

INFS 5116 – DATA VISUALISATION

Workshop Week 3

Quiz

Kahoot quiz on guidelines for visualisation.

Workshop questions and discussion points:

Question 1 – Is this an effective way to present the data?

Examine Figures 1 and 2 below. What conclusions can be drawn from these? Which is more appropriate?

The data comes from a 'social trends' survey; responses obtained in 2010 from a representative sample of 1488 US adults.

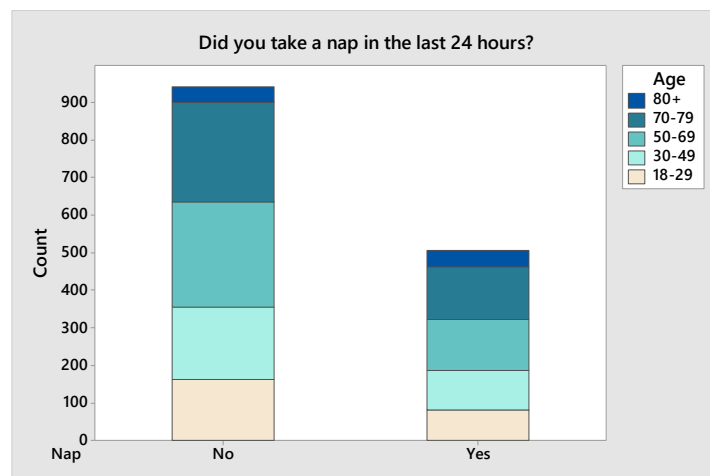


Figure 1. Summary of survey responses (counts) to a question about napping

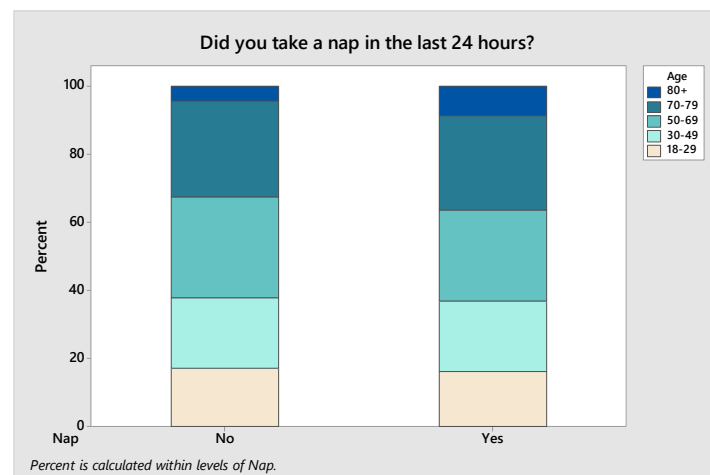


Figure 2. Summary of survey responses (in percent) to a question about napping

Question 2 – Which bar chart?

Examine Figures 3 to 6 shown below. What conclusions can be drawn from these? The data comes from virtual learning environment (VLE) access logs for a first year university course.

