Module: Advanced graphics

R program course Jan-Feb-Mar 2018 CCHE -57357

EXERCISEAdvanced graphics 3 (histogram-heat map)

Histogram

Use the excel file "RCC" containing the data about Renal cell carcinoma patients

- 1. Draw basic histogram for MALAT1
- 2. Change binwidth to 3, make the bars purple and their borders white
- 3. Make the background white
- 4. Fill according to Grade
- 5. Make coloured bars beside each other instead of on top each other (dodge)
- 6. Facet by Side
- 7. Add density to the histogram and make its transparency (alpha)=0.7

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Heat map

Use the excel file "LP" containing data for the lipid profile

- 1. Convert LP to matrix
- 2. Draw using heatmap.2 (very basic code)
- 3. Make the scaling according to the row
- 4. Make the colours bluered(200)
- 5. Remove the row labels on the right and the histograms inside (trace)
- 6. Add a colour key of size 2
- 7. Remove the density info (histogram) from the key
- 8. Reduce the size of the lipid labels (making them 1.5)
- 9. Heatmap only the most variable observations