



ANOVA

an Introduction

Wayne Stewart



The University of Oklahoma

Today

- The ANOVA table
- An example
- R functions



Making a Table

Source	Degrees of Freedom	SS	MS	F
A	a-1	SS_A	MS_A	MS_A / MS_{within}
B	b-1	SS_B	MS_B	MS_B / MS_{within}
$A \times B$	(a-1)(b-1)	$SS_{A \times B}$	$MS_{A \times B}$	$MS_{A \times B} / MS_{within}$
Within	ab(r-1)	SS_{within}	MS_{within}	
Total	abr-1	SS_{Total}		

We will use some health data

<http://www.personality-project.org/r/r.anova.html>

Lets Run R

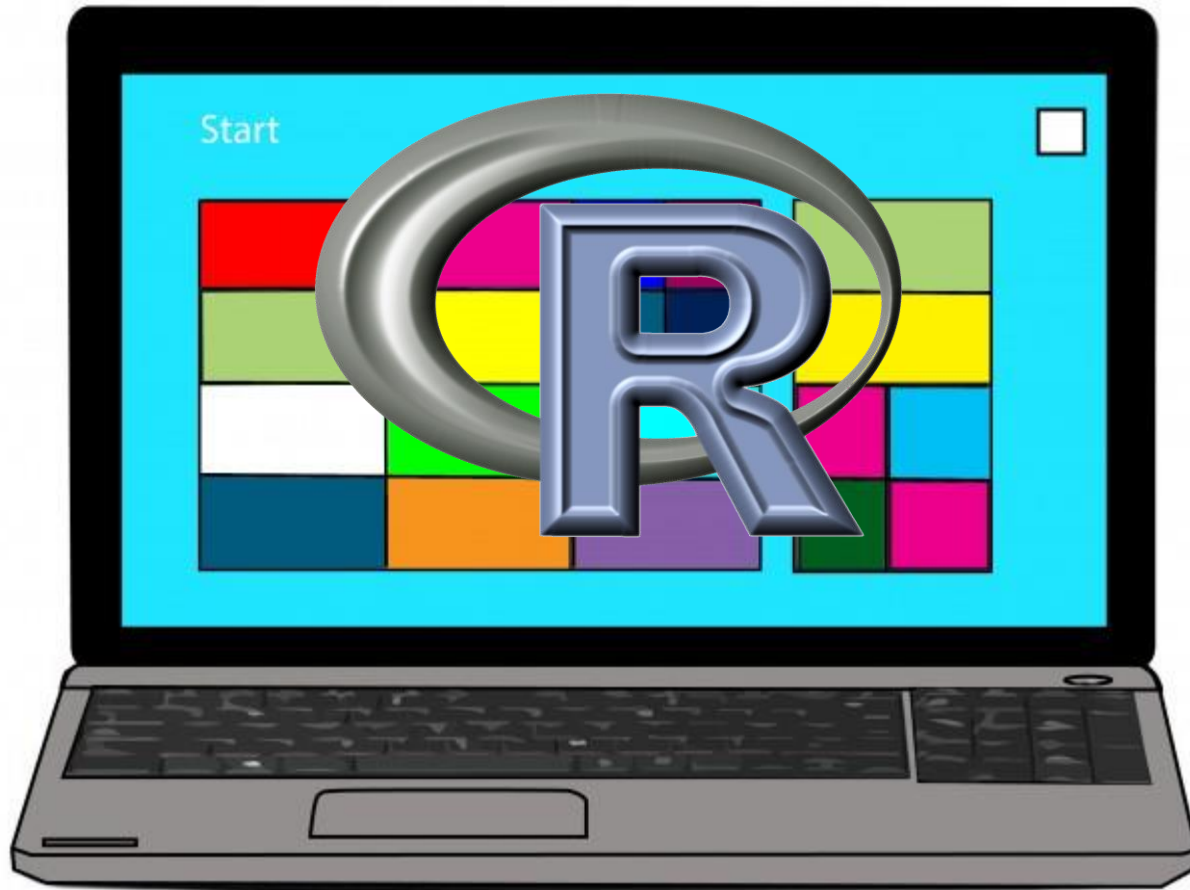
- What I suggest:
 - Get R from cran (Windows,Mac,Linux)
 - Get Rstudio <https://www.rstudio.com/>
 - Or get Tinn-R <http://sourceforge.net/projects/tinn-r/>
- Play!



Courses

- Bayesian Stats MATH 4803/5803
- Advanced Applied STATS MATH 4793/5793
- Applied Statistical Methods MATH 4753

Next time bring your laptop.



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