

# Unequal Cell Sizes

Psychology 3256

# Introduction

- Most designs assume equal  $n$ s
- except for the simplest ones, like say one way ANOVA
- Well let's say you have unequal  $n$ s, what then?

# What to do..

- Perhaps estimate the missing value(s)
- use the mean or media maybe
- do you include interactions or not?
- No matter what, you have lost df

# There are other ways

- Most of our analyses use Type I SS
- They are fine if ns are equal
- bad when unequal
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# Type II SS

- They are good when there is a missing value, but....
- but bad when there is an interaction

# Type III SS

- You may not know if there is an interaction or not
- so if you use Type III you are safe
- while we have learned Type I, analysis software uses Type III
- If ns are equal Type I=Type II=Type III

# Type IV

- Well, they can work with empty cells
- The problem with empty cells is umm, there is no unique solution

# Empty Cells

	A1	A2
B1	4	2
B2	2	

So, what goes there?

