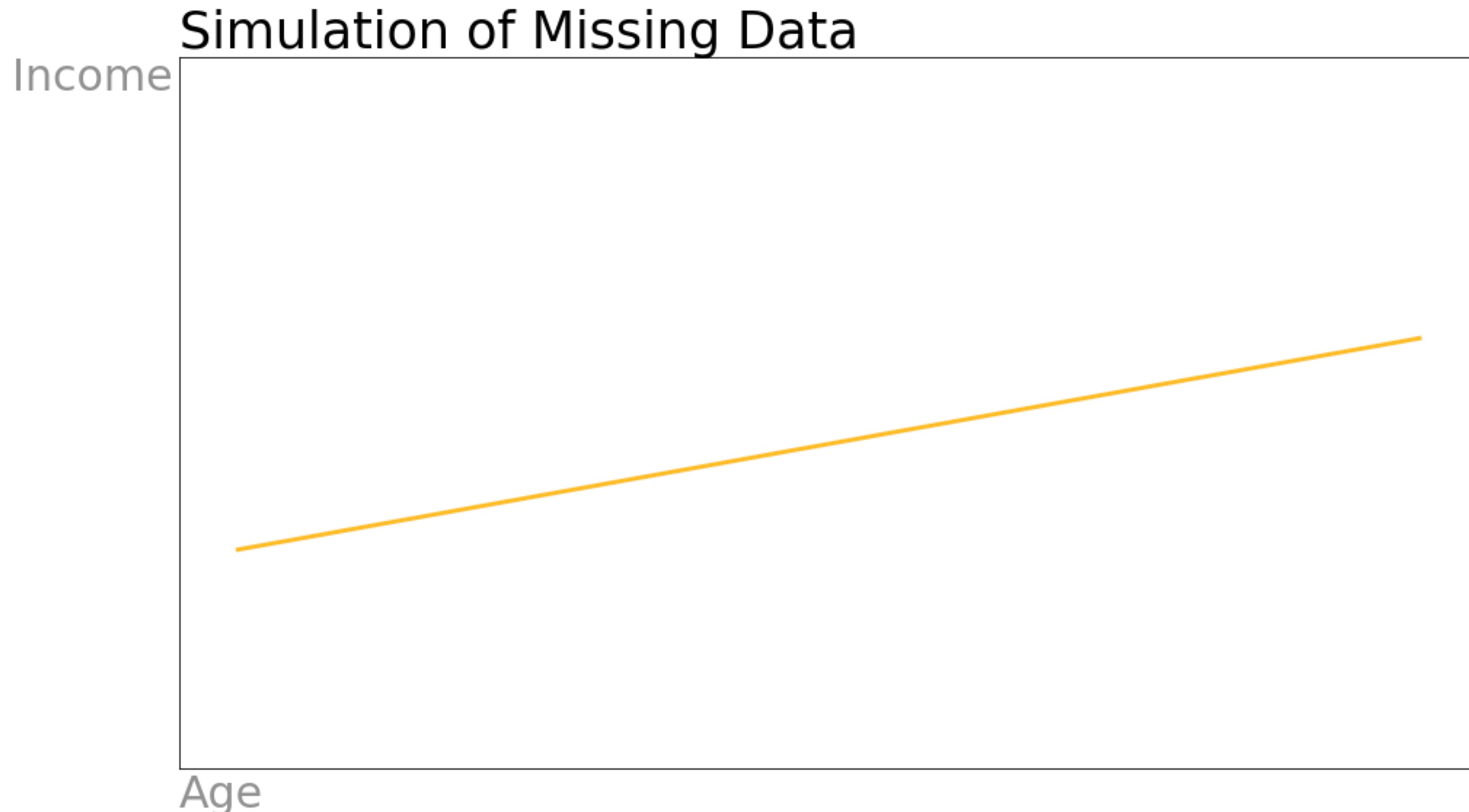


# DATA VISUALIZATION: From Square One to Interactivity

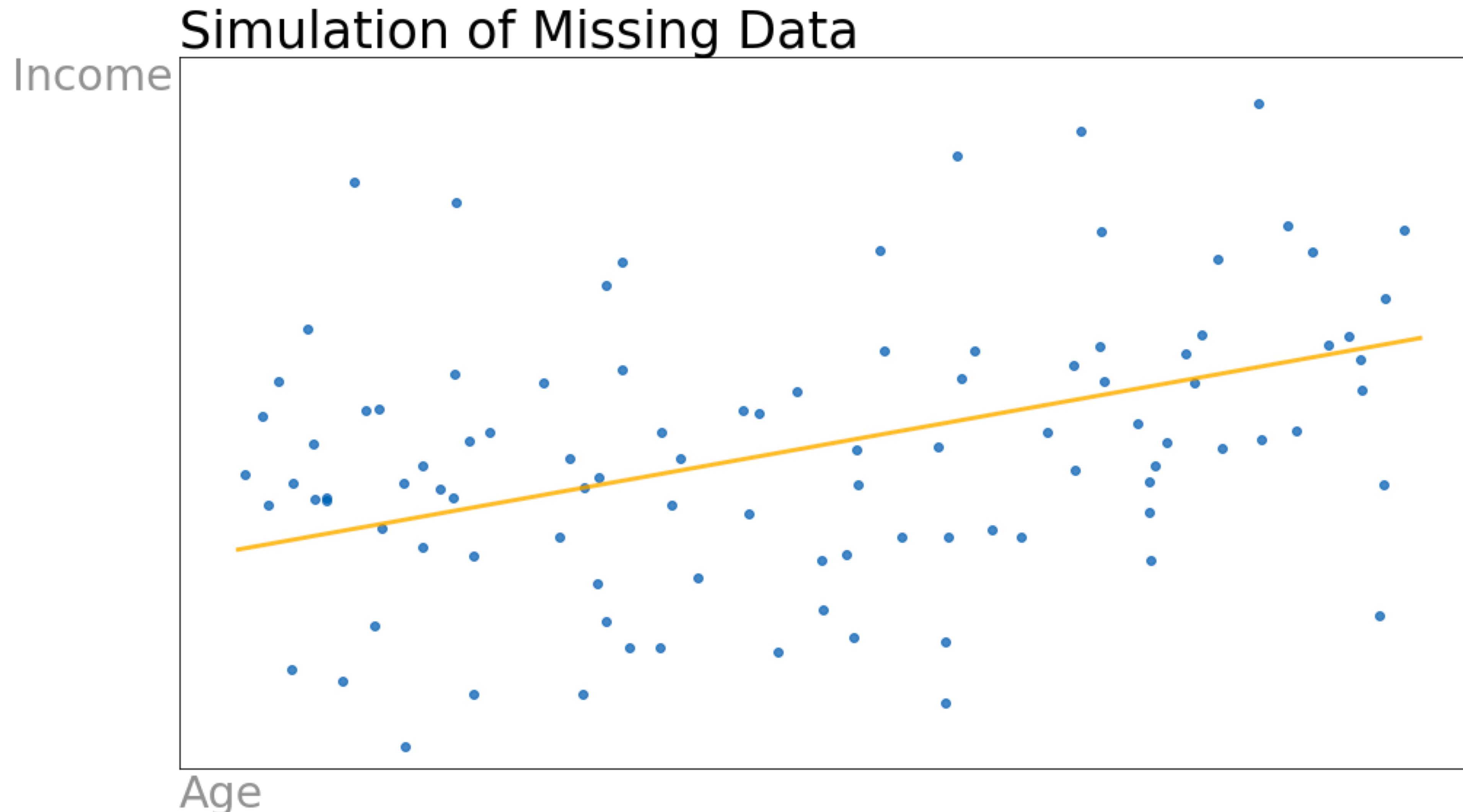
[https://github.com/matthewbrems/  
odsc-west-2018-visualization](https://github.com/matthewbrems/odsc-west-2018-visualization)



