

GR5702

Exploratory Data Analysis and Visualization

Prof. Joyce Robbins

April 18, 2017

Steve Ballmer Serves Up a Fascinating Data Trove



Andrew Ross Sorkin
DEALBOOK APRIL 17, 2017



Steven Ballmer in 2014. The former Microsoft chief executive is unveiling a website Tuesday aimed at giving United States citizens a transparent look at government budgets. Stephen Brashears/Getty Images

RELATED COVERAGE



Steven A. Ballmer Speaks Loudly and Carries a Big Wallet APRIL 21, 2015



Mark Penn's Stagwell Group Will Acquire SKDKnickerbocker OCT. 8, 2015



**BITS BLOG
Steve Ballmer Buys Into Twitter**
OCT. 16, 2015



**SPORTS BUSINESS
Steven Ballmer, Clippers' Top Fan, Is Really Invested in Them (for Billions)**
MARCH 4, 2016

<https://www.usafacts.org/>

Aircraft Carrier Wasn't Sailing to Deter North Korea, as U.S. Suggested



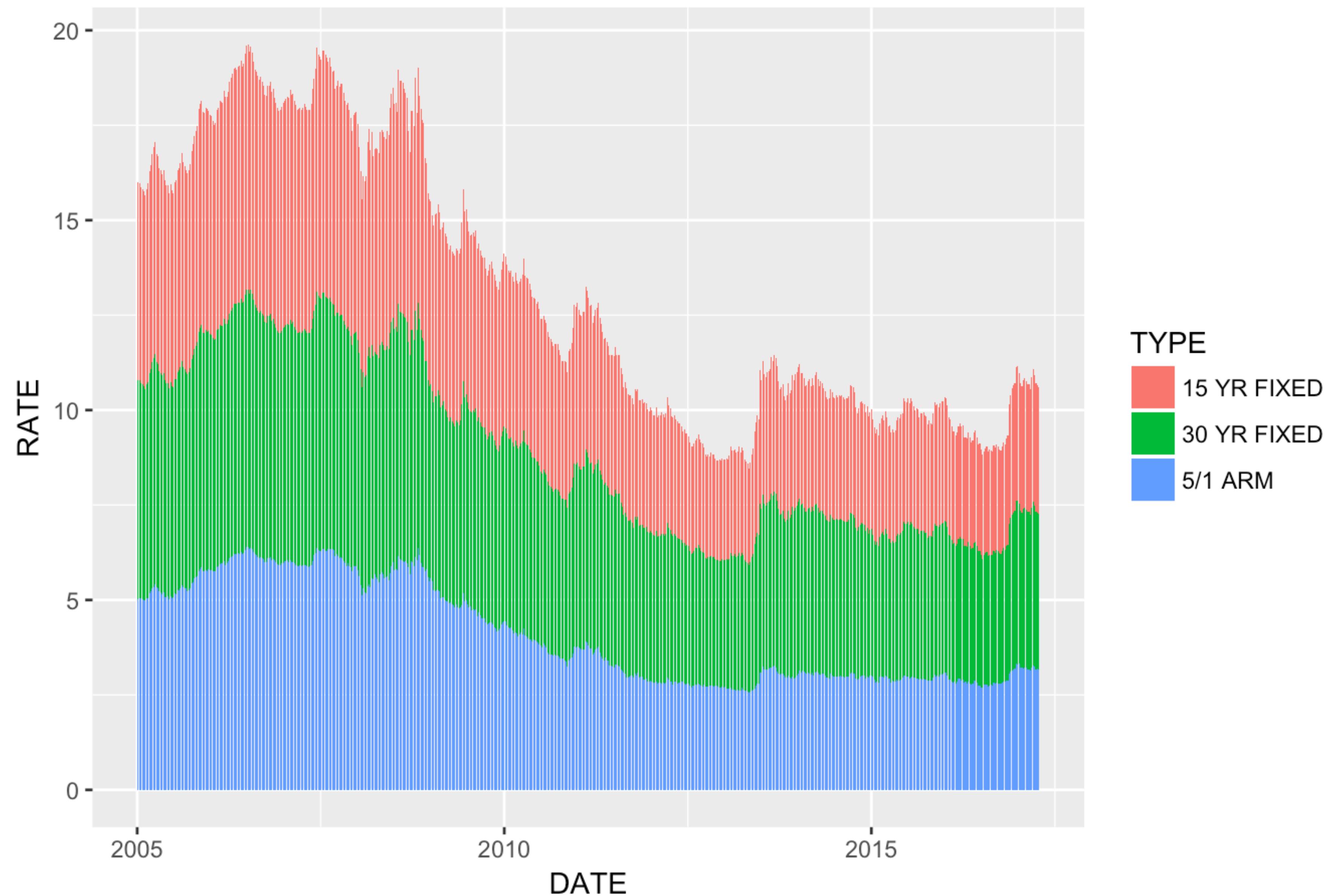
By The New York Times



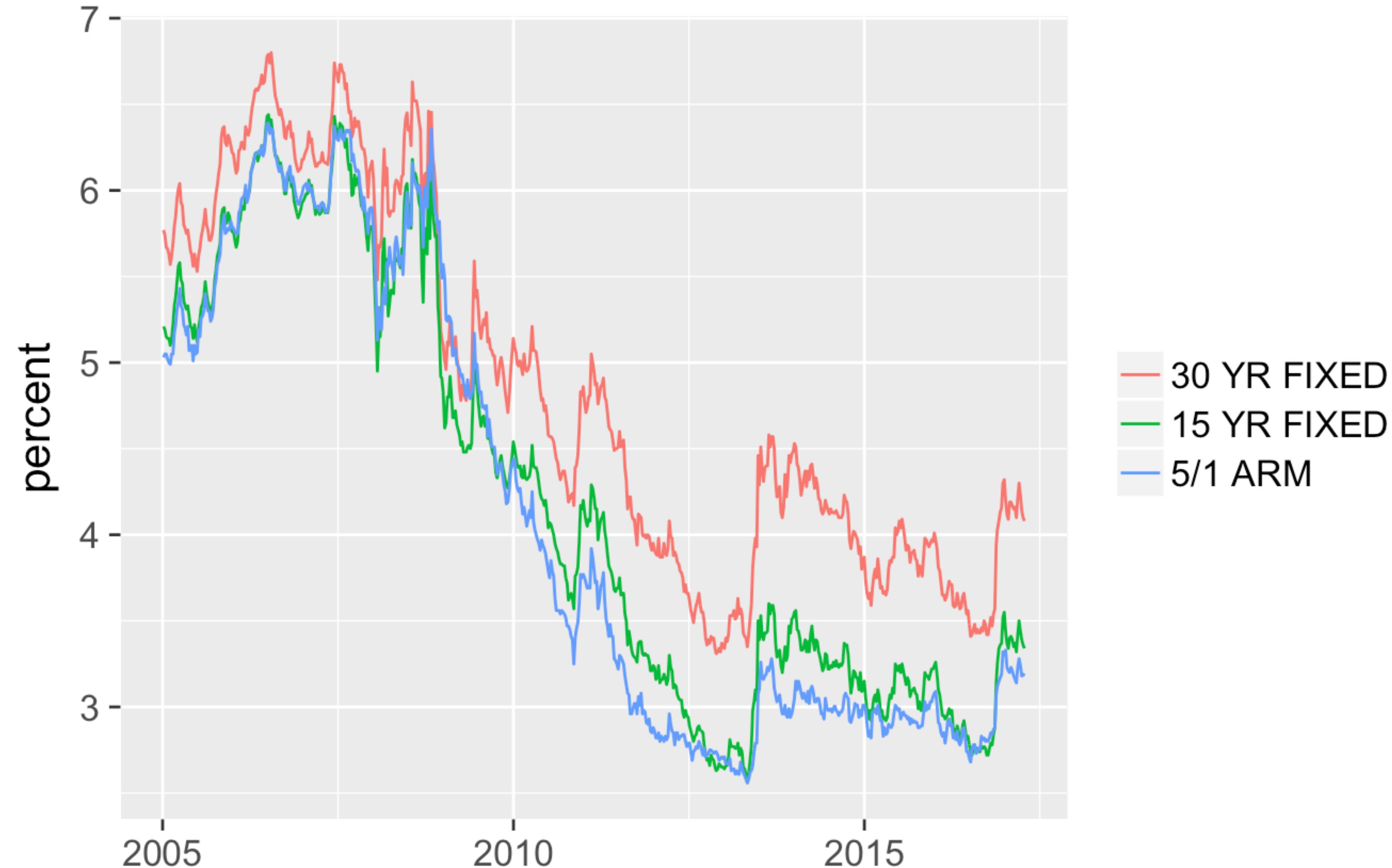


EDA: Time

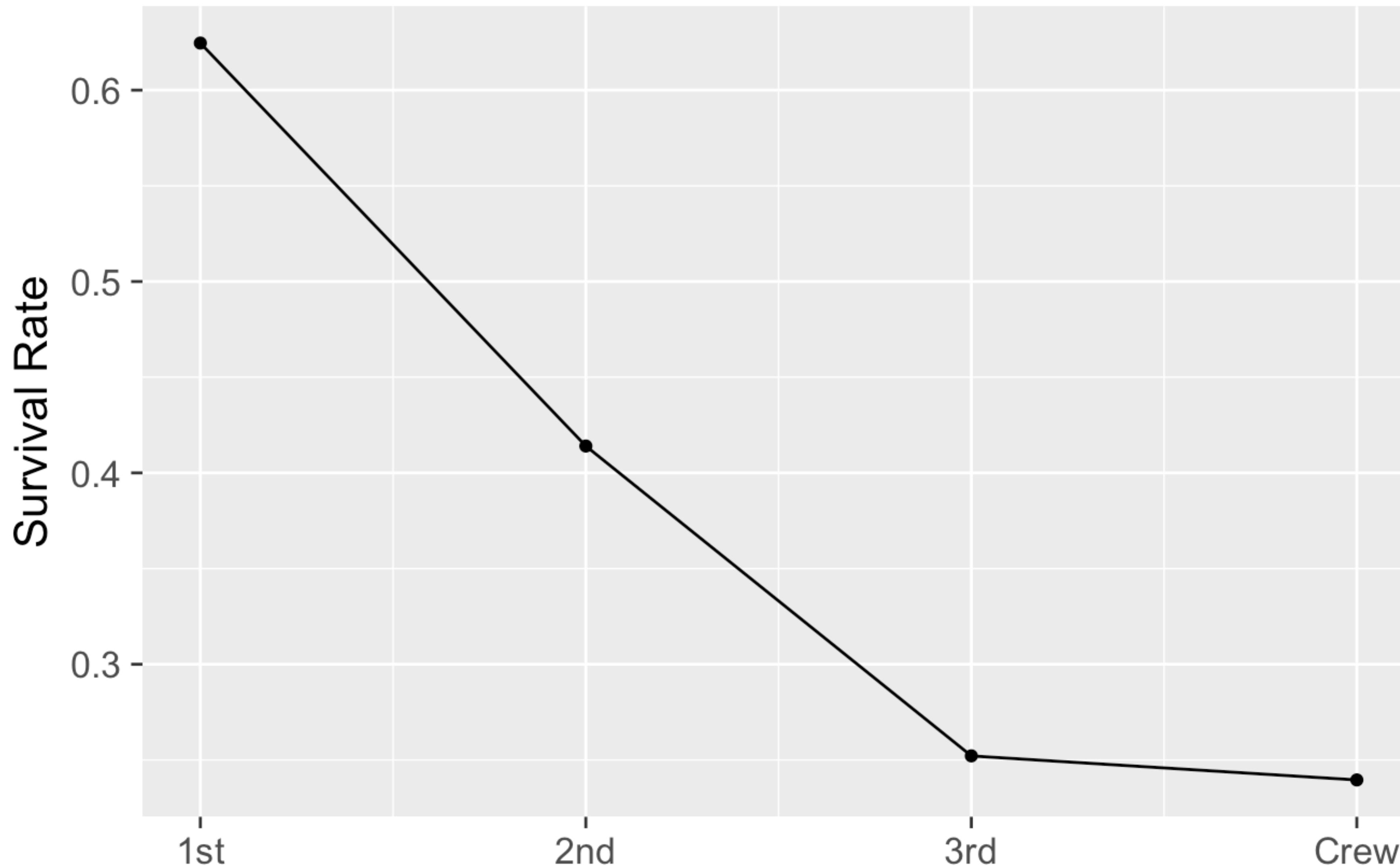
