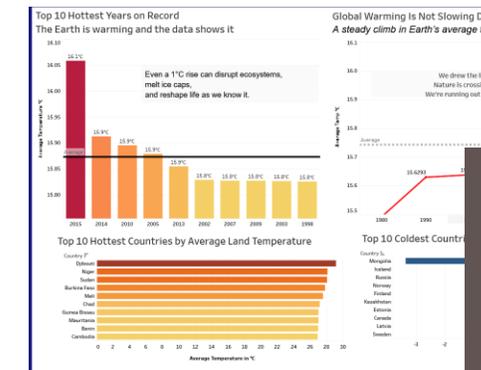
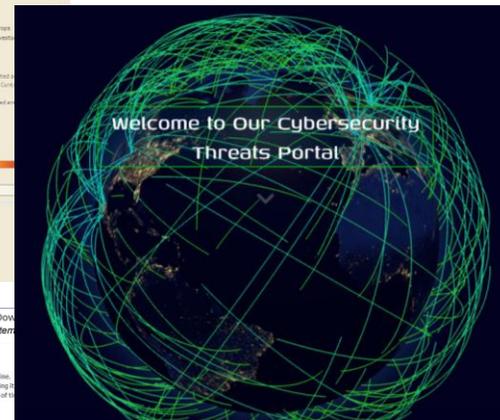
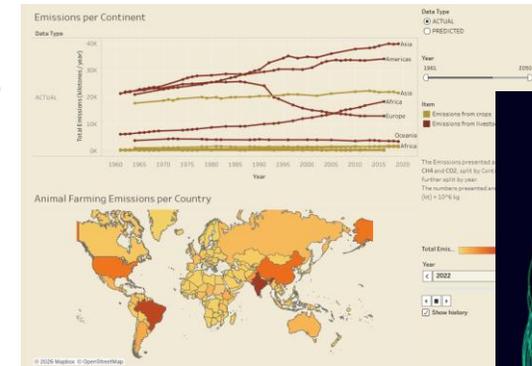
<https://panagiotagyft.github.io/cyber-threats/>

4. Climate Change

<https://dataviz540.wixsite.com/climate-change>

5. Exploring HPV and Cervical Cancer Trends Worldwide and in the EU

<https://sites.google.com/view/hpvandcervicalcancer/home>



Final Group Projects 2023-2024

■ 2023-2024 Group projects <https://t.ly/4b3G3>

1. Visualizing Spotify Music Streaming Trends

<https://spotifyviz.vercel.app/>



2. MobiliCity

<https://eirkyr.github.io/MobiliCity/>



3. «Are we done with Airbnb yet? Alternative: Rents VS Airbnb, FIGHT!»

<https://m126-visualizations-project.000webhostapp.com/M126-Template/>

4. Visualizing the Environmental Impact of Electric Vehicles

<https://wheelygoodair.ovh/>

5. Visualizing Economic Indicators for Global Education (Connecting Education & Finance)

<https://evankos.netlify.app/>

6. Visualizing Athens Airbnb Trends Insights for Hosts and Travelers

<https://sophiaross26.github.io/Airbnb-project/>

7. Visualising Greece's Demographic Downturn

<https://kostantinostheo.github.io/vizginius/>

8. Αμβλώσεις: Οπτικοποίηση της έρευνας και των στατιστικών στοιχείων για τις αμβλώσεις

<https://nikpnevmatikos.github.io/Data-Visualization-Abortion-Laws/>

9. Wanna EU Relocate?

<https://nikoletos-k.github.io/Wanna-EU-Relocate-DataViz-2024/>

10. Visualizing the Humanitarian Crisis in Palestine

<https://zazos.github.io/DataViz-website>



11. Talk is cheap; show me the code

<https://jimtsiob.github.io/data-viz-comp-prog/>

Final Group Projects 2022-2023

2022-2023 Group projects

<https://tinyurl.com/m126-2023>



Home Our Team Dataset Visualization References

How Personality, Health Problems and Height affect dog's Longevity



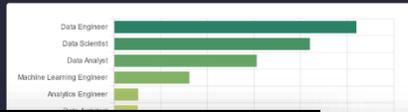
Visualizations | About | Credits

The Data Science Journey Roadmap: Salaries & Insights

Data Science Positions Popularity

The chart displays the top 12 positions in terms of popularity within the data industry and provides a valuable overview of the most sought-after roles.

