The YOU-PB data set Proposed solution

What can we find out about the interviewees in general?

Link to the data record in CODAP:<https://tinyurl.com/you-pb-50en>

1. How many pupils took part in the survey?

1287 (1273 is also OK as an answer, as 14 cases are "filed", i.e. hidden )

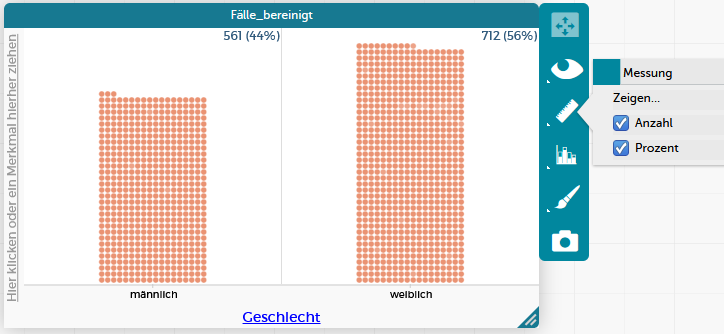
14 cases were excluded because they gave "nonsense answers" to numerical answers, e.g. watching 1,000,000 minutes of television per day. Hidden cases are not included in any visualization or calculation.

Ein Bild, das Tisch enthält.

Automatisch generierte Beschreibung

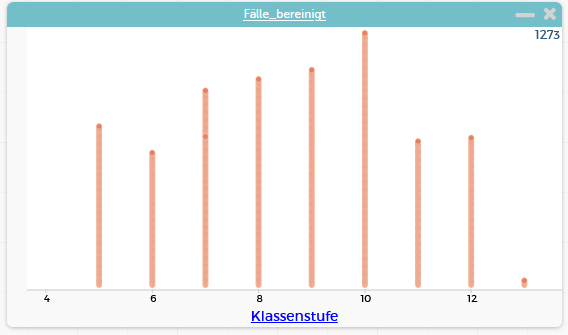
The following answers refer to 1273 participants!

1. How many female participants took part? How many males? What percentage does this represent in each case?



561 males (44%) and 712 females (56%) took part.

1. What is the distribution of the variable grade level?



* 1. What grade levels are the participants in?

The students come from grades 5 to 13.

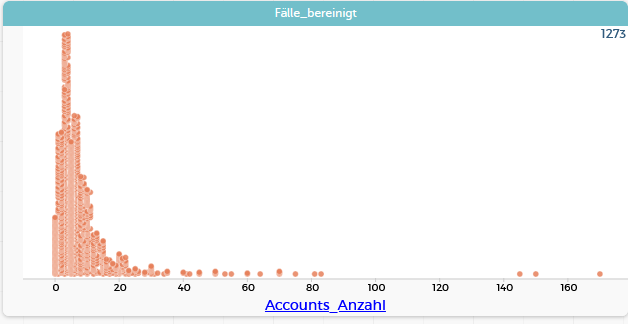
* 1. Which grade level had the most respondents?

Most respondents indicated grade 10.

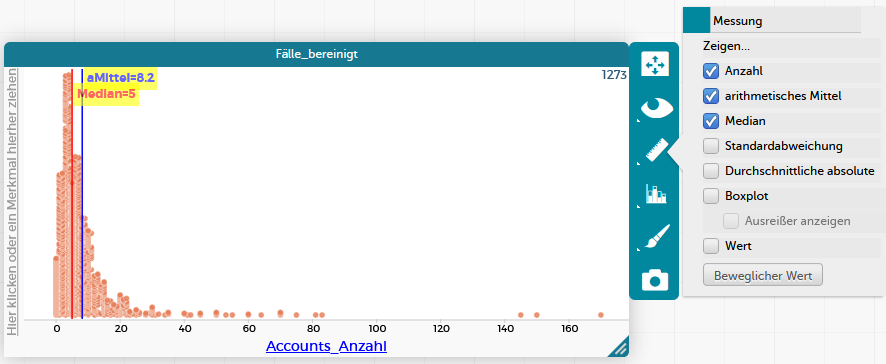
* 1. Which grade level had the fewest respondents?

The fewest respondents indicated grade 13.

1. How many accounts do respondents have on their smartphones?



* 1. Where is the average? In other words, how many accounts do respondents have on their smartphones on average?



On average (arithmetic mean, blue), the respondents have 8.2 accounts,

With such a skewed (right-skewed) distribution, the median is the better choice.

