

Übung zur Vorlesung

Informationsvisualisierung

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Solution

Exercise 2

Exercise 2 - 1 a)

- What's a heatmap?
 - Visualizes frequencies/size of a value using a color palette (metaphor: “cold” to “warm”)
 - Often, colors are calculated based on the maximum and minimum in the dataset

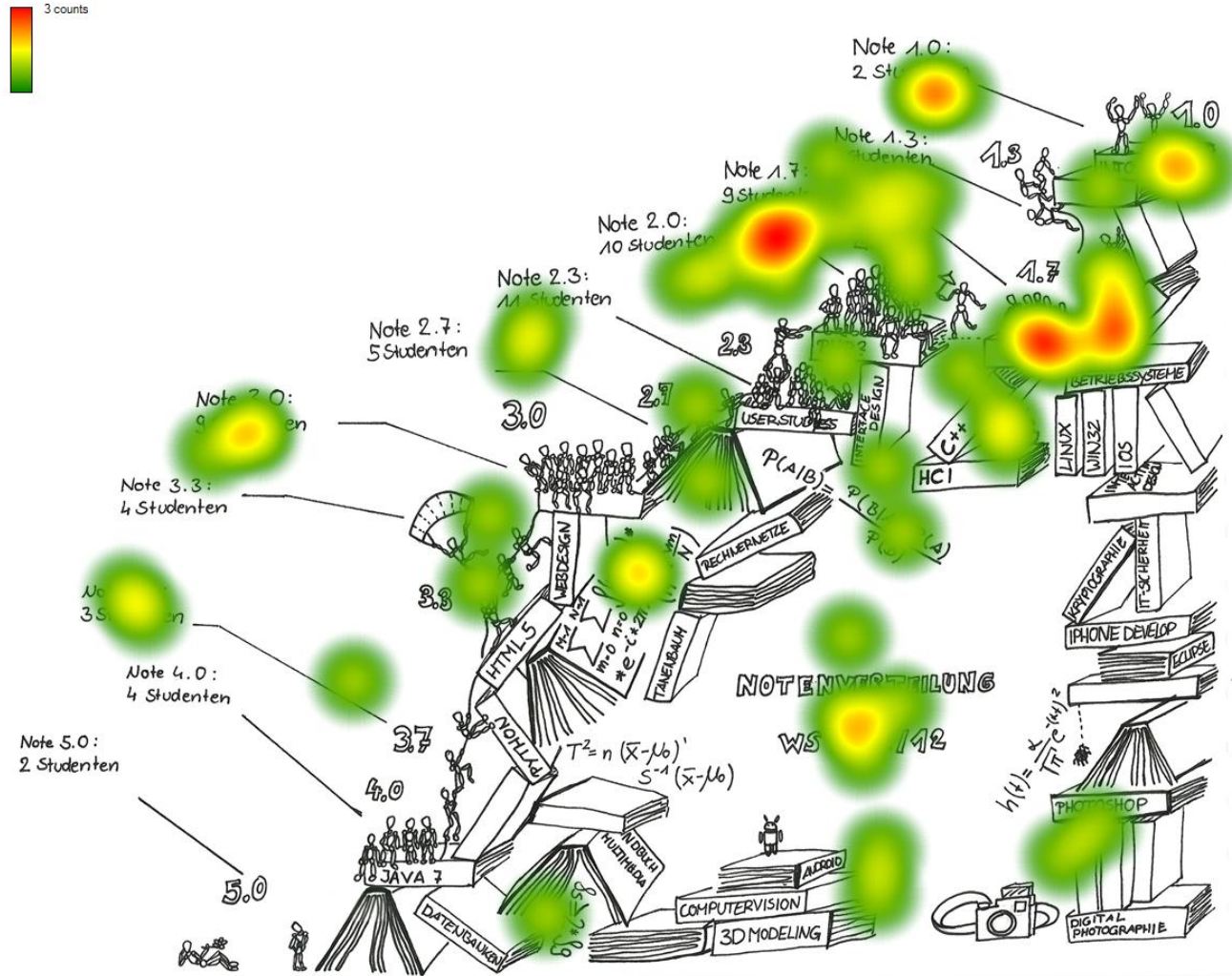
Exercise 2 - 1 b)