It is worth noting that data-oriented positions, such as Data Engineer, Data Scientist and Data Analyst are the most prevalent.



Data Visualization, 2022-2023

Department of Informatics & Telecommunications, NKUA



'Global Happiness Atlas: Exploring the Nexus of Peace, Education, and Wealth'

Presentation

References

Team mem

What is Happiness and how can it be measured? Happiness is subject to debate on usage and meaning. People have been trying to measure happiness for centuries. English utilitarian philosopher Jeremy Bentham proposed that as happiness was the primary goal of humans it should be measured as a way of determining how well a government was performing. Since 2012, a World Happiness Report has been published. Happiness is evaluated, as in "How happy are you with your life as a whole?"

M126 - Οπτικοποίηση Δεδομένων

Ομαδική Εργασία για το εαρινό εξάμηνο του έτους 2022-2023



The Nobel Prize (1901 - 2016) How difficult is to win one? A comprehensive investigation

Home Dashboard Presentation About Credits

Welcome to our website! Through our investigation we delve into the realm of the Nobel Prize—a symbol of unparalleled prestige in the world of scientific achievement. Since its inception, the Nobel Prize has remained the pinnacle of recognition, fueling the aspirations and dreams of countless scientists across the globe. But how easy is it for someone to win this coveted prize? Is it merely a matter of luck, or does it require an extraordinary

ΑΡΧΗ | ΟΠΤΙΚΟΠΟΙΗΣΕΙΣ | ΣΥΜΠΕΡΑΣΜΑΤΑ ΚΑΙ ΒΙΝΤΕΟ | ΠΙΛΙΤΣ

Κίνδυνος Φτώχειας & Κοινωνικού Αποκλεισμού στην Ελλάδα

Οπτικοποίηση Δεδομένων M126

Start

Project Movies Visualization

Are you a movie enthusiast? This is the perfect site for you!

中 外 中

Language Learning Difficulty

Brief information

How long does it take to learn a foreign language? Unfortunately, providing a precise answer to this question is impossible due to various factors that influence language learning. These factors include an individual's learning ability, motivation, learning environment, intensity of instruction, and prior experience with foreign languages. Additionally, the similarity between the target language and the learner's native language or previously acquired languages plays a role. Lastly, the desired level of proficiency also affects the time required for mastery. Furthermore, it is important to note that proficiency in a language is not a one-size-fits-all concept. It is typically evaluated based on four essential skills: speaking, reading, listening, and writing.

The levels of languages are influenced by various factors. Linguistic distance refers to the differences between languages and their evolution. Languages from the same language family, like French, Spanish, and Italian, have similarities, while languages from different families, such as German and Mandarin, are more linguistically distant. The farther your native language is from the language you're learning, the more challenging it may be. Grammar rules can also affect difficulty, as different languages have unique grammar structures. Pronunciation plays a role, with tonal languages like Mandarin requiring precise pronunciation and inflection. Writing systems vary, with some languages using the Latin alphabet, others having their own unique alphabets, and some based on distinct writing systems.



Visualization

Welcome to our Interactive Visualizati

A world of remarkable achievements as we embark on a journey to explore and celebrate the contributions of women who have advanced visual data science analysis, we unravel the stories behind the numbers, we uncover the challenges faced by women in their pursuit of excellence. Comprehensive analysis provides a captivating visualization of the data series. We examine the representation of women over time, so we can delve into specific Nobel Prize categories to explore whether certain categories receive more nominations, we compare the achievements and recognition received

Castreamviz A R K Home Analytics Movies Series About

Next episode
Season 1 Episode 7

Continue watching for Angle



StreamViz

Streaming Platform Visual Comparisons

Here you'll find interactive data visualizations that analyze and compare the content (movies & tv), subscribers and revenue of the most popular streaming platforms today!