U.S. Mortgage Rates



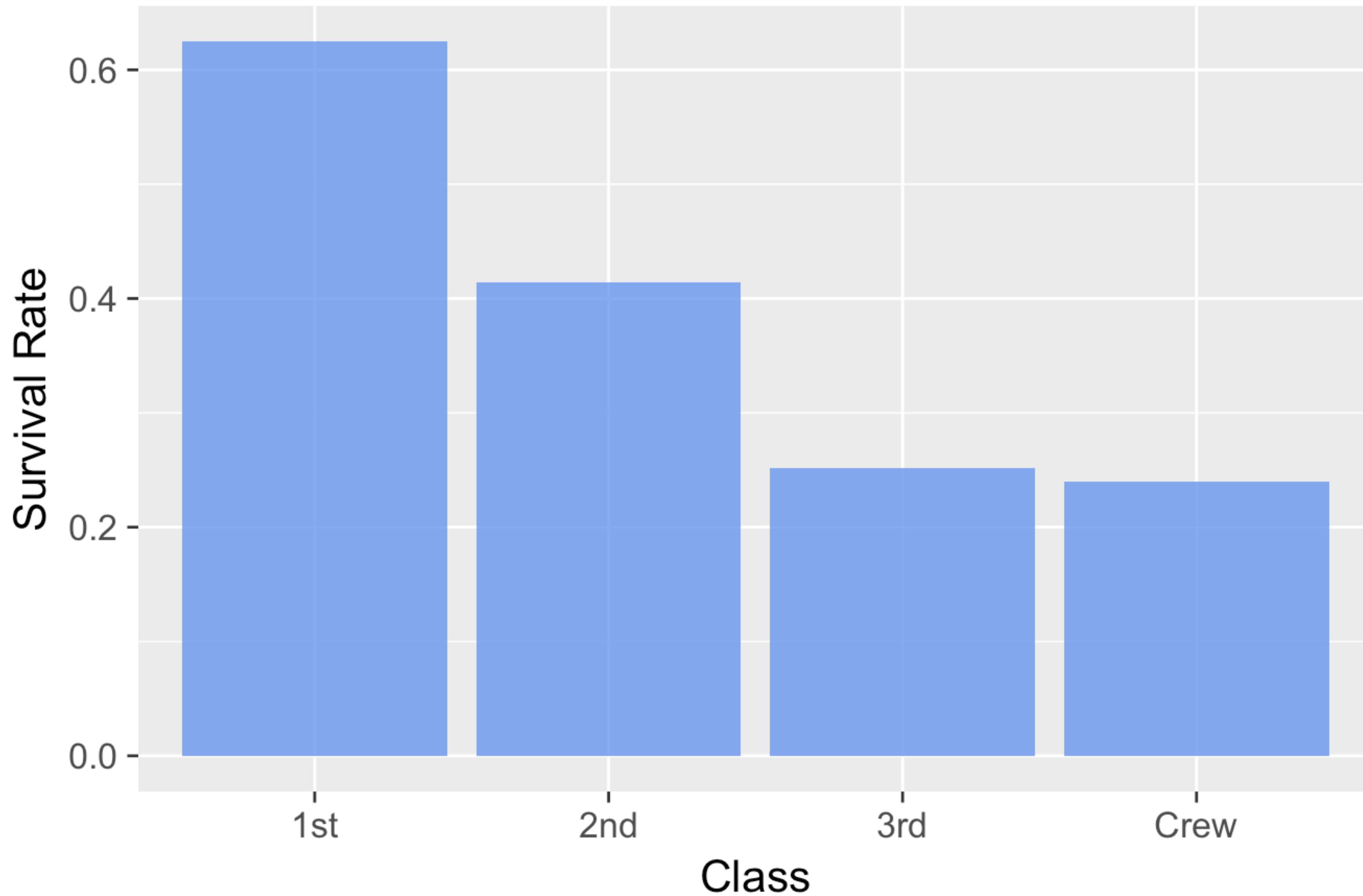
U.S. Mortgage Rates



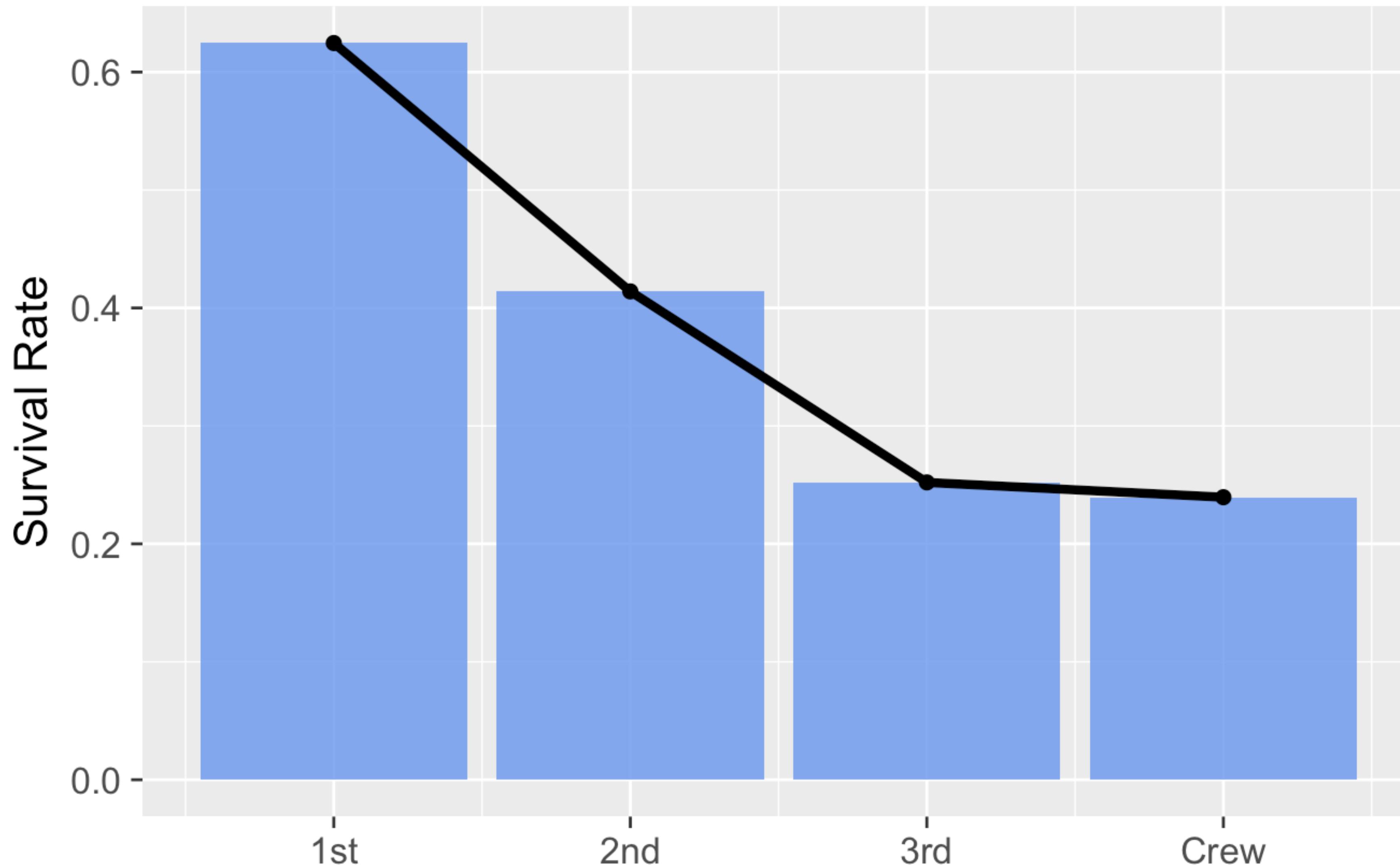
Titanic Survival Rates by Class



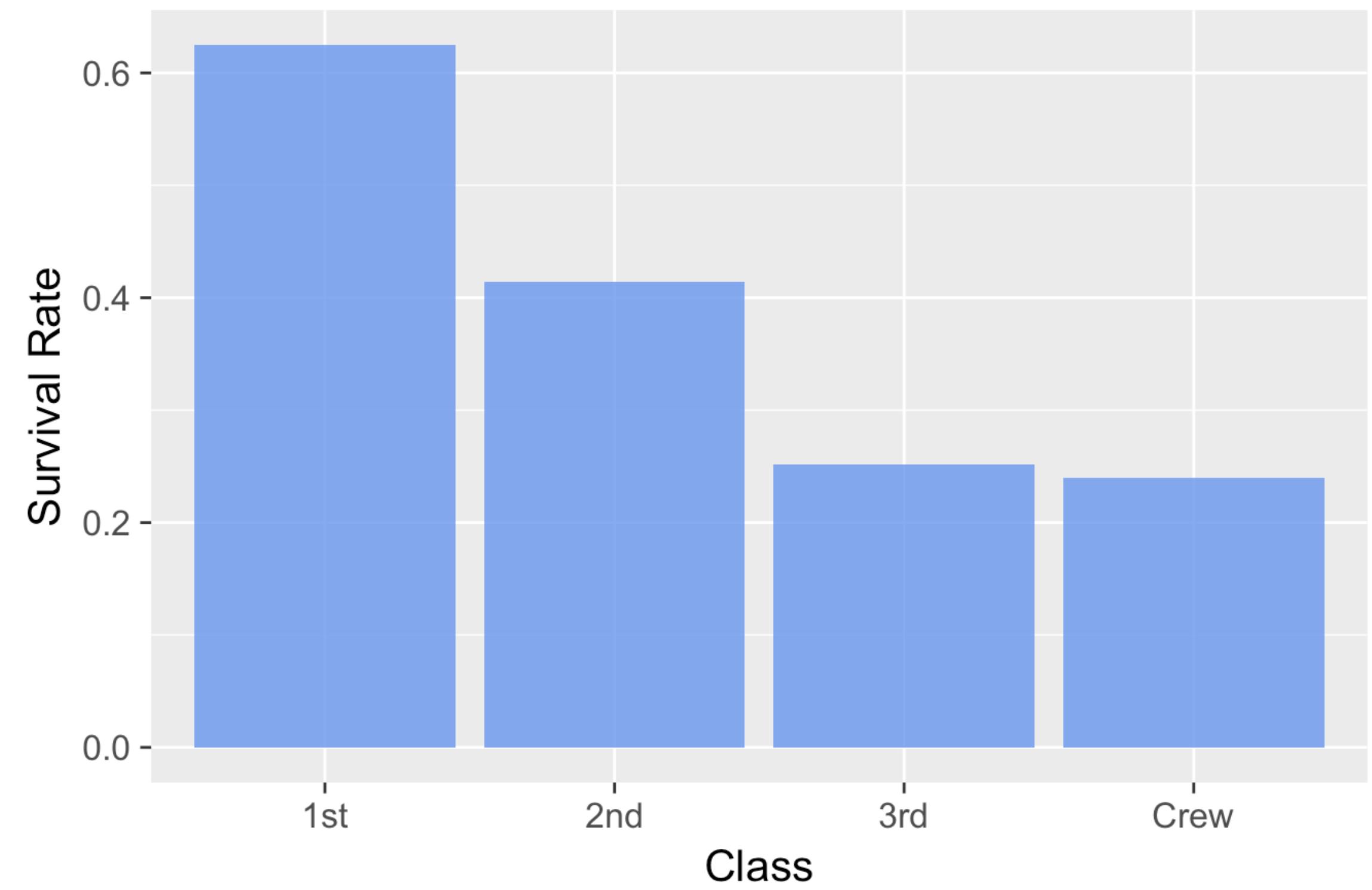
Titanic Survival Rates by Class



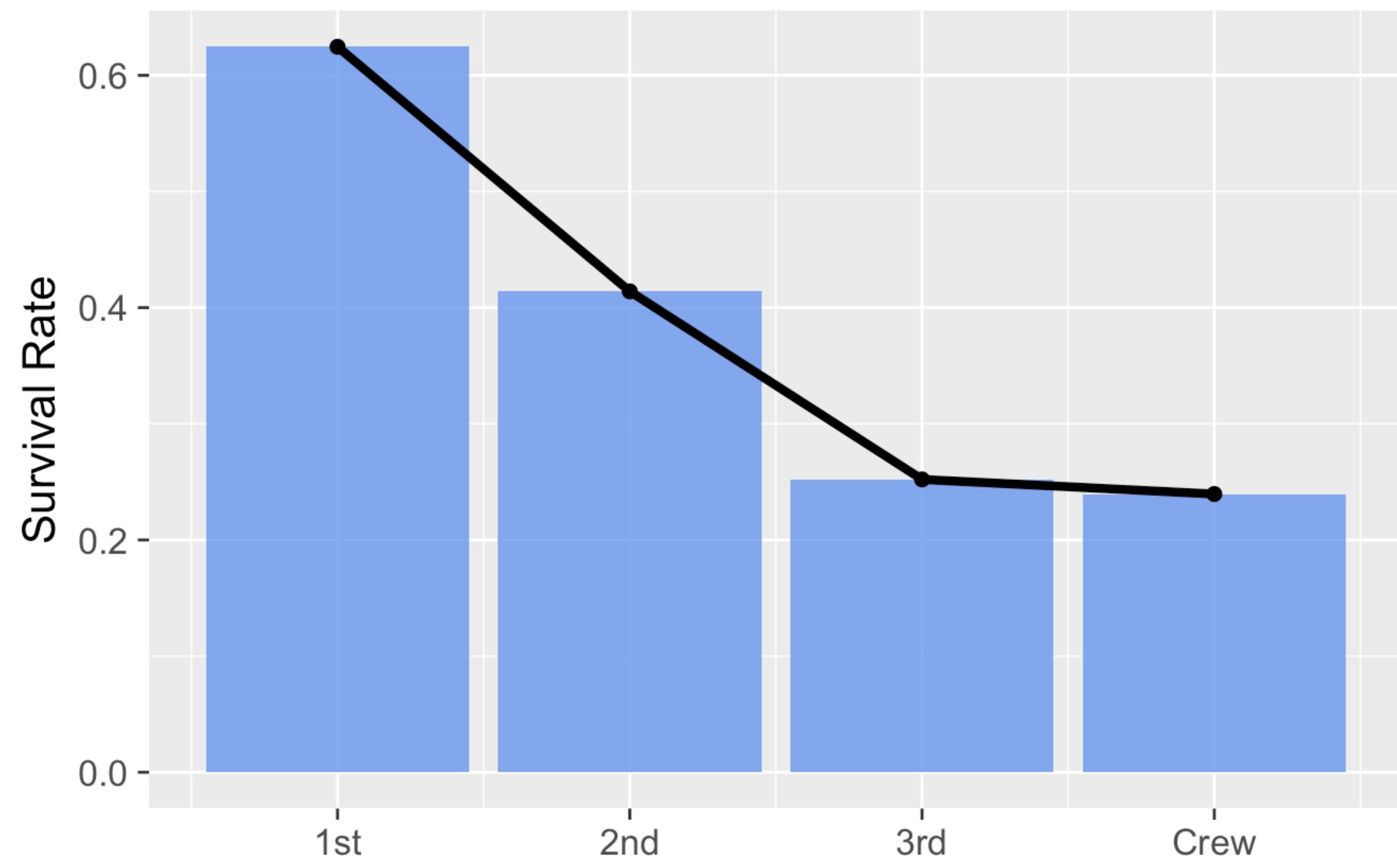
Titanic Survival Rates by Class



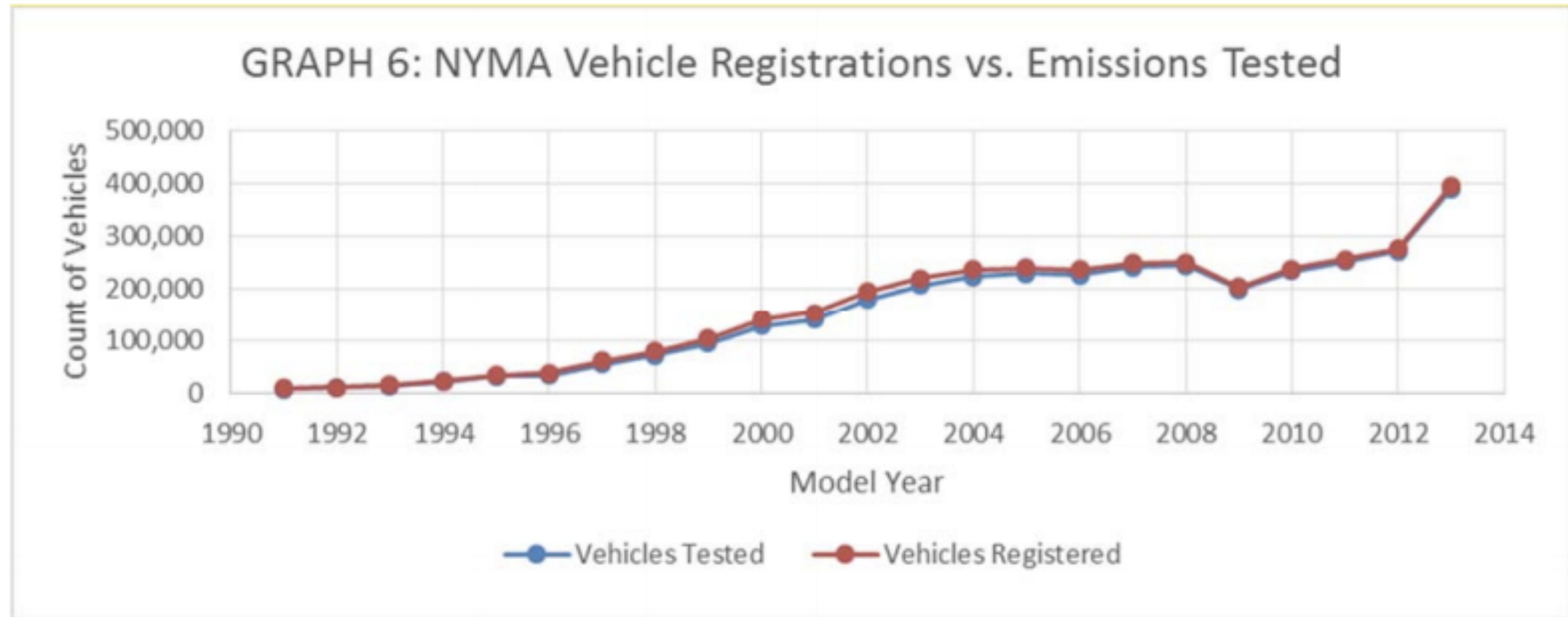
Titanic Survival Rates by Class



Titanic Survival Rates by Class



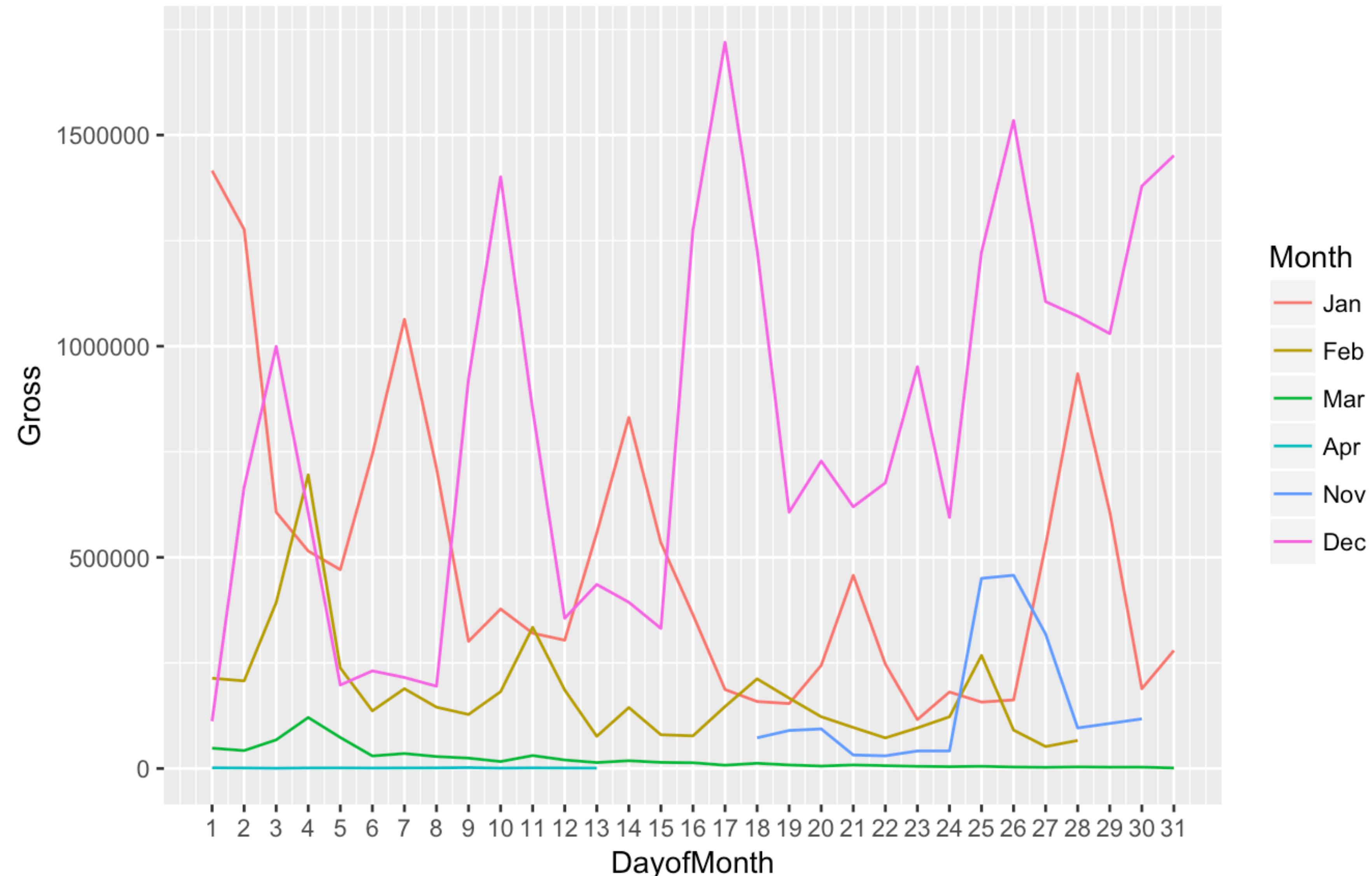
NYS 2015 Annual Inspection/Maintenance Report