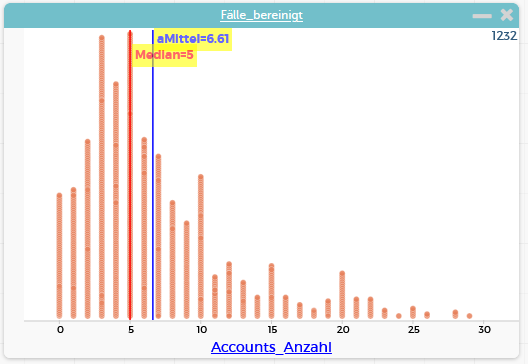
* 1. What is the median of the variable *Accounts\_Number*?

The median (red line) of respondents had 5 accounts.

* 1. How do the median and arithmetic mean shift if you exclude all cases that stated that they had 30 or more accounts?

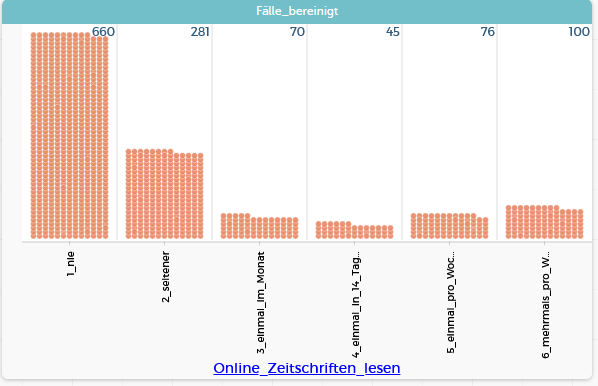
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Automatisch generierte Beschreibung



The median remains the same, the arithmetic mean (sensitive to outliers) falls to 6.61 accounts per person.

1. How often do participants read magazines online?



* 1. Which two groups can respondents be divided into with regard to their online magazine reading behavior?

For example, it is possible to identify frequent readers who read online magazines at least once a week (for this purpose, the values 5, 6 and 7 are combined, whereby 7, i.e. daily, was not given as an answer by any of the respondents) and, as a second group, infrequent readers (values 1, 2, 3 and 4). This grouping is subjective and can also be done differently.

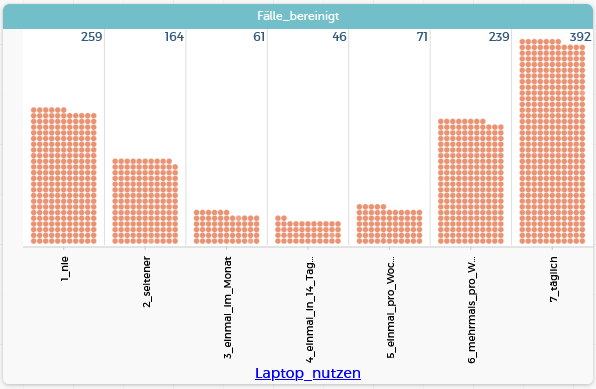
* 1. Are there more "frequent readers" or "infrequent readers"?

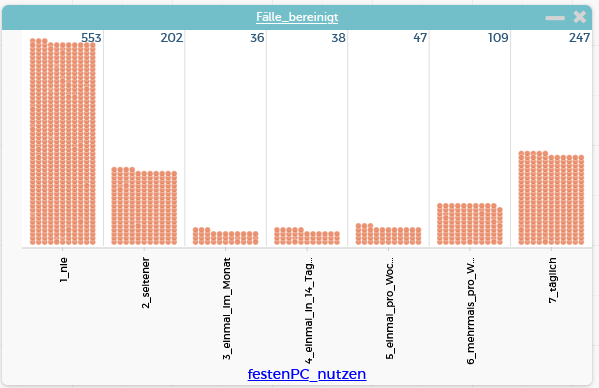
Frequent readers: 76+100= 176

Selten-Leser: 660+281+70+45=1056

There are significantly more infrequent readers among those who read online magazines than frequent readers.