The Idea

Final Group Projects 2022-2023

- 2021-2022 Group projects
<https://tinyurl.com/328sxwe7>

Violence against women is psychological a...

Being an issue of critical importance nowadays as much as ever, violence against women concerns all forms of physical and sexual violence, as well as psychological abuse and controlling behaviours. Femicide is among the most horrendous forms of this major problem.

While violent crimes are of equally high significance regardless of the victim gender, violence against women is a problem that needs to be addressed as a special case due to the specific factors that lead to its occurrence. The need for strategic prevention and response is apparent from the impact on the physical, sexual and mental health of the victims, which may in many cases be fatal.

It has been 46 years since Elena Bonner coined the word "femicide" in March 1976 at the 1st International Tribunal for Crimes against Women in Brussels. The aim of this word was to make the world aware that the violent death of women is a crime that should not be confused with the gender-neutral term "homicide". Characteristically, she had stated that it is impossible to meditate against something without a name, that is, something that until now has been "invisible". Words are what gives meaning to the world.

How many homicides take place each year across the world?

The frequency of homicides worldwide has remained roughly the same in the long term.

The victims are more often men than women.

Despite the fact that men are considered more often than women, there are very few.

Recorded intentional homicides, worldwide, 1990 - 2020, by year and victim gender

Year	Male	Female	Unknown
1990	~25000	~10000	~5000
1995	~28000	~12000	~6000
2000	~30000	~13000	~7000
2005	~32000	~14000	~8000
2010	~35000	~15000	~9000
2015	~38000	~16000	~10000
2020	~40000	~17000	~11000

Overfishing

Did you know that study shows that all the world's fisheries will collapse by 2048 if nothing changes and unsustainable fishing rates continue? Today the share of fish stocks are pushed beyond their biological limits - meaning we catch fish faster than they can reproduce to sustain population levels. According to the United Nations Food and Agriculture Organization (FAO), the world's authority on fisheries, 34.2% of fisheries are overfished.

If we want to preserve the ecosystems of the sea, change is needed. In this project we will visualize worldwide fishing and fish consumption data for a better understanding of the overfishing problem.

Have a look at the visualizations.

DATA VISUALIZATION (M126)

Team 4 Final Project

CLIMBING.IO

Rock Climbing and the Gender Gap
A use case on the differences between female and male athletes in the sport discipline of sport climbing.

By Peira Argerinou - Kallifeida, George Sotikas, Alexandros Taverarakis, and Dimitrios Zontanos
06 July 2022