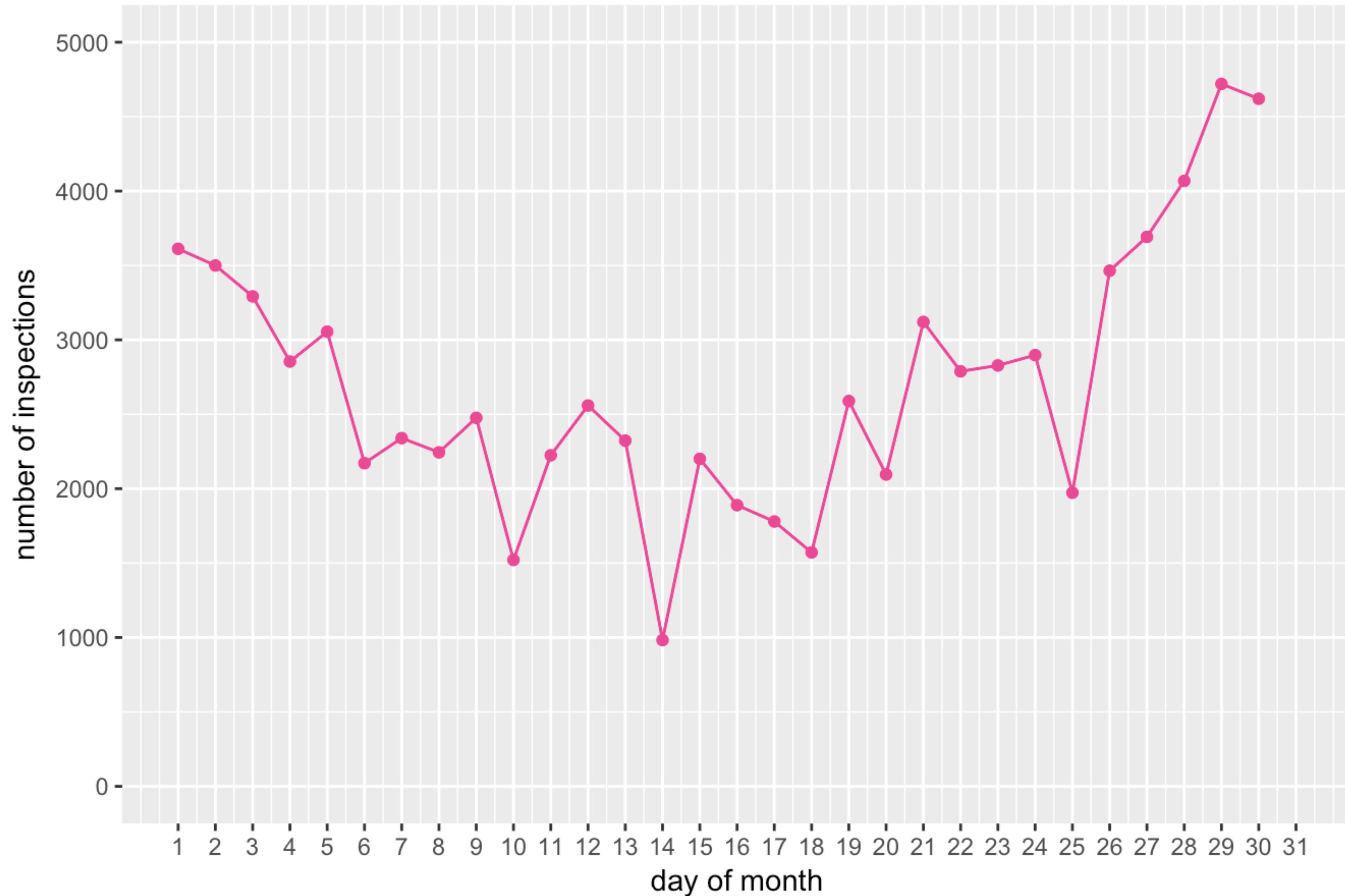
Day of Month

Manchester by the Sea

Daily Gross, United States



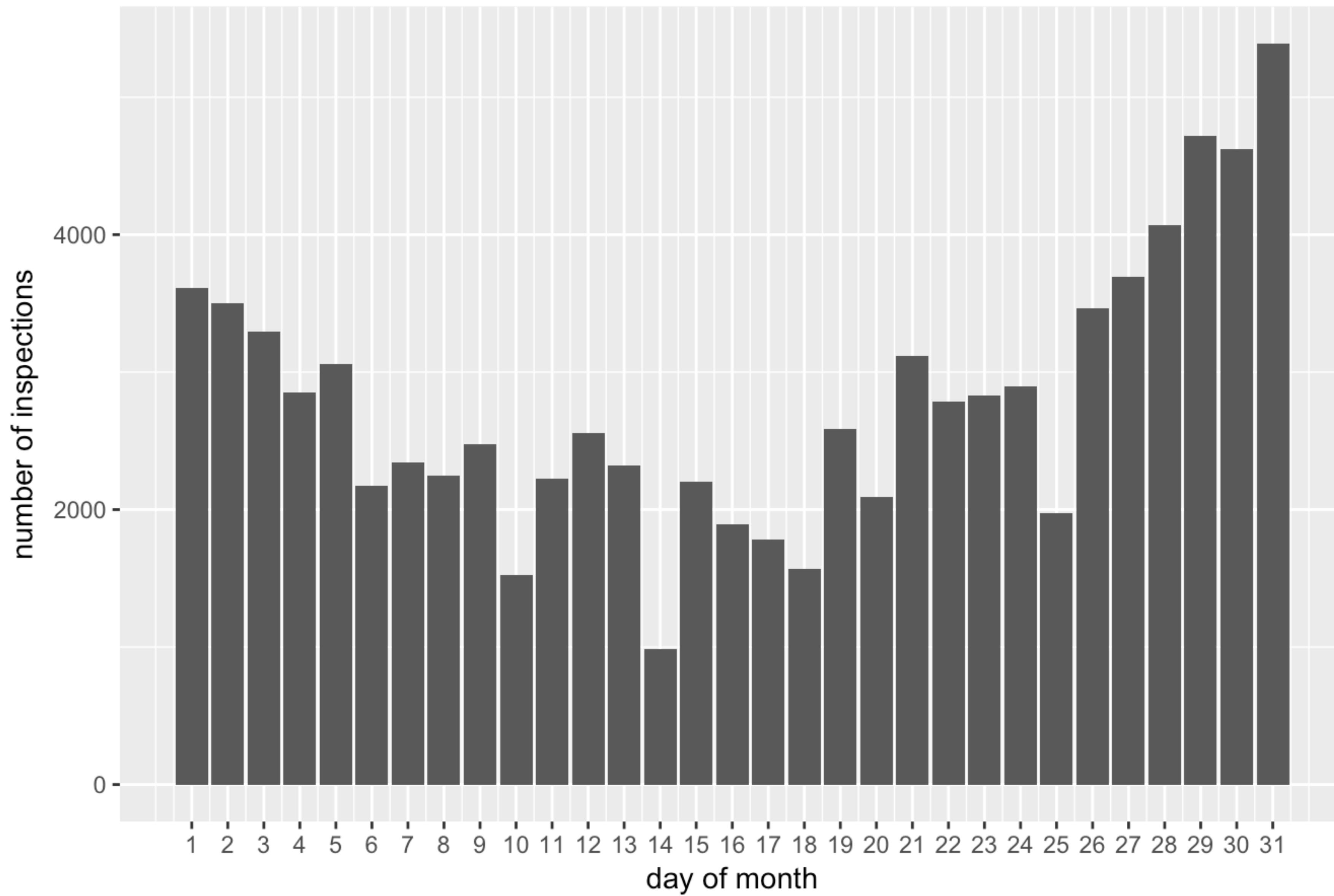
Average Motor Vehicle Inspections per Day



Source:

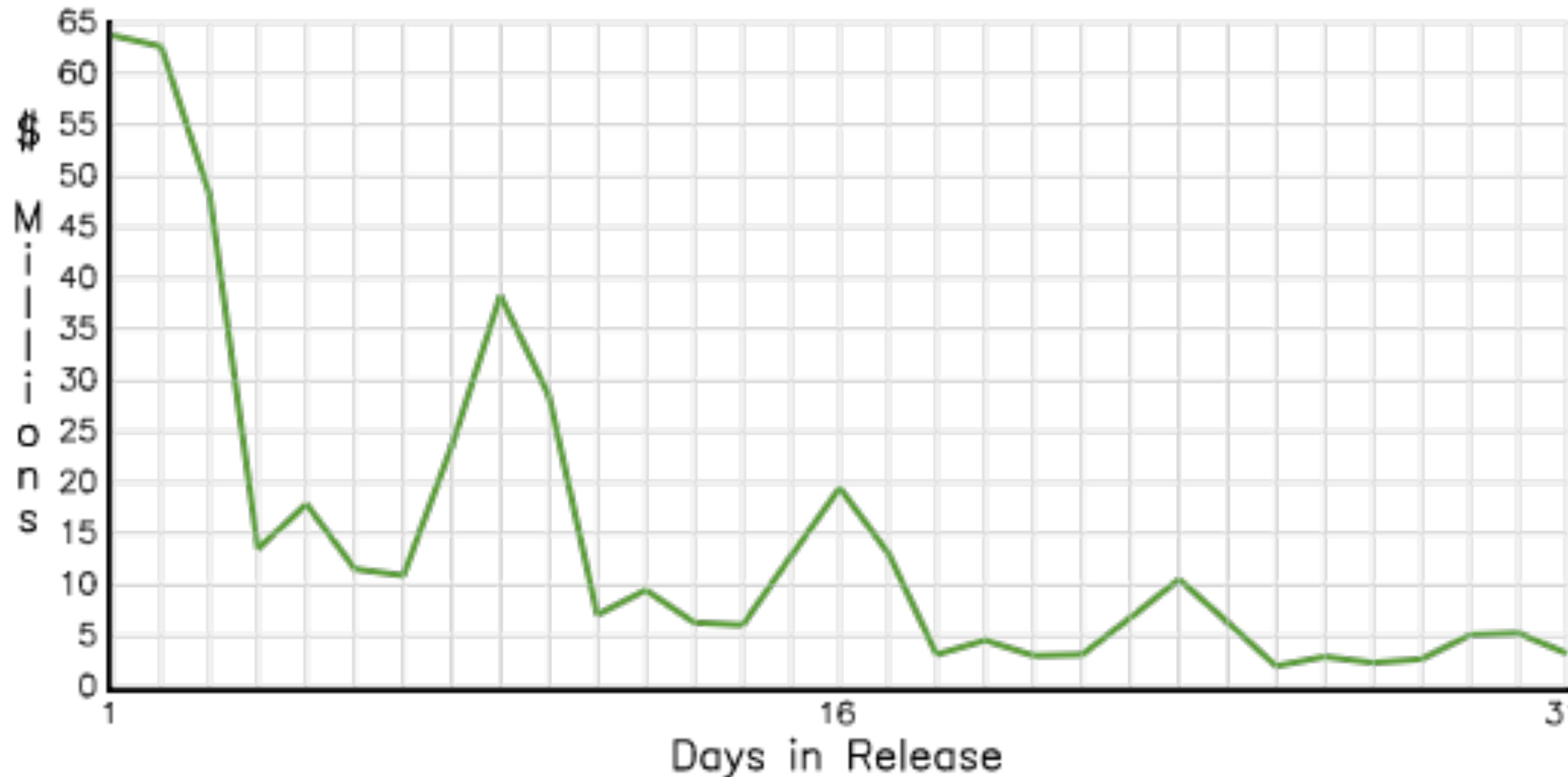
```
day <- 1:31
number <- 10*(day - 14)^2 + 2000 + rnorm(1:31, 0, 400)
```