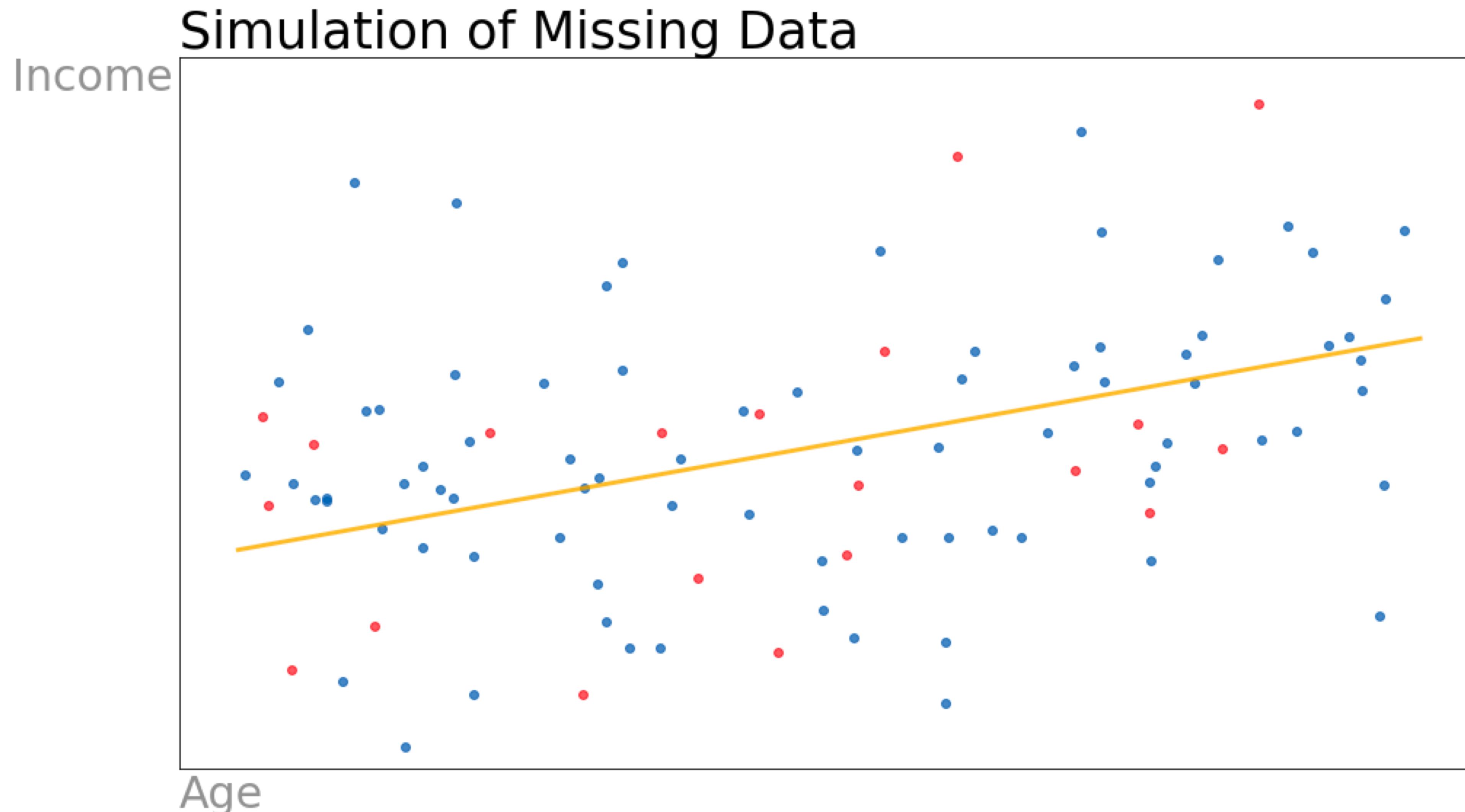
# How big of a problem is missing data?