Project

Energy Visualization

Electricity production and usage

General EU Accidents

Casualties Per Million

Casualties Per Country Per Million

Video Presentation

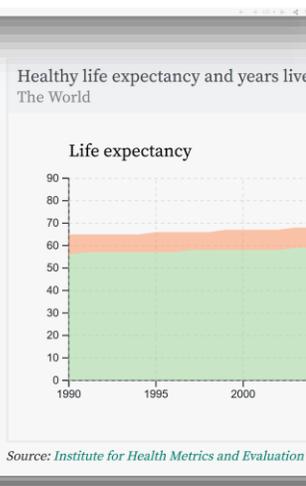
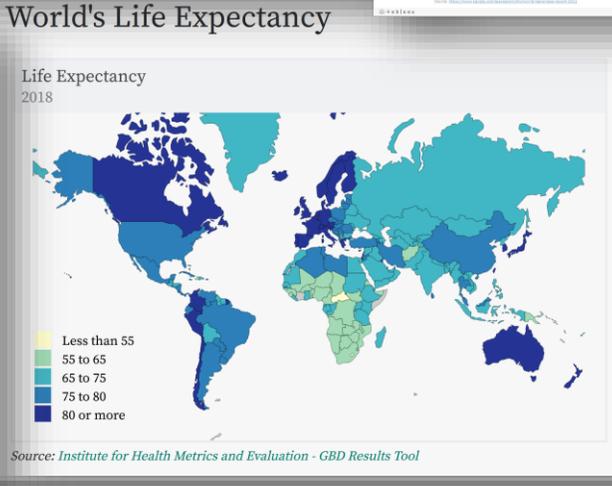
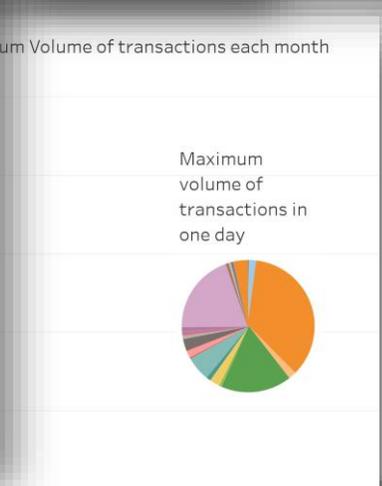
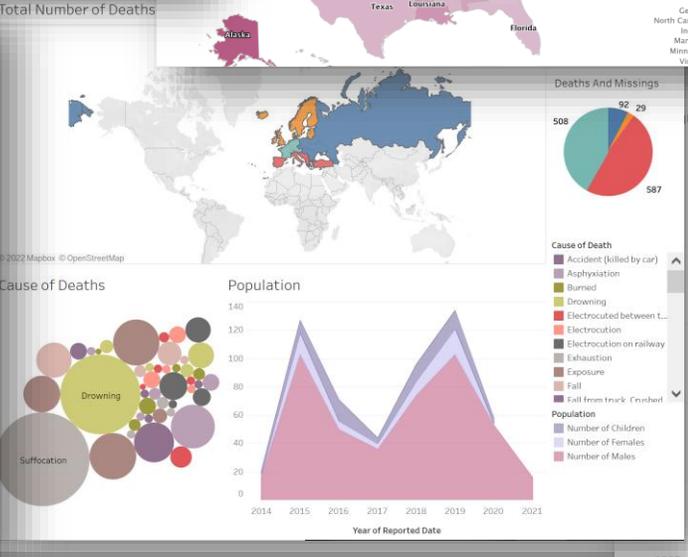
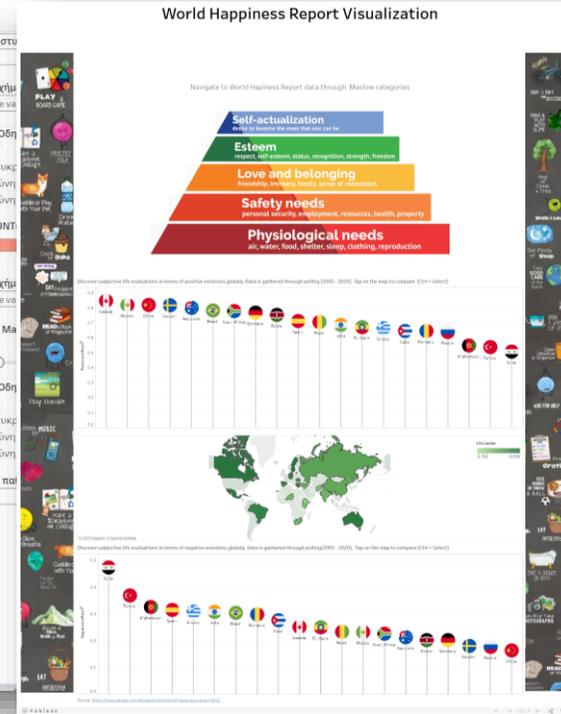
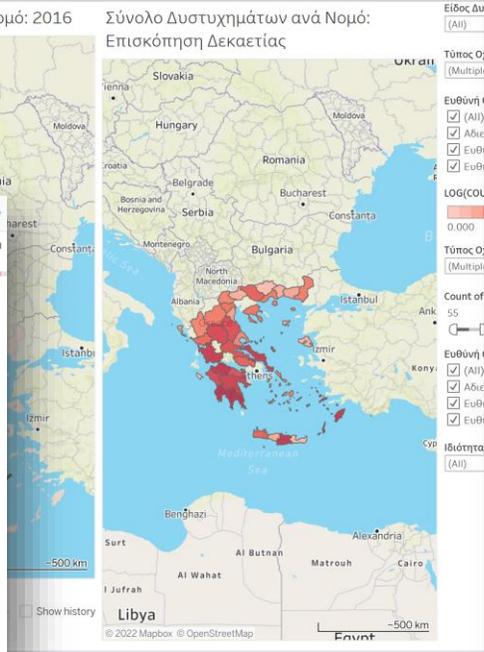
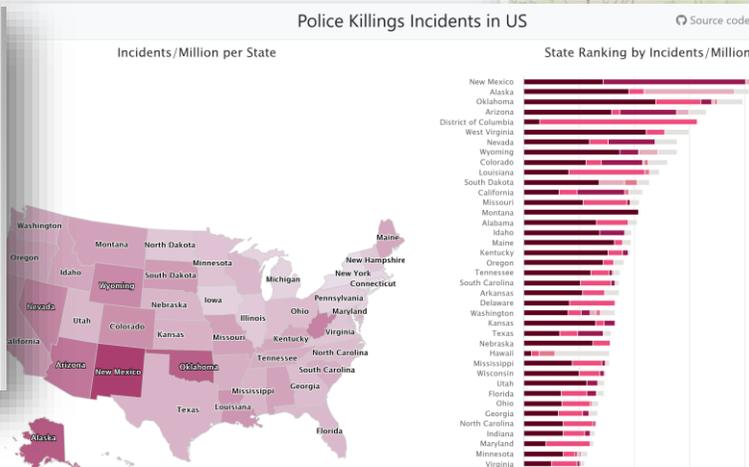
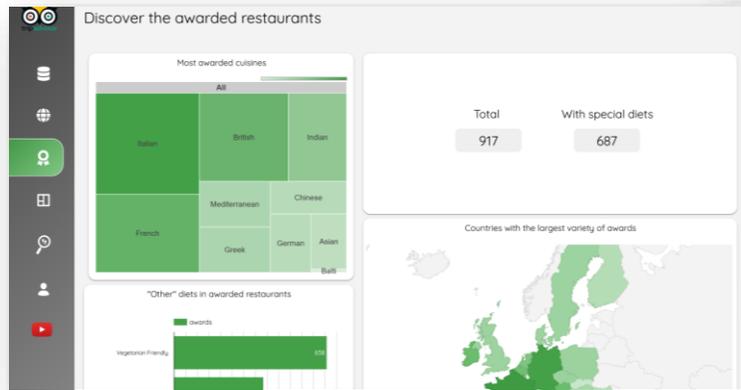
Online education has been widely applied for the last 2 years, due to the pandemic conditions. Initially it was perceived as a temporary solution to an urgent condition, but as years went by, students became familiar with this new kind of education and started to adapt to it. Some may argue that online education is here to stay, initiating a new era in education from anywhere, anytime. However, is online education enough? No matter the overall students performance, online education is considered to be insufficient with regards to students' social interaction with each other, culture, ethics, etc. This work aims to highlight and combine the facts into visualizations that will help us build a solid view on whether students are well adapted to online education and under which circumstances.