Average Motor Vehicle Inspections per Day

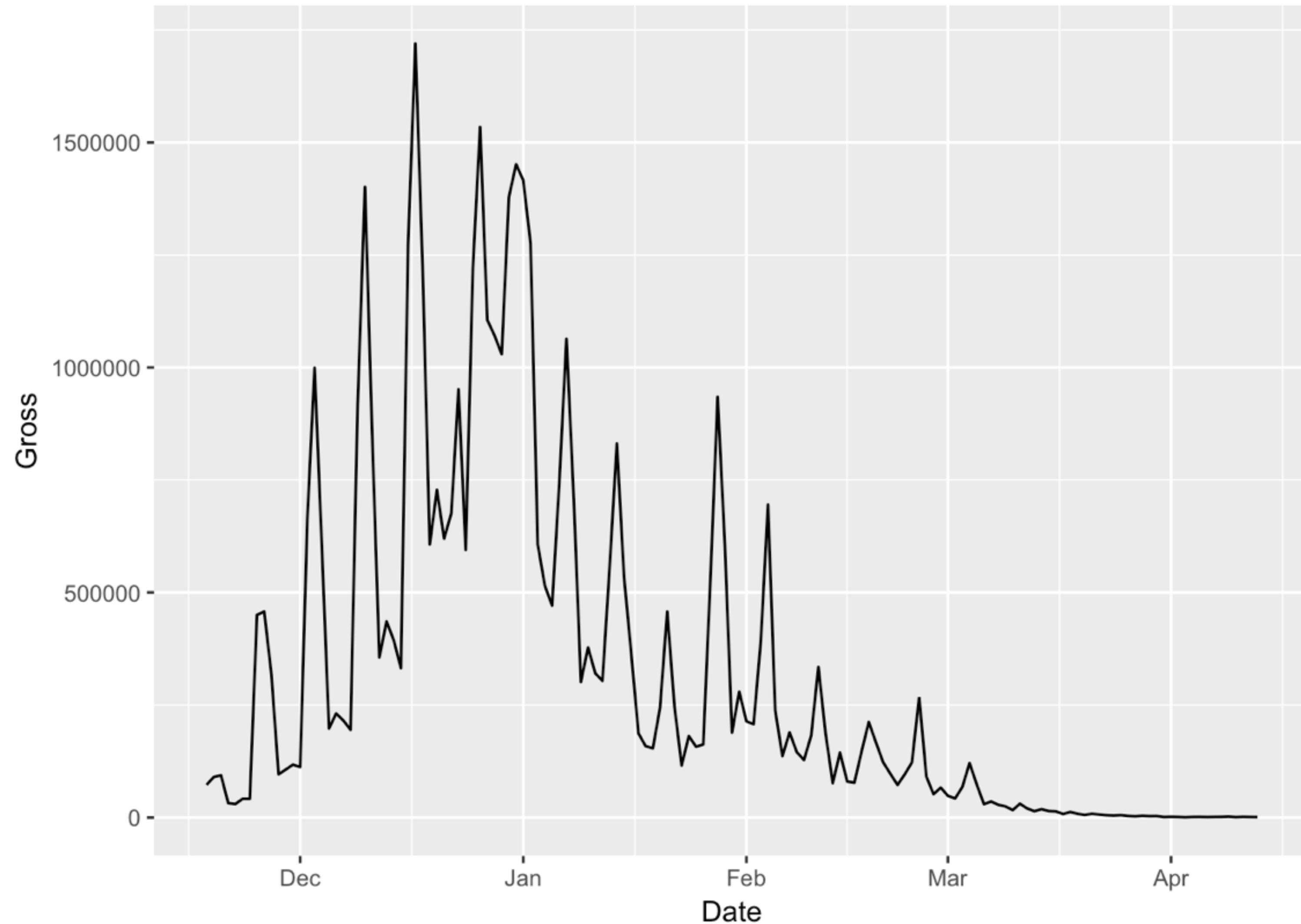


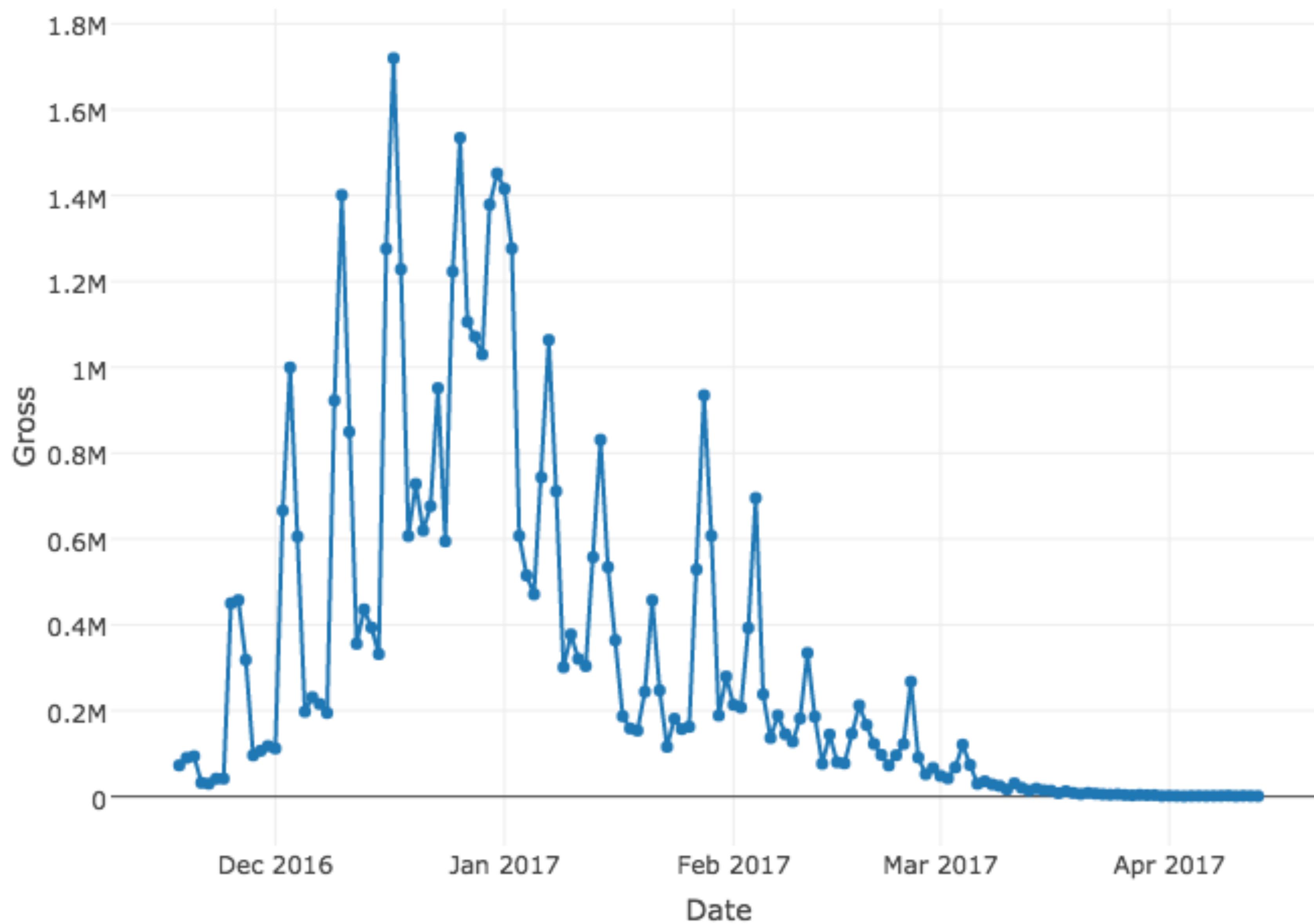
Beauty and the Beast

Daily Box Office



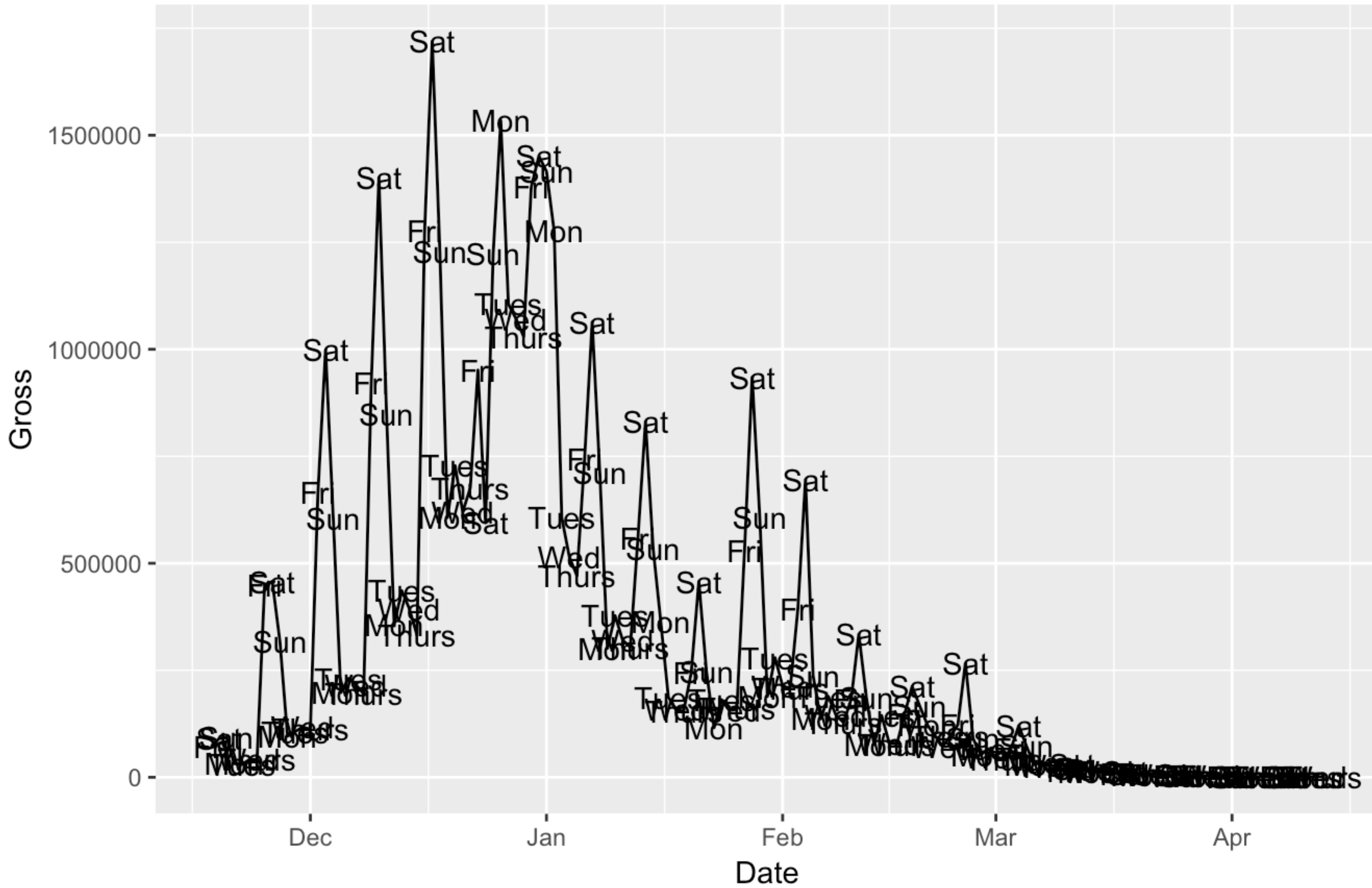
"Manchester by the Sea", Daily Box Office Gross, U.S.