1. Which device is used more often every day, the laptop or the fixed PC?

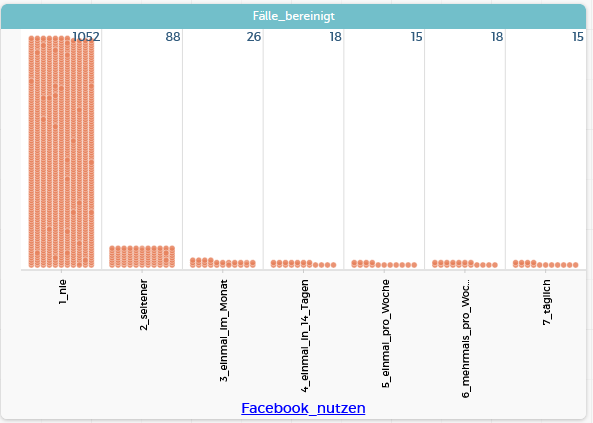


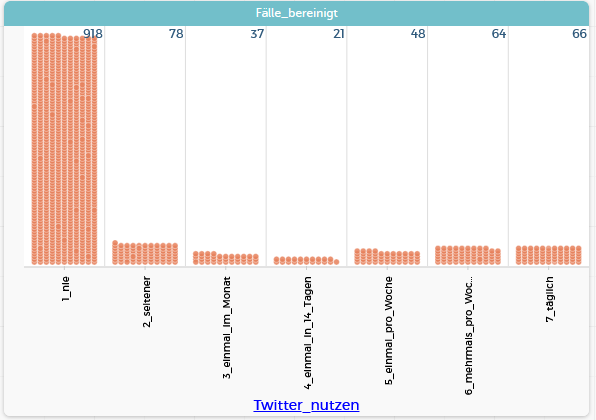


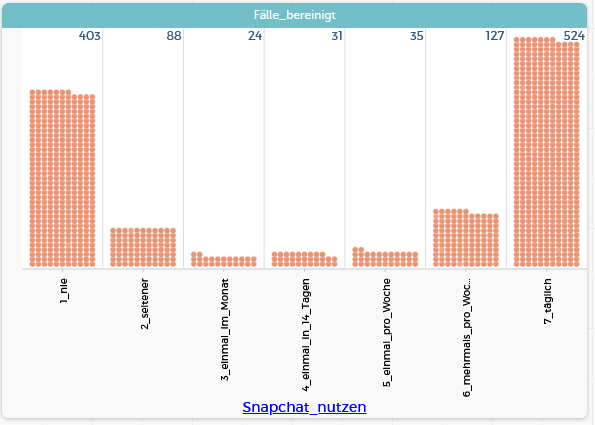
A larger proportion of respondents use their laptop every day. 329 of those surveyed stated that they used their laptop every day, whereas only 247 respondents stated that they used their fixed PC every day.

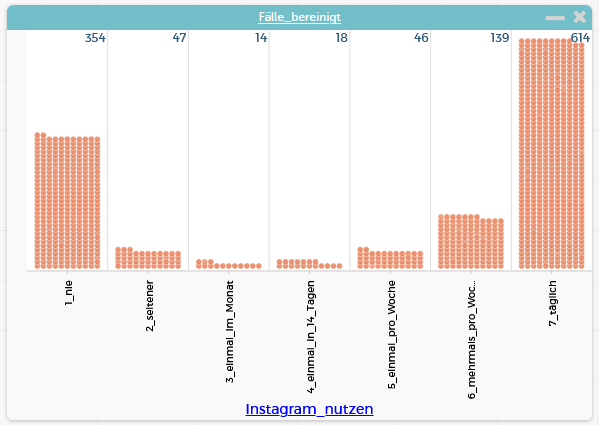
1. Which social networks were asked about?

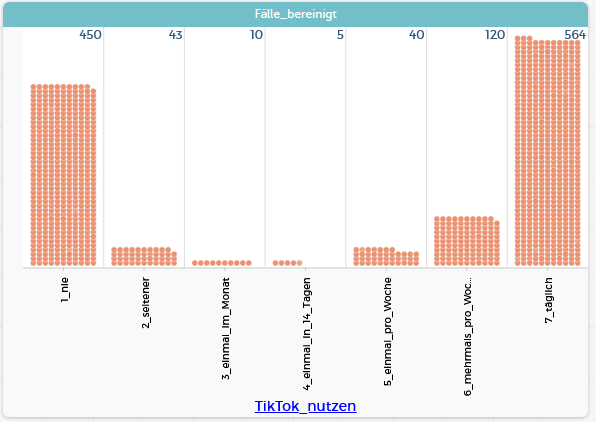
Facebook, Twitter, Snapchat, Instagram, TikTok, Twitch (depending on the definition of social network, Zoom, MS Teams, YouTube can also be listed here)