Even though the issue has been widely discussed the past two years, we have not been able to find good variety of datasets in order to form our visualizations, probably because the issue is relatively new. We have utilized datasets from Unicef, Kaggle and Mendley as presented in the corresponding section, and we tried to form visualizations that bring value to the stakeholders.

Watch on YouTube

Final Group Projects 2020-2021

- 2020-2021 Group projects <https://tinyurl.com/8tr3xms5>



Final Group Projects 2020-2021

1. Restaurants in Europe: A Visualization Analysis

Site: <https://datastudio.google.com/u/0/reporting/d9941ae3-5460-43d1-ae10-4db6416db2a3/page/3nn6B>

Video: <https://youtu.be/PtcYpt6As1Y>

2. Cryptocurrencies

Site: <https://datavisualisation2021.github.io/Cryptocurrency/>

Video: <https://datavisualisation2021.github.io/Cryptocurrency/credits.html>

3. Εξαφάνιση Προσφυγικών Ροών 2014-2021

Site: <https://elenapashali.github.io/DataProjectGroup3/>

Video: <https://youtu.be/uJANgP5s41o>

4. Οδική Ασφάλεια

Site: <http://users.uoa.gr/~ic1200016/m126/index.html>

Final Group Projects 2020-2021

5. World Happiness Report Visualization

Site: <https://ippokratoy.github.io/world-life-happiness-visualization/>

Video: https://youtu.be/Mizq_obRqvY

6. GamingAnxiety

Site: https://mikemitsios.github.io/Gaming_Anxiety/index.html

Video: <https://www.youtube.com/watch?v=taYprdbYIOE>

7. World's Life Expectancy

Site: <https://lefkothea-bianca.github.io/Data-Visualization-Project.github.io/>

Video: <https://youtu.be/QKzmGfvBxus>

8. Police Killings Incidents in US

Site: <https://jbalasis.github.io/dataVisualization/dashboard>

Video: <https://jbalasis.github.io/dataVisualization/video>

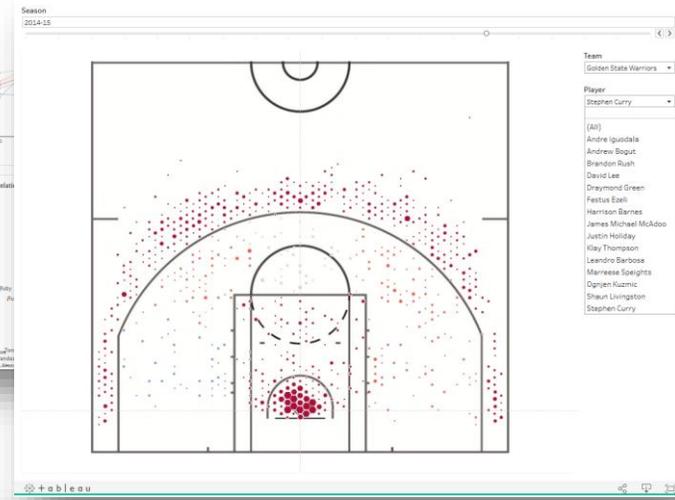
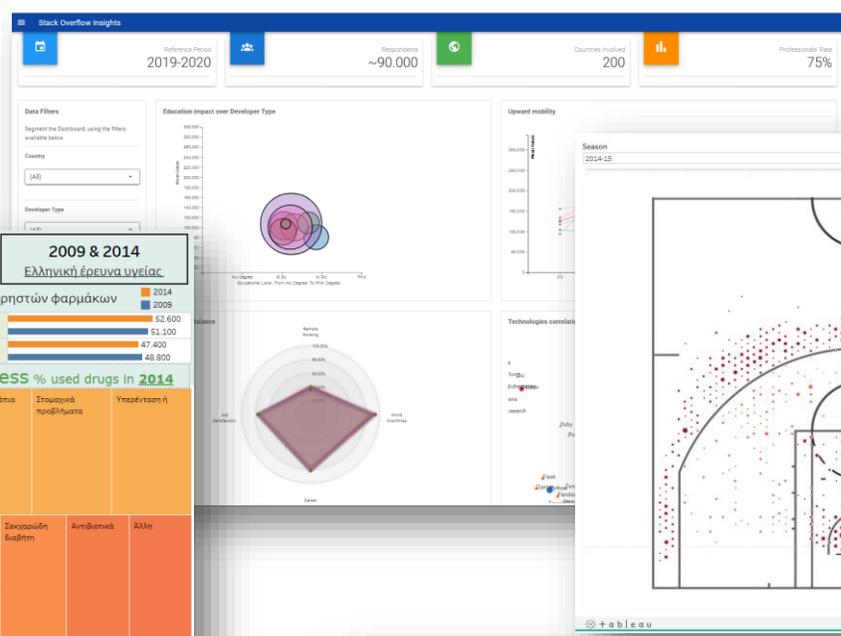
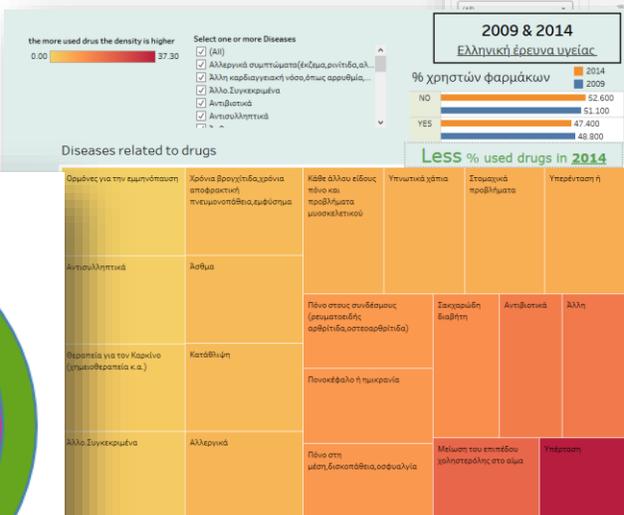
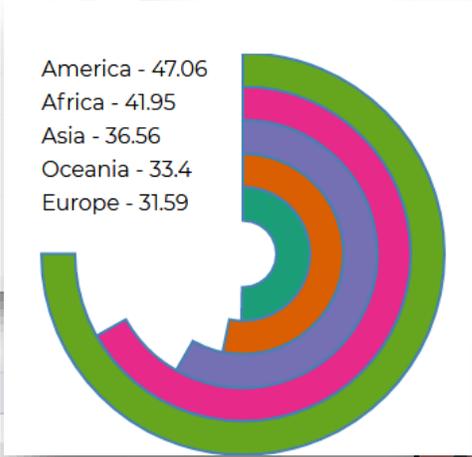
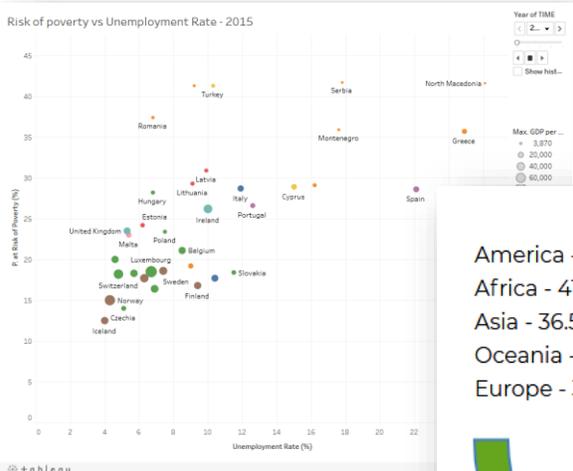
9. Students' Performance

Site: <https://app.powerbi.com/groups/me/apps/cc52c2b9-b854-42b1-99cf-f873e3d6c20c/reports/34c779d7-9c5b-42a2-b0b8-847e33c6fc03/ReportSection>