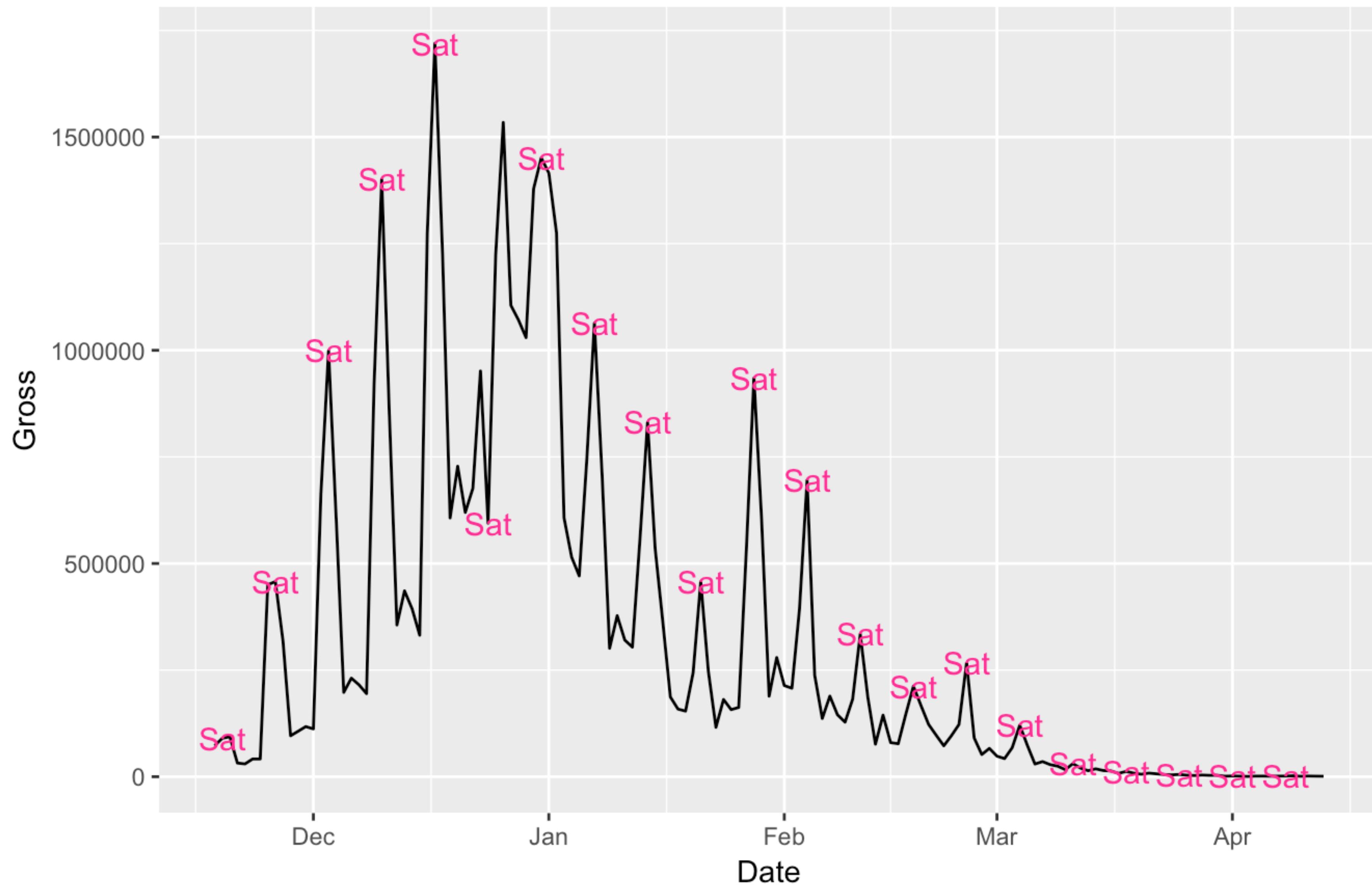
Manchester by the Sea

Daily Gross, United States



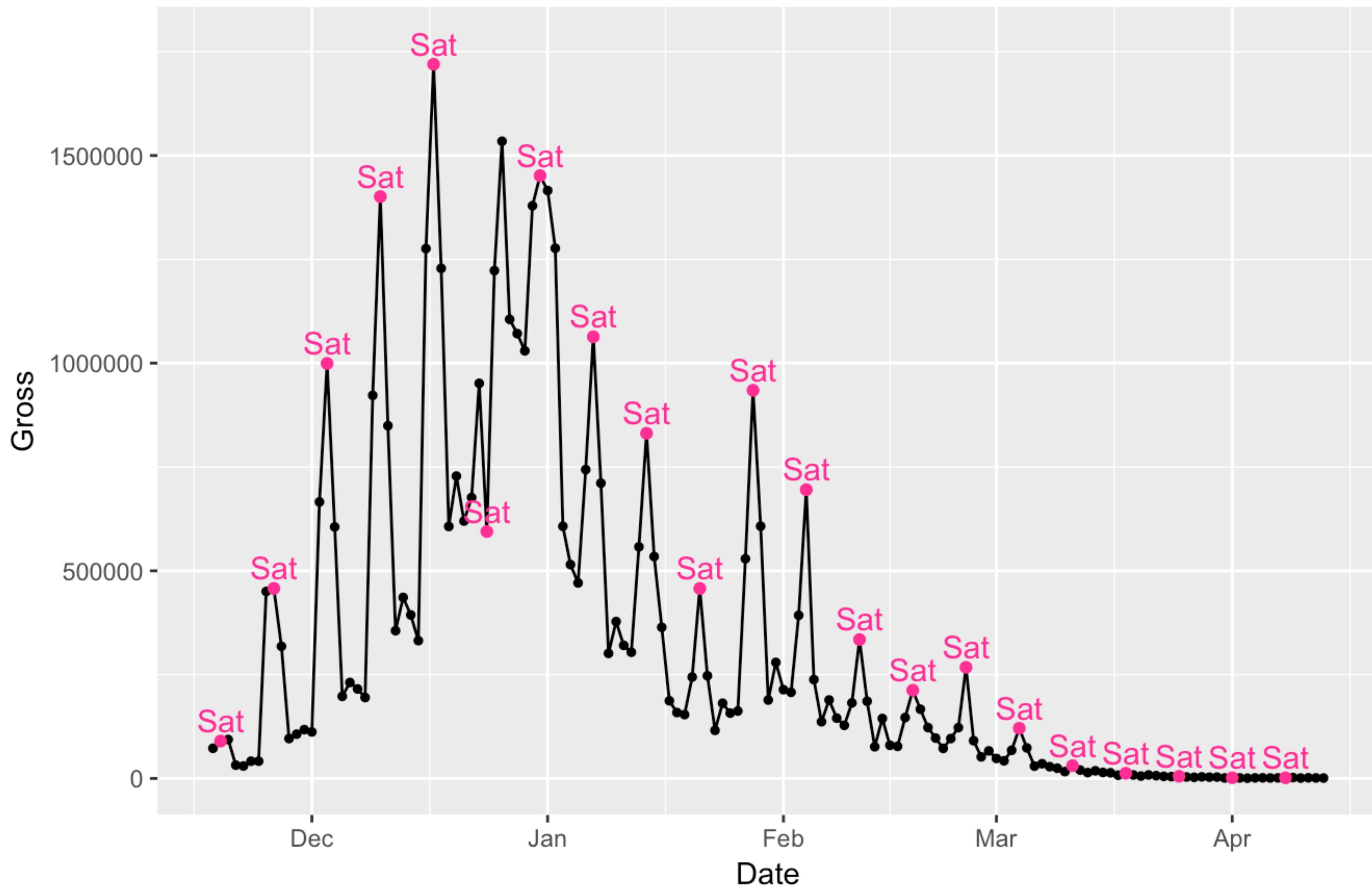
Manchester by the Sea

Daily Gross, United States

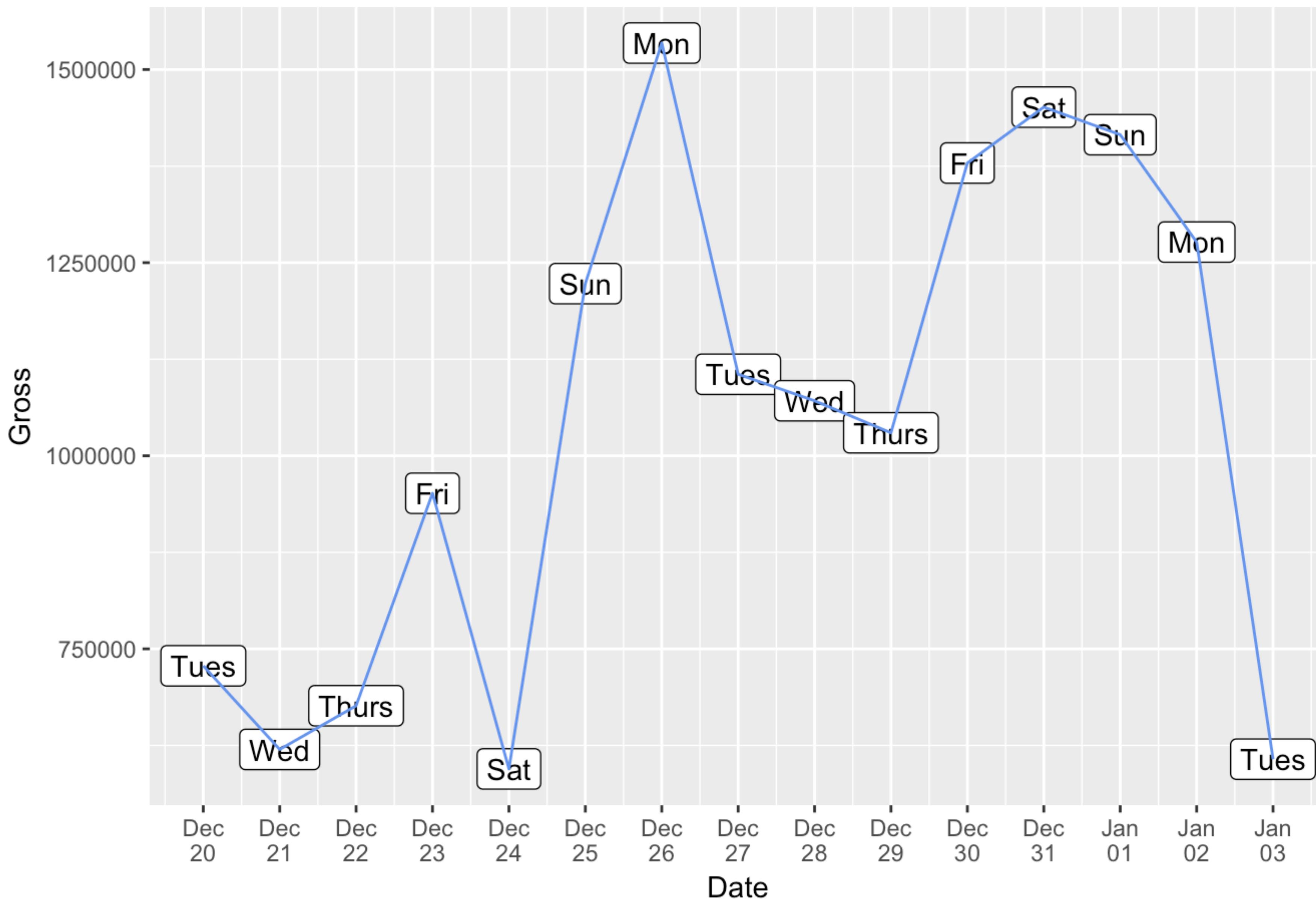


Manchester by the Sea

Daily Gross, United States

