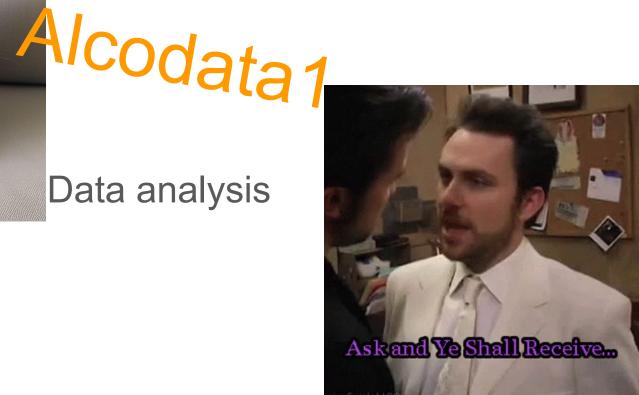
You wanna try some stastistics fam?

### Data analysis





# Thanks for today

## Results from complete case analysis

Call:

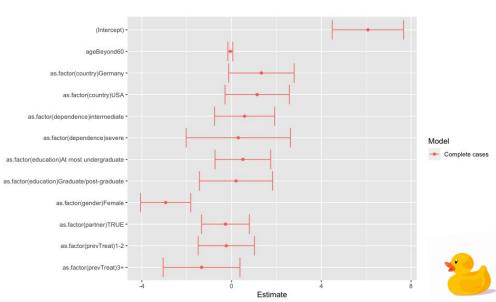
```
lm(formula = drinks ~ ageBeyond60 + as.factor(country) + as.factor(dependence) +
as.factor(education) + as.factor(gender) + as.factor(partner) +
as.factor(prevTreat), data = alcodata1)
```

#### Residuals:

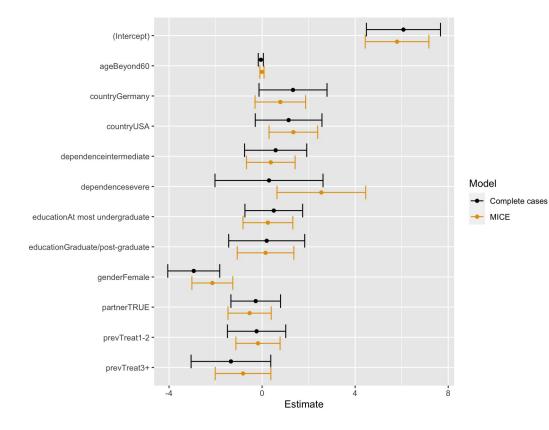
Min 1Q Median 3Q Max -7.4120 -3.0404 -0.9624 2.1281 29.5179

Coefficients:

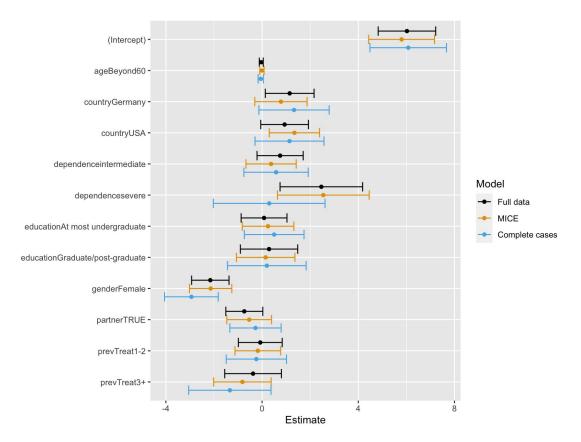
	Estimate	Std.	Error	t value	Pr(>ltl)	
(Intercept)	6.07584	0	80888	7.511	5.49e-13	***
ageBeyond60	-0.05569	0.	05571	-1.000	0.3182	
as.factor(country)USA	1.13988	0	72868	1.564	0.1187	
as.factor(country)Germany	1.32880	0	.74318	1.788	0.0747	
as.factor(dependence)intermediate	0.58177	0.	67972	0.856	0.3927	
as.factor(dependence)severe	0.29686	1.	18040	0.251	0.8016	
as.factor(education)At most undergraduate	0.50257	0.	63102	0.796	0.4263	
as.factor(education)Graduate/post-graduate	0.19726	0.	83072	0.237	0.8125	
as.factor(gender)Female	-2.93797	0	56745	-5.178	3.91e-07	***
as.factor(partner)TRUE	-0.27407	0	54198	-0.506	0.6134	
as.factor(prevTreat)1-2	-0.23750	0	63707	-0.373	0.7095	
as.factor(prevTreat)3+	-1.34014	0	87039	-1.540	0.1246	
Signif. codes: 0 '***' 0.001 '**' 0.01 '*'	0.05'.	0.1	''1			
Residual standard error: 4.717 on 331 degrees of freedom						
(337 observations deleted due to missingness)						
Multiple R-squared: 0.107, Adjusted R-squared: 0.07732						
F-statistic: 3.605 on 11 and 331 DF, p-value: 7.944e-05						



