

# Data Visualization

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## ASSIGNMENTS

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Instead of an exam, pairs of students form groups and design and present visualizations of some data

Deadline for providing the visualizations and presentation slides: **Friday, December 13 (strict deadline!)**

Send materials by email to: [tea.tusar@ijs.si](mailto:tea.tusar@ijs.si) (subject: VIZ group No. **X**)

Presentations in class: **Wednesday, December 18**

# Assignments

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Choose a topic you are interested in from

- List of example topics
- Collection of public data sources on Moodle
- Your own data

Find the data and **two or three interesting questions** about the topic

Produce visualizations of moderate sophistication that answer those questions

Present the results

Use any software/tool

# Topic/question examples (1)

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Space



How long does it take for Jovian satellites to orbit Jupiter? What are their sizes (and other properties)?

Music



How have the lyrics and/or duration of songs of your favorite singer evolved through time?

Politics



What were the durations of Italian governments? How have the ruling parties changed in time?

# Topic/question examples (2)

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Sports



Which are the most successful teams/countries in Champions League? Which have most often lost in the final?

Movies



How often is an Italian dubbing actor associated with the same original actor? Which dubbing actors have been associated to the largest number of different original actors?

Demographics



How did the Italian demographics looked in the past? How do the forecasts look like?

# Presentation

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## Structure of the presentation

- Topic and data introduction
- Addressed questions
- Visualizations and findings about the data, answers to the questions
- Individual contributions of the students in the group

The presentation should not take more than 10 minutes

We will discuss the visualizations after each presentation

Be prepared to answer questions about your design choices and possible alternatives

# Grading

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Graded aspects (make sure you pay attention to all of them)

- Visualization
  - Pose clear questions and answer them with the visualizations
  - **Showcase what you have learned** (appropriate choice of representation and color, avoid lying, maximize accessibility, minimize clutter, use annotation, cite the source of data, ...)
- Presentation
  - Follow the proposed structure (including the individual contributions)
  - Make sure there are no typos
  - Respect the allocated time
- Follow submission guidelines (deadline and email subject)

# Groups

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<b>ID</b>	<b>Students in the group</b>
1	Andrea Gasparin, Valeria Paolucci
2	Lorenzo Fresco, Nicola Meneghini
3	Patrick Indri, Enrico Fallacara
4	Laura Balasso, Alessia Paoletti
5	Giulia Franco, Michela Venturini
6	Federico Pigozzi, Natalia Slipchuk
7	Nadimi Motahhareh



# Improve your grades

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If you are not happy with your grades, you can improve them!

- Ask for a list of things to improve
- Provide new visualizations and presentation
- Get a new grade

## Two possibilities

- By email
- In February at the next exam (exact date not set yet)