Title

- **Title**   Drug Consuming Behavior

- Date   2/3/2022

- Task   Visualization drug consumption behavior for age

Operation

- When a user selects the type of drug and attribute such as age, education, or country, the donut-shaped graph would show the proportion of drug usage per group which is shown as equally divided.

- The colors on the donut-shaped graph represent the percentage of people in the subgroup which represents the duration of drug usage.

- When a user puts its cursor on the particular part of the donut-shaped graph, it would show the detailed number for the segments.

- When a user clicks a certain group, the subgraphs, the number of people by gender for the specific subgroup of the attribute, and the distribution of personal trait over the selected attribute and drug would appear.

Focus

- The purpose of this graph would explain efficiently the behavior of drug usage, which includes the frequency of drug consumption for the people who actively take and the last time of drug usage for the people who stopped consuming.

- Width of the donut-shaped graph represents the recency of drug consumption. For example, if it is less than a week, it is located in the most inner part with the least diameter while if it is never consumed, it is located in the farthest part with the biggest diameter.

Details

- For the donut-shape graph, we need to reclassify the subgroup of drug usage, from 8 to 5 groups. Then, the proportions of each subgraph are needed to be calculated.

- For the subgraph, the number of people for a specific attribute, we need to calculate the number of people in each group by gender.

- For the subgraph, distribution of personal trait, we need to define the different types of scores and ideal values.