**TU Dublin City Campus**

**Probability and Statistical Inference**

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**Week 5 Practical**

**Difference**

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**RESOURCES**:

1. Webinar on R notebooks with markdown <https://rstudio.com/resources/webinars/introducing-notebooks/>

2.R markdown cheatsheet - <https://rstudio.com/wp-content/uploads/2016/03/rmarkdown-cheatsheet-2.0.pdf>

**Step 1.** Download the zip file from Brightspace or the website that contains the datafiles we are using this week.

Unzip to a location that makes sense for you.

Make sure you have the data file and the notebook in the same folder or qualify the location of your data in your notebook.

Review.

**Step 2.** Download the R notebooks that accompany the lecture.

**Step 3.** Launch R Studio and open either the nb.html or the .rmd file for the lecture. Run through the commands.

**Step 4**. Using survey.dat (use read.table)

Try to address the following:

* Investigate whether there is a difference in the following for respondents who said they had children and those who said they did not
  + Total Social desirability (tmarlow)
  + Life Satisfaction
  + Negative Affect
* NOTE: if you have previously assessed variables for normality you do not need to repeat this you can use this information again

**Step 5**. Review the dataset for use with the digital portfolio. Identify TWO potential hypotheses where a difference test could be used.