

Section 3: Plots for categorical variable

Review of important functions covered in this section:

Functions

pie	Draws pie chart
barplot	Draws a barplot
dotchart	Draws a Cleveland's Dot Plots

Exercise

We'll work with `warpbreaks` dataset (The Number of Breaks in Yarn during Weaving).

- Make a table of tension variable in the `warpbreaks` dataset, when the number of breaks are at most 30. Save it as R object `tab`.
- Use this table to draw a pie chart.
- Draw a pie chart with the above data where percentage of every category will be mentioned.
- Use heat color palettes in the previous plot. (Hint: `?heat.colors`).
- Get rid of the border in the above plot.
- Install and load the `plotrix` package. Hint: use `?install.packages` and `?load`
- Use `pie3D` function from the `plotrix` to draw the data used previously.
- Use `radius`, `explode`, `height`, `levels` arguments of the `plot3D` function to customize the plot. (Hint: `?pie3D`)
- Draw a barplot of the above data.
- Change the color of the above barplot to terrain color palettes.
- Cross tabulate tension and wool variable of the `warpbreaks` dataset when the number of breaks are at most 30 and plot the output using `barplot`.
- Draw a dot chart of the `tab` data and specify the labels.