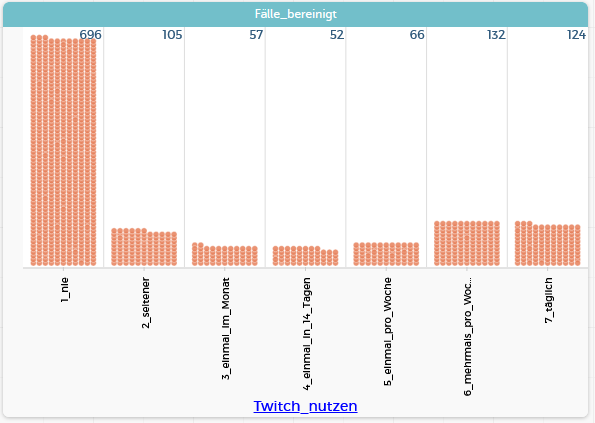
* 1. Which of these is used the least?





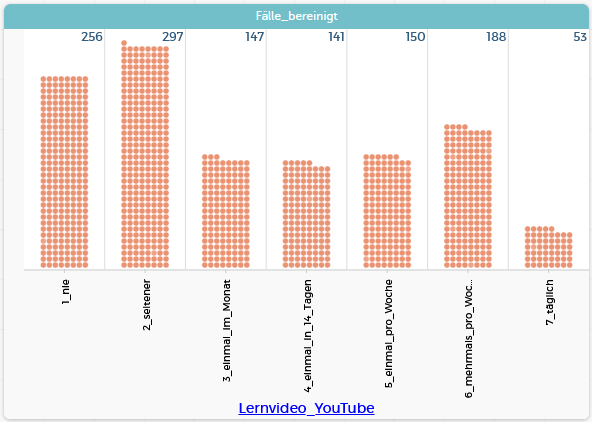






Facebook was stated to be used the least often. 1052 respondents stated that they never use Facebook, which is the most of all networks.

1. How often are educational videos watched on YouTube?



Educational videos are watched in any form between never and daily.

* 1. Which groups can be identified here?

Here, for example, frequent users (daily, several times a week, once a week), infrequent users (once a fortnight, once a month, less often) and never users (never) can be identified. Never users are the smallest group with 256 respondents, followed by frequent users with 391 respondents and the largest group are infrequent users with 585 respondents.

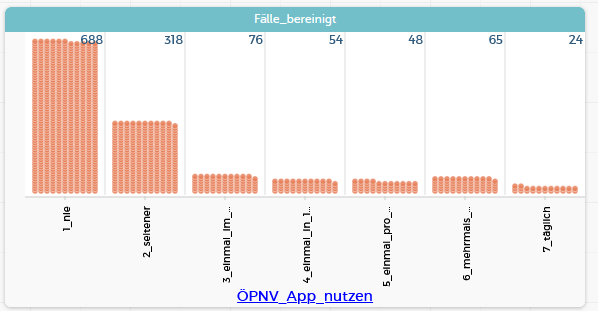
1. Ein Bild, das Text, Outdoorobjekt, Frachtcontainer enthält.

   Automatisch generierte BeschreibungWhich device is played on most often every day?

Smartphones are the most popular daily gaming device.

1. Ask two questions of your own to find out something about the respondents from the data.

How many respondents never use a public transport app?



688 respondents never use such an app.

Ein Bild, das Text, Tisch enthält.

Automatisch generierte BeschreibungHow long does the player who plays computer games the longest?

7200 minutes - but this is probably an incorrect figure, as the week has just 10,800 minutes, and presumably nobody plays 120 hours a week, plus the information from a 12-year-old female respondent who said she never plays on a PC, console or tablet, but only several times a week on her smartphone.

**Homework**

Summarize in a short report what you have found out about the interviewees. Cover at least 10 different aspects.

Start like this: \_\_\_\_ young people took part in the survey. Of these, ....

1287 young people took part in the survey, of which only 1273 were analyzed. Of these, 561 were male and 712 female. The respondents came from grades 5 to 13, with the fewest coming from grade 13. On average, respondents stated that they had 8.2 accounts. The vast majority of respondents (660) stated that they never read online magazines, with 100 doing so several times a week. The laptop is used slightly more often than the PC on a daily basis. Of the social networks, Facebook is used the least by respondents. Educational videos on YouTube are used by the respondents, but the largest group are the infrequent users. Cell phones are used most frequently on a daily basis and most people never use a tablet to play games.