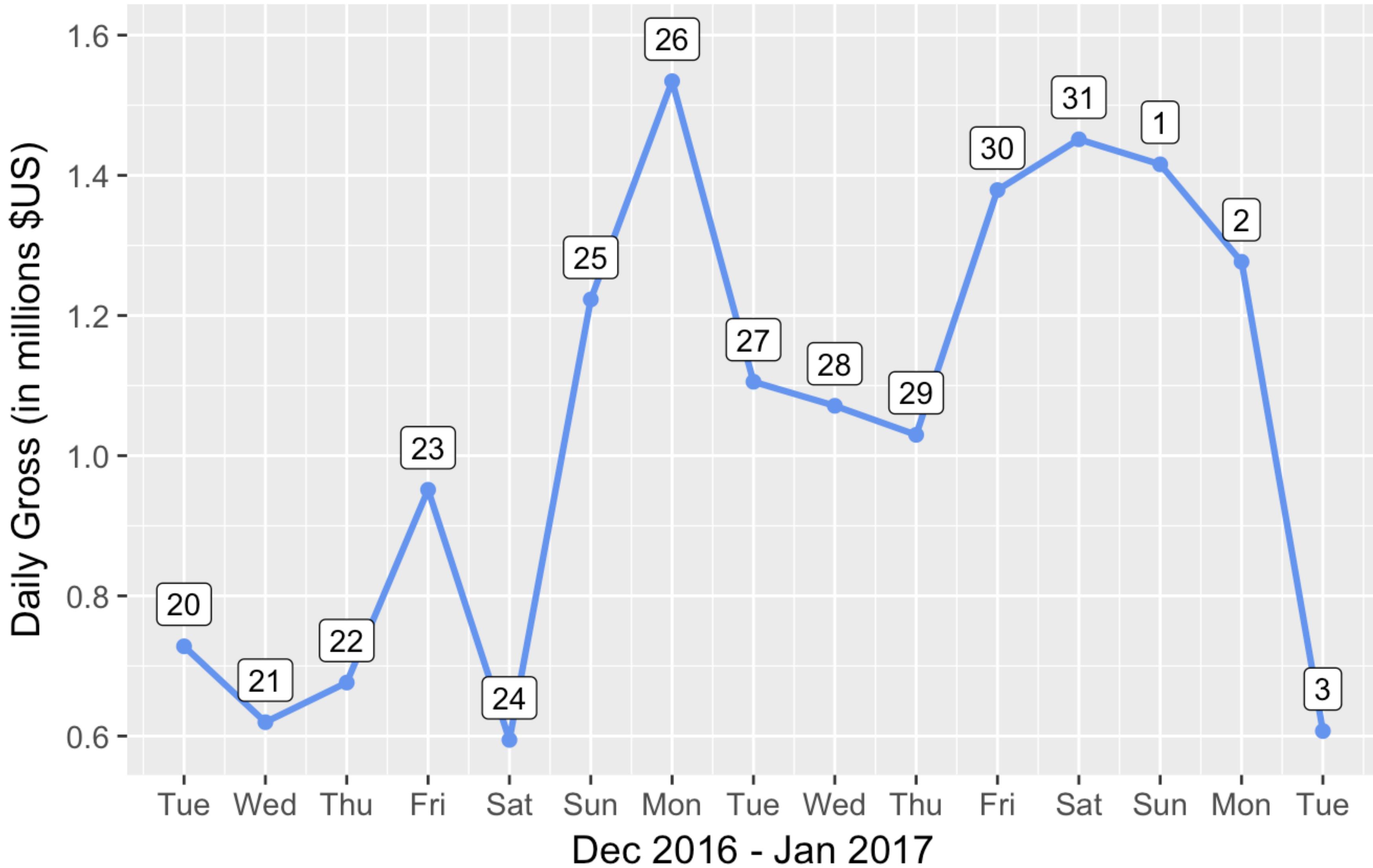


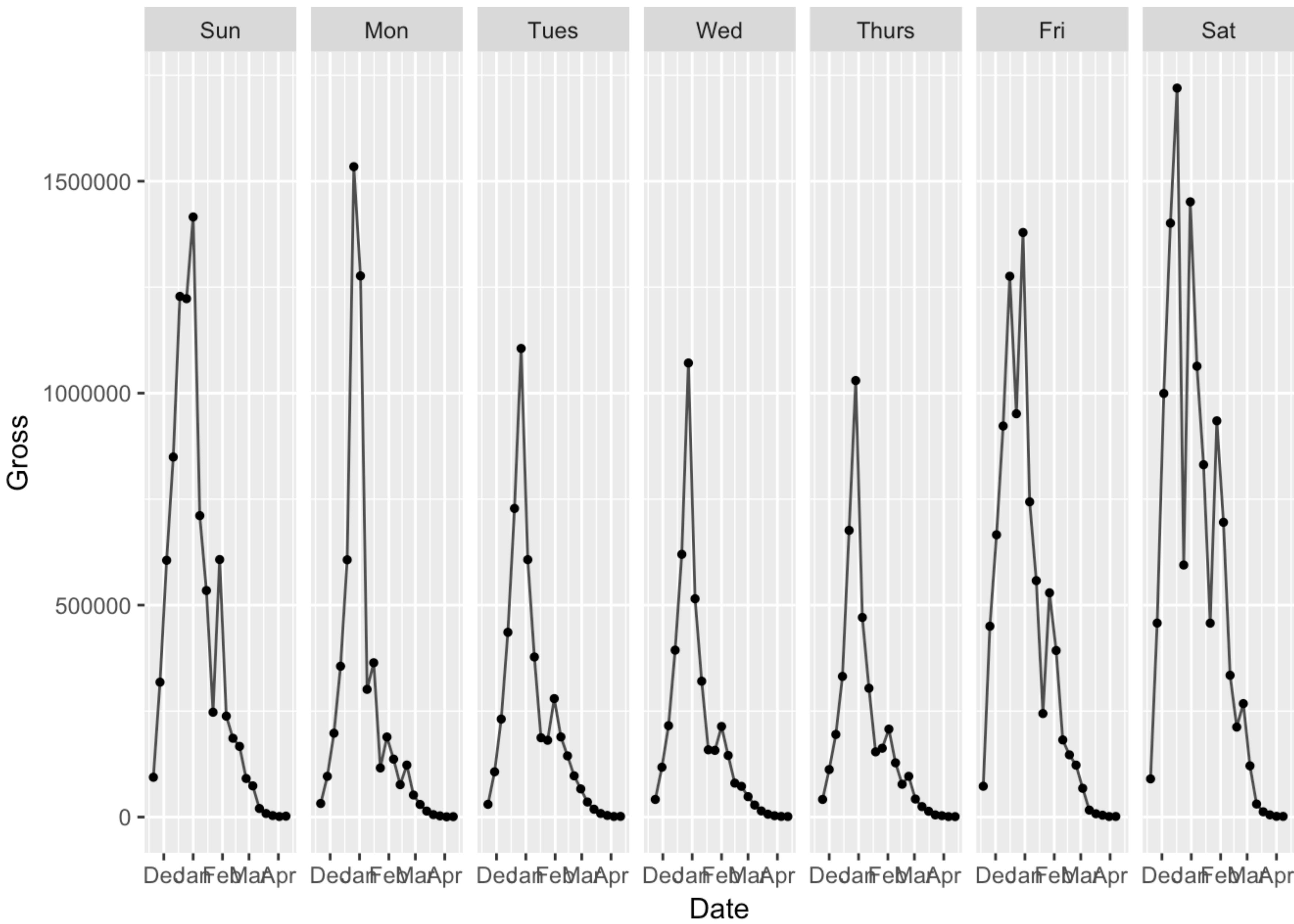
Chistmas Week

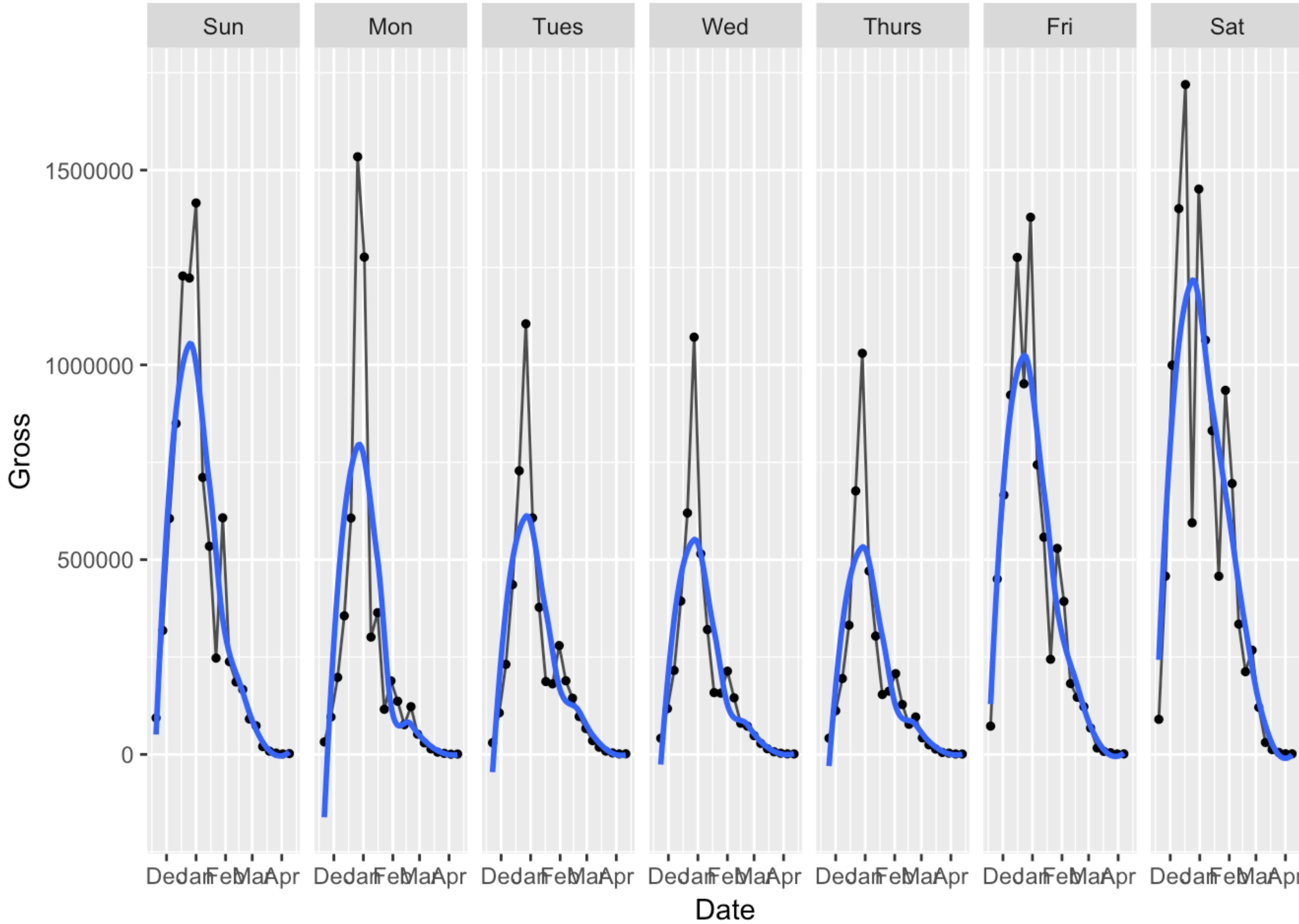


Manchester by the Sea

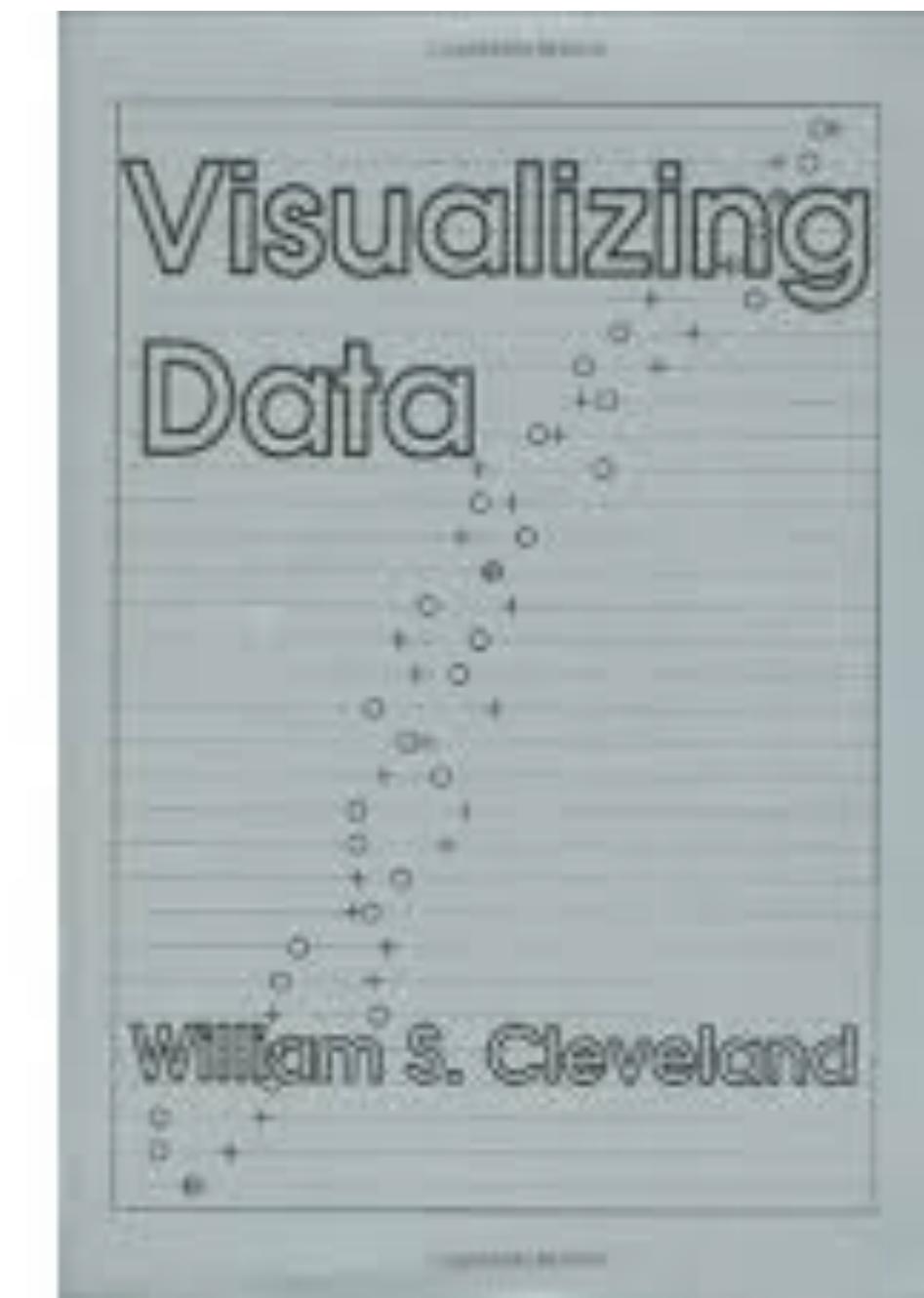
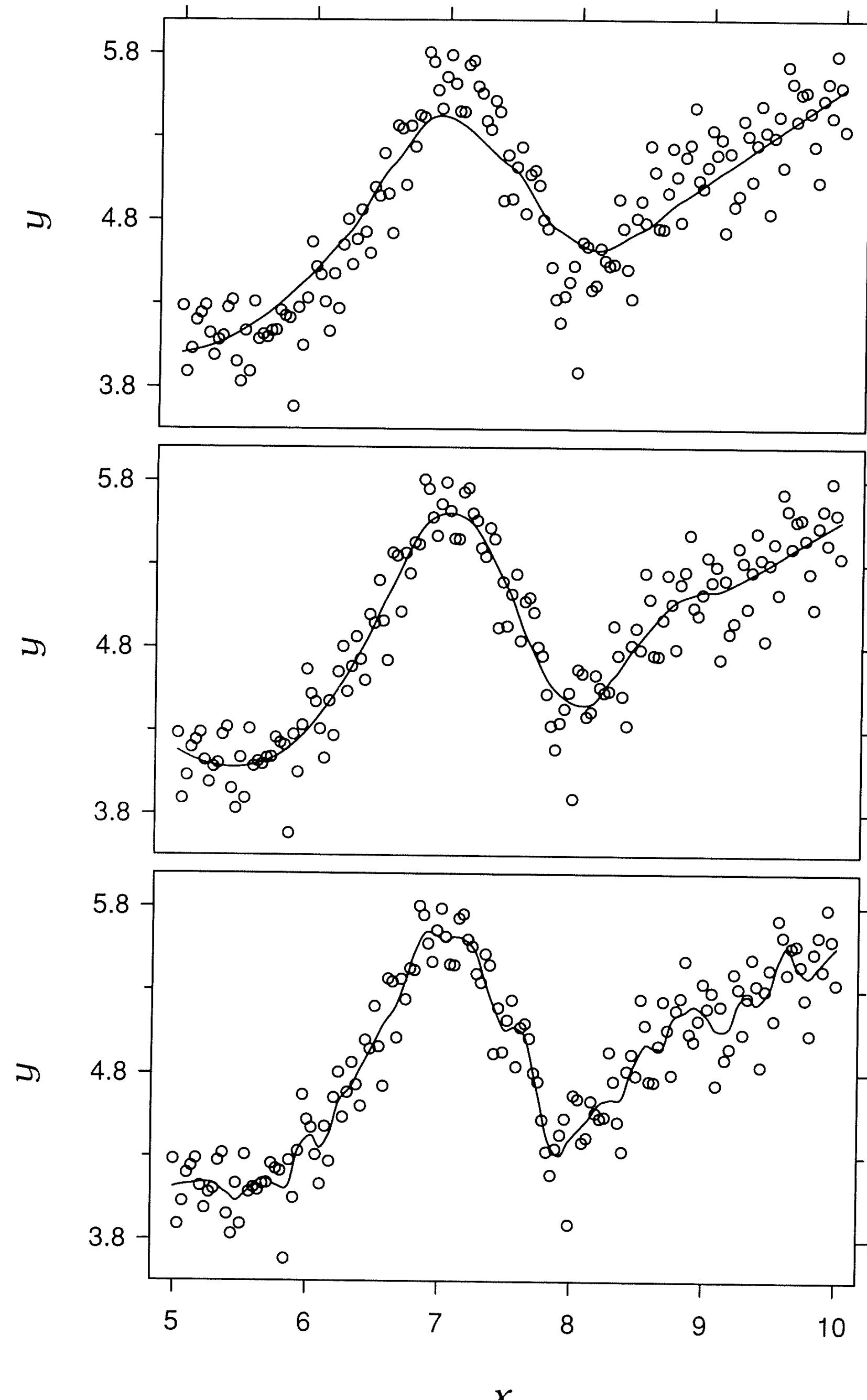
Chistmas Week Box Office Gross





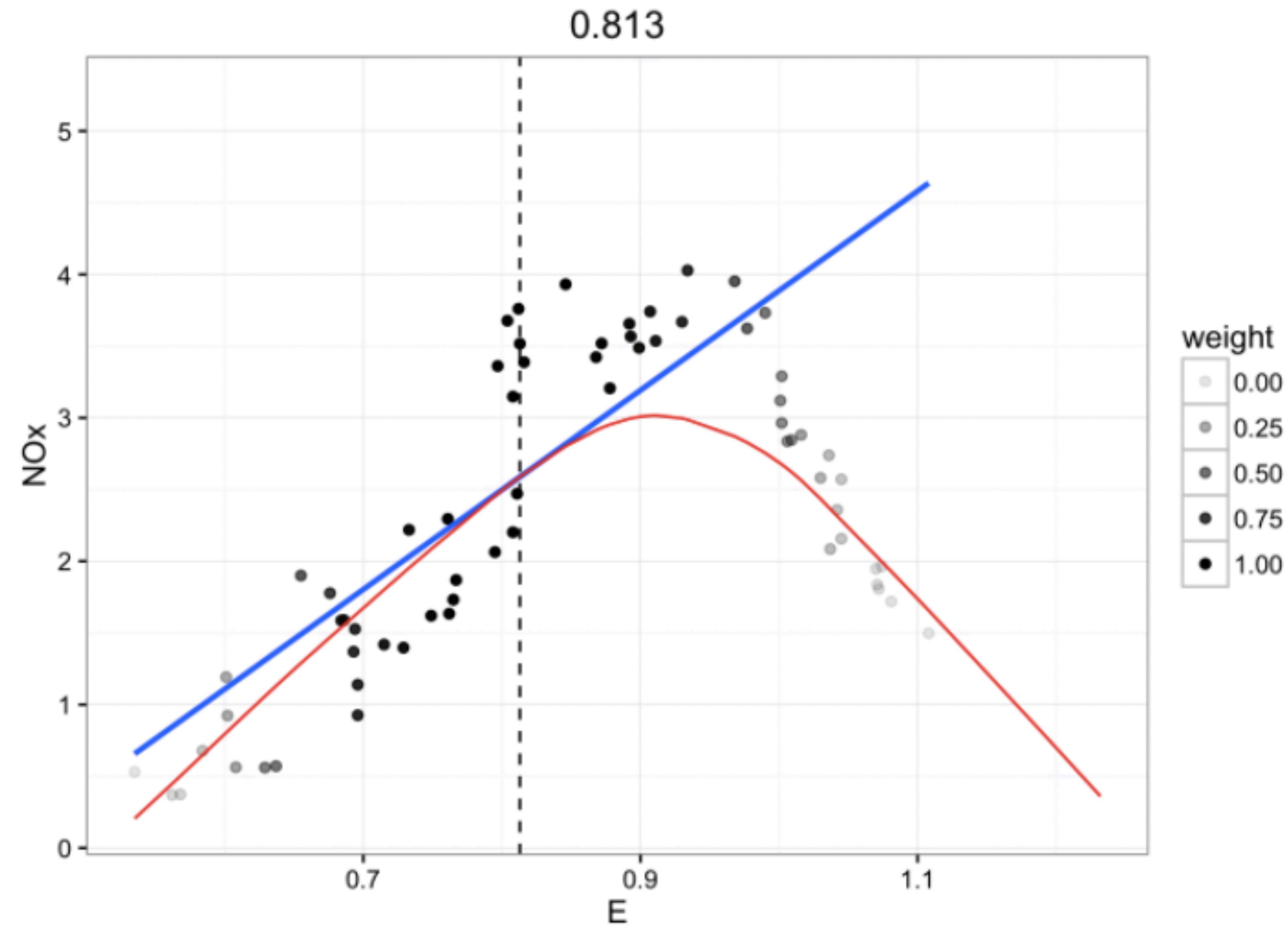