#### Results from MICE analysis - compared with CC analysis

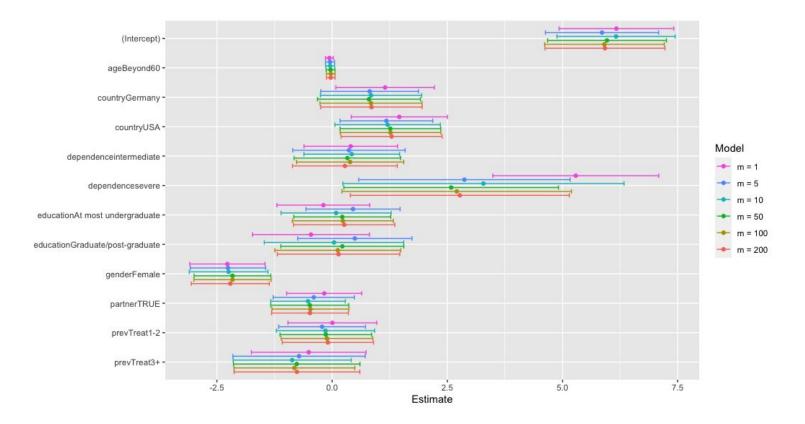


#### Results from MICE analysis - compared with CC analysis and "true" model



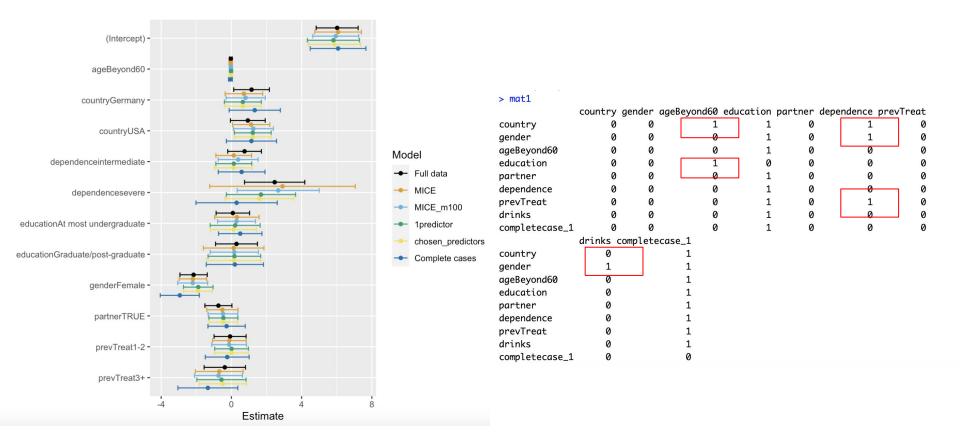
# DANCE BREAK

### A closer look on the number of imputed datasets



#### 8

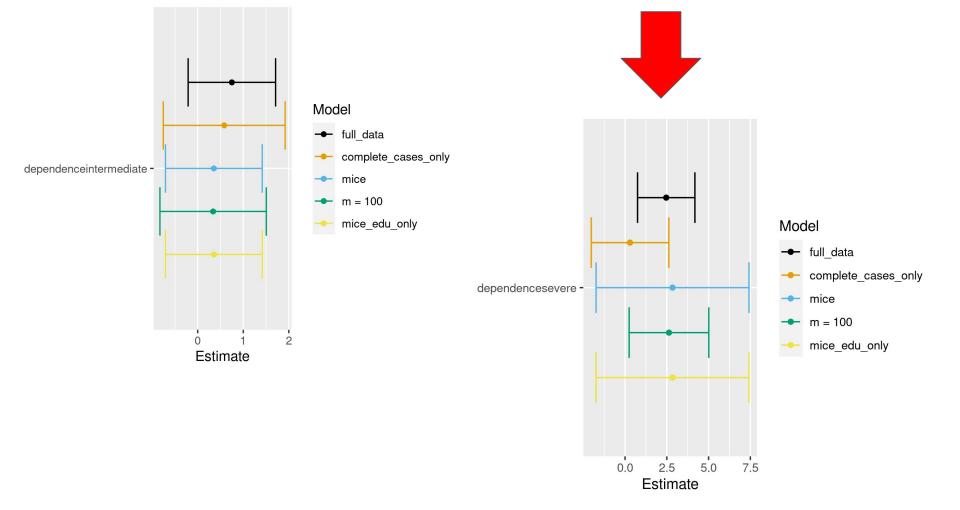
#### A closer look at the choice of variables to use in the imputation model



## Other things



## This one is happy! >:(



## Conclusions so far

- Variables that we believe are MCAR:
  - Drinks, age, education
- Variables that we believe are MAR (include depending on which other variables):
  - dependence
- Variables that we believe are MNAR (include guess on mechanism):  $_{\circ}$
- Other points:
  - 0