1. infrared camera



Exercise 2 - 1 b)

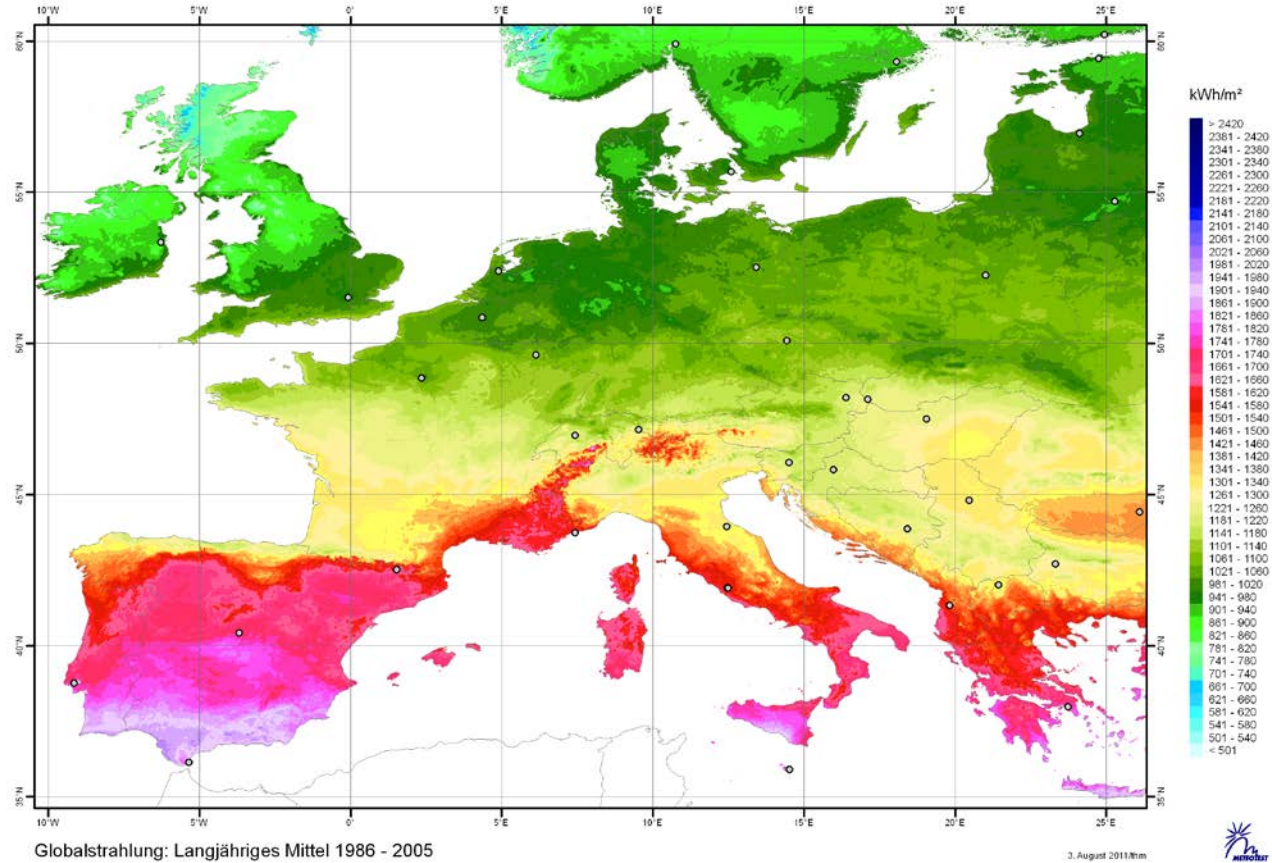
2. eye tracking



How many students finished the exam with a grade of 1.7?

Exercise 2 - 1 b)

3. geo localization



Exercise 2 - 2



Exercise 2 - 2

- Information visualization should allow for efficient data exploration
- Heatmaps show immediately (preattentively) which letters are used most frequently in the respective texts
- E, S, I, N dominate those German texts
- Entropy encodings like the Morse alphabet exploit such properties

International Morse Code

1. A dash is equal to three dots.
2. The space between parts of the same letter is equal to one dot.
3. The space between two letters is equal to three dots.
4. The space between two words is equal to seven dots.