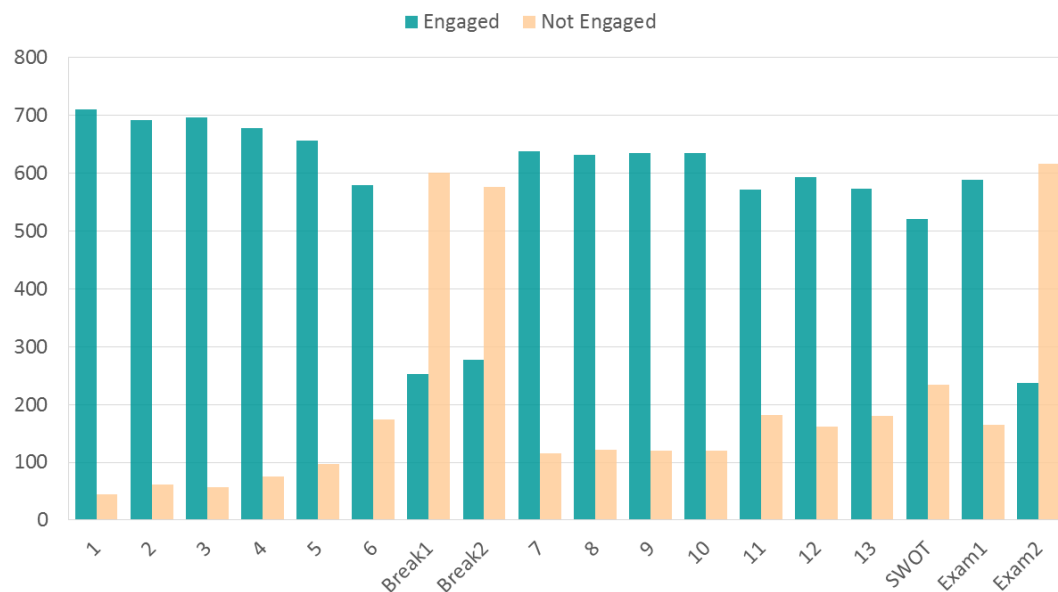


Figure 3. Weekly online engagement with VLE; count of students

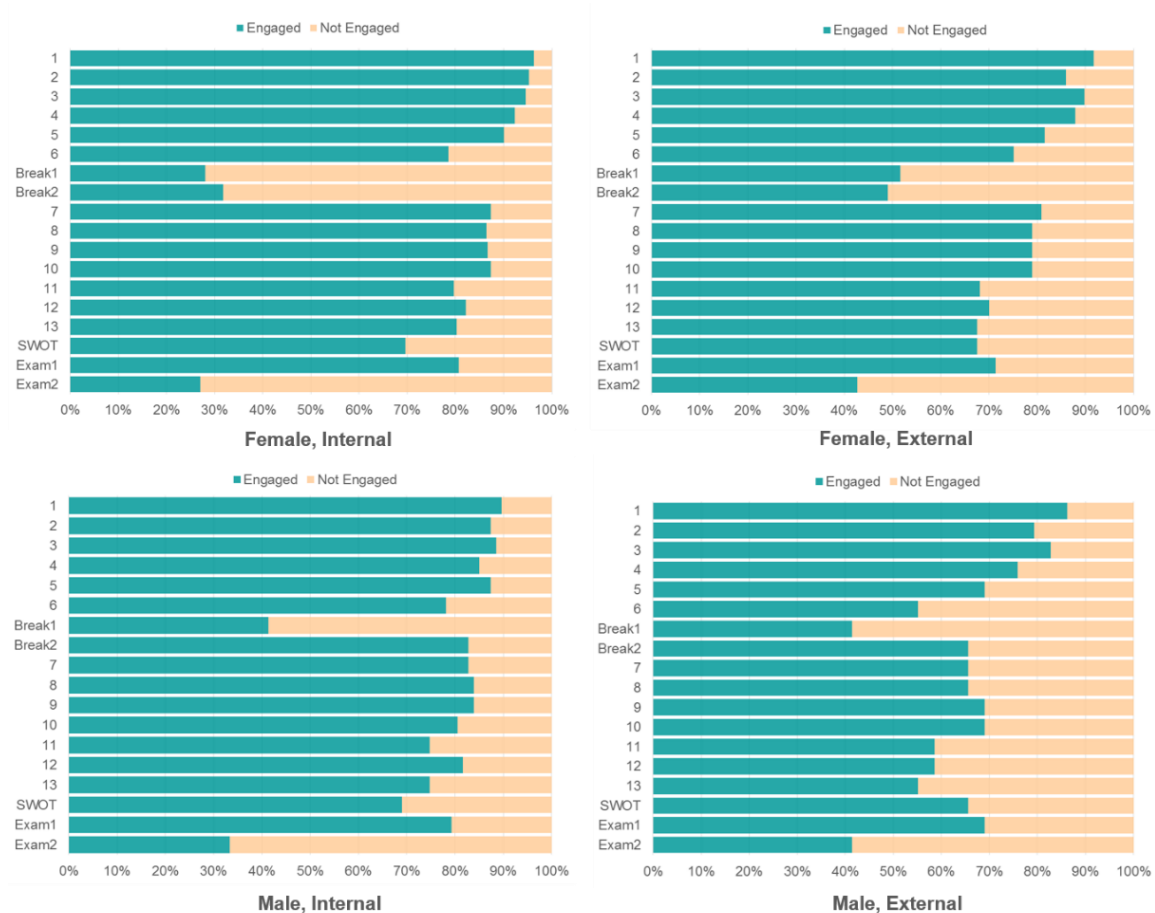


Figure 4. Weekly online engagement by study mode and gender; percent of students

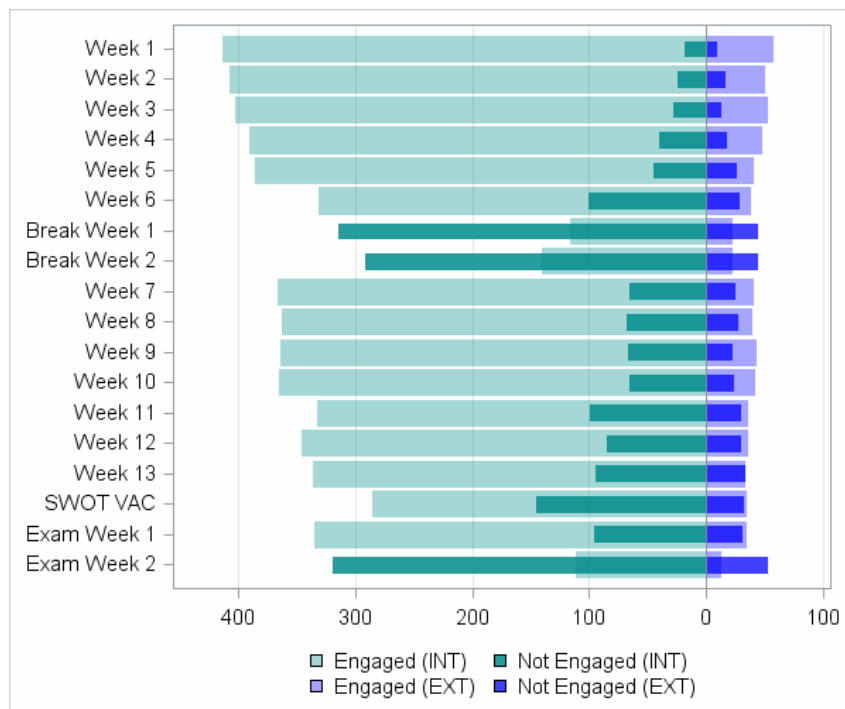


Figure 5. Weekly online engagement by school leavers (aged < 21 years); count of students

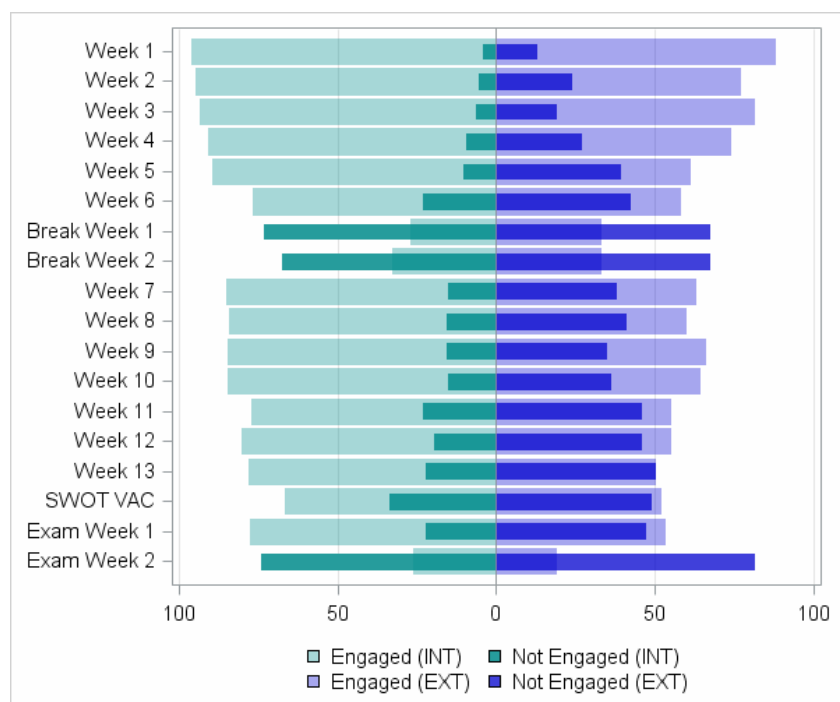


Figure 6. Weekly online engagement by school leavers (aged < 21 years); percent of students

Question 3 – How would you visualise this data?