# How big of a problem is missing data?

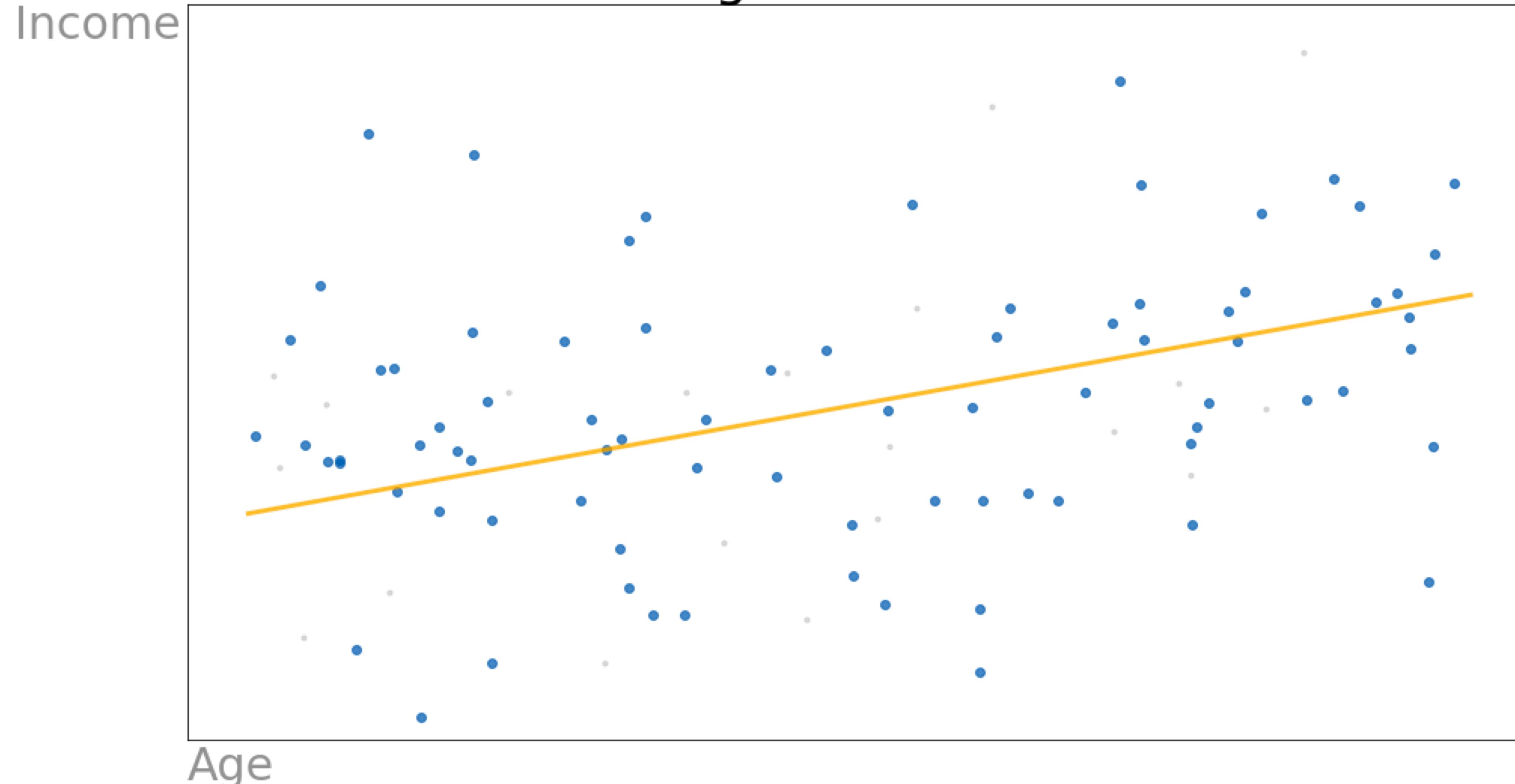


# How big of a problem is missing data?

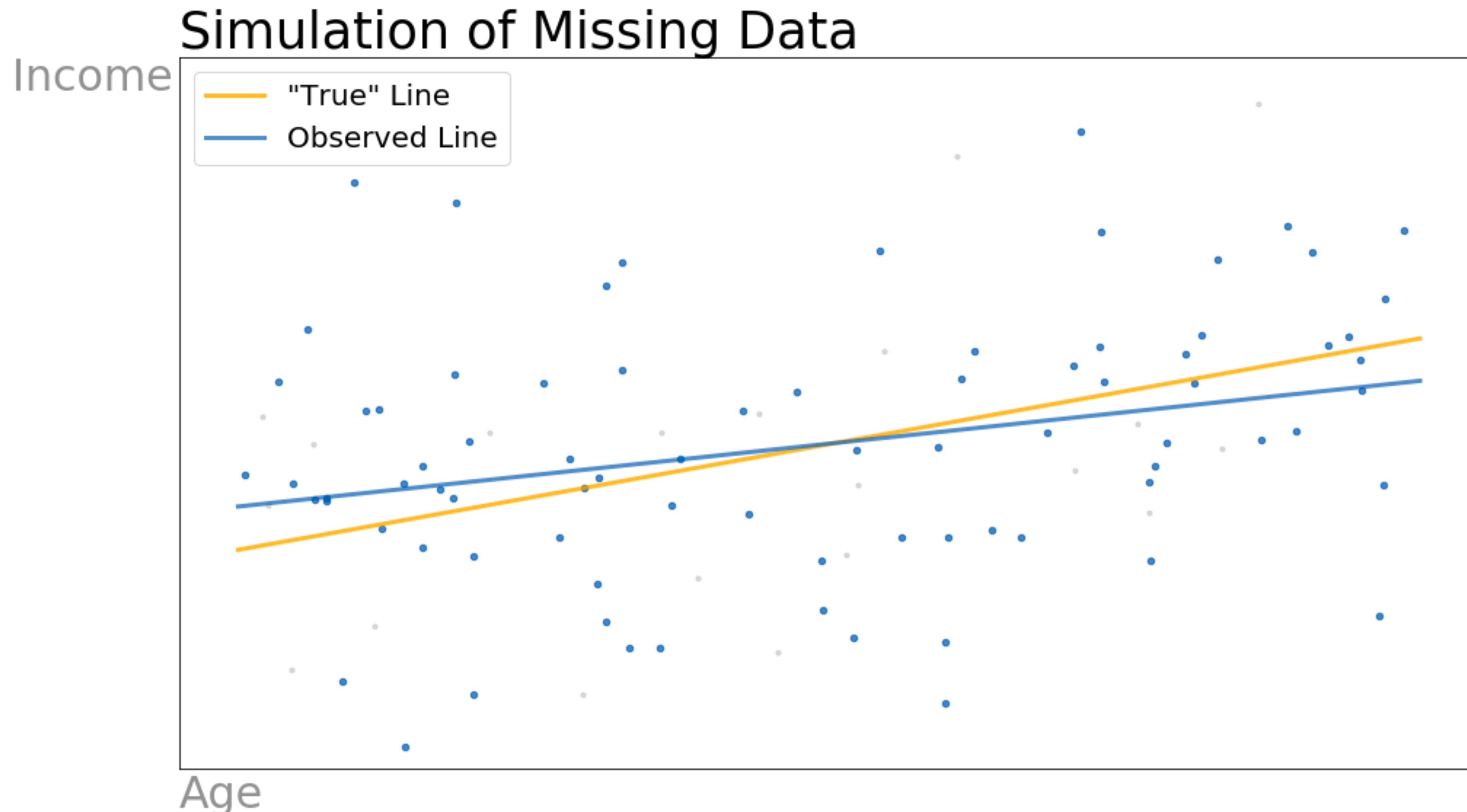


# How big of a problem is missing data?