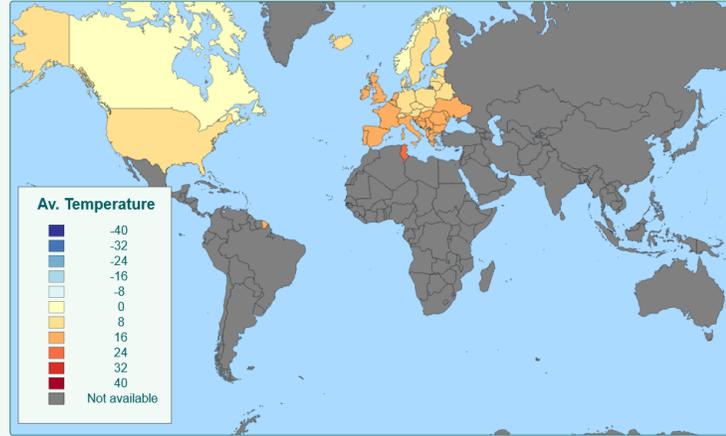
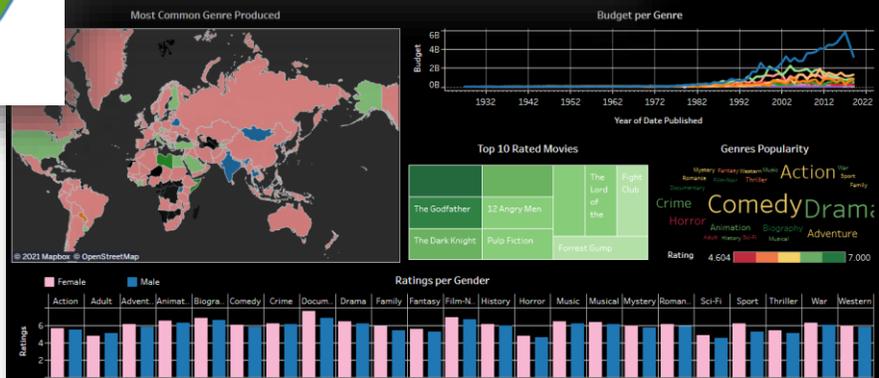
Video: https://drive.google.com/file/d/13RX7_iuDjaj9Ek0DpQ2CzOJb_PytmSTP/view

Final Group Projects 2019-2020

- 2019-2020 Group projects <https://tinyurl.com/y76394h2>



Global Average Temperature per Year



Final Group Projects 2019-2020 (1/2)

1. Health data visualizations in Greece

Site: <https://vnansi.github.io/dashboardabouthealth>

Video: https://youtu.be/_qVkJE7krq5I

2. Netflix Data Visualisation

Site: <https://kleanthi7.shinyapps.io/NetflixDataVisualisation>

Video: <https://www.kapwing.com/videos/5f0b66a3dce446001502e5c8>

3. The Big Screen Visualization

Site: <https://xkitsios.github.io/DataVizProject/>

Video: <https://youtu.be/7j08kc5-c6E>

Final Group Projects 2019-2020 (1/2)

4. NBA Shot Evolution

Site: <https://in7ictus.github.io/m126/>

Video:

<https://github.com/in7ictus/m126/blob/master/assets/presentation.mp4>

5. Stack Overflow Insights

Site: <https://stackoverflow-viz-app.github.io/stackoverflow-developers-insights/>

Video: <https://youtu.be/wS0mzuOE2eA>

6. World Income inequality

Site: <https://income-inequality-dv.herokuapp.com/dashboard>

Video: <https://income-inequality-dv.herokuapp.com/video>

Final Group Projects 2019-2020 (2/2)

7. Social Inequalities between EU students

Site: <https://jvardas.github.io/group-7-dataviz/>

Video: <https://vimeo.com/437672319>

8. Movie Data Visualization

Site: http://83.212.107.231/#main_dashboard_graphs

Video: <https://www.dropbox.com/s/kp6ia864v0yydbp/2020-07-12%2018-49-15.mkv?dl=0>

9. Global Warming

Site: <https://kostis30fyllou.github.io/climate-change/>

Video: <https://www.youtube.com/watch?v=OwR-5u2Mhfl&feature=youtu.be>

-
- See
“The Role of Big Data Visualization in an Era of Pandemics”
Open Conference, November 2020
<https://youtu.be/xP257qHKcME>

Next

Data Visualization: What and why?

Individual Assignment #1

Thank you!

mroussou@di.uoa.gr

<https://eclass.uoa.gr/courses/DI453/>

Discord: <https://tinyurl.com/m126-discord-26>