The graph below shows capacity and demand measured in number of project hours over time. Is this the best way to show this data?

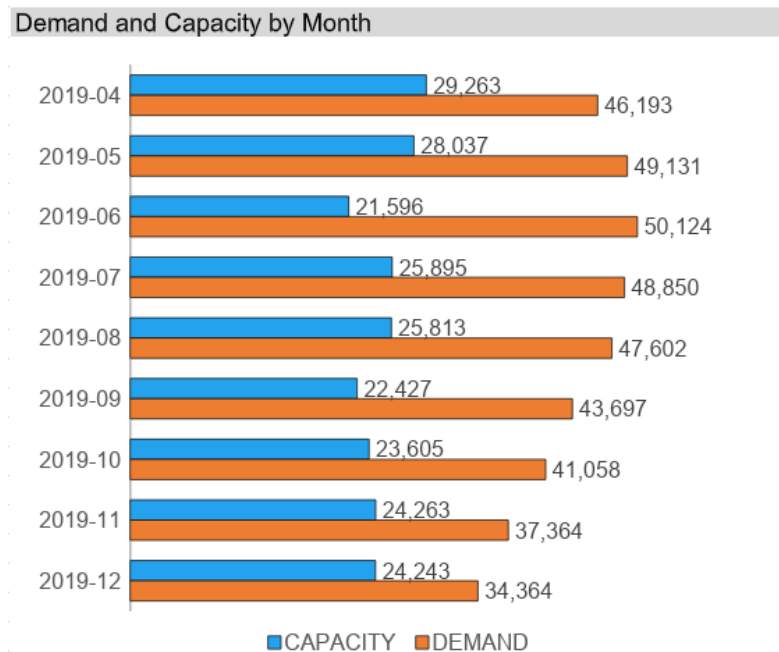


Figure 7. Demand and capacity in relation to completing projects

Get a blank piece of paper and set a timer for 10 minutes. In how many ways could you potentially visualize this data? Sketch your ideas. Which one do you like best and why?

Now download the data and create your favourite graph using a tool of your choice.

Data file: *demand.csv*