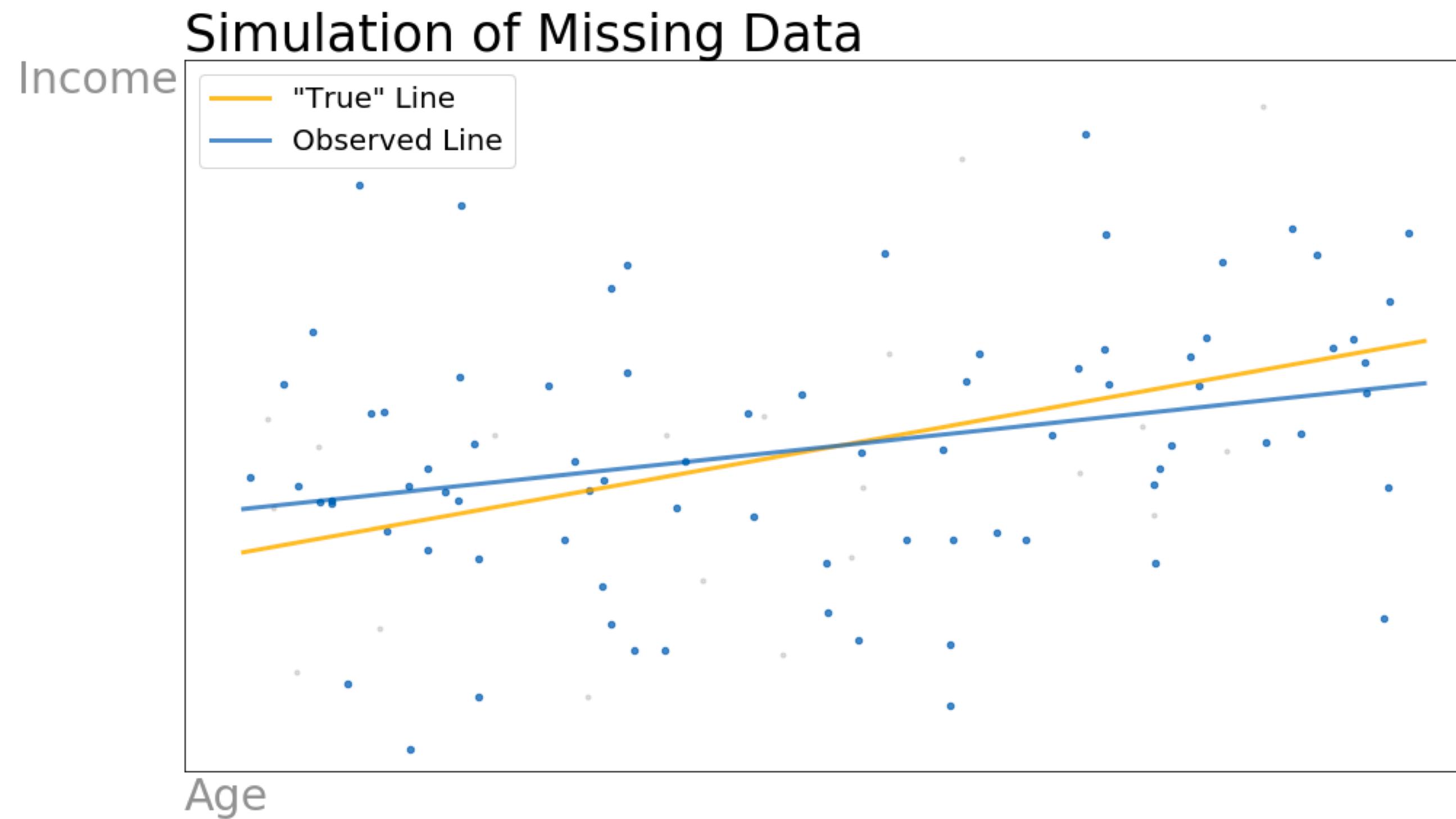
## Simulation of Missing Data



# How big of a problem is missing data?



# How big of a problem is missing data?



- 20% of observations are missing completely at random.
- True slope: 750
- Observed slope: 445
- Percent change: 40.7%
- True  $y$ -intercept\*: 15,000
- Observed  $y$ -intercept\*: 27,229
- Percent change: 81.5%

# Thank you!

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