loess = local regression



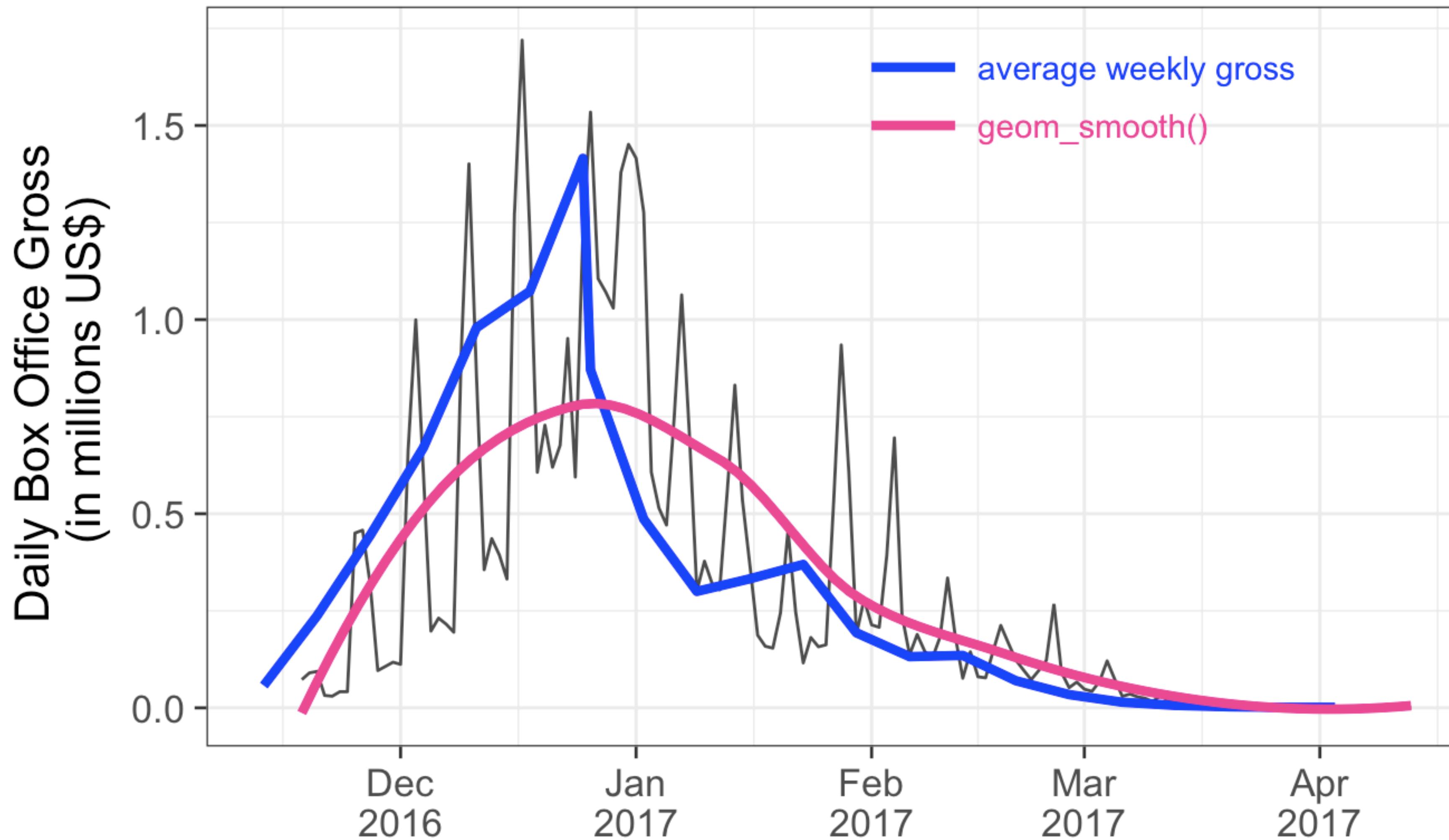
3.9 The three loess curves have three different values of the smoothing parameter, α . From the bottom panel to the top the values are 0.1, 0.3, and 0.6. The value of λ is 2.

<http://varianceexplained.org/files/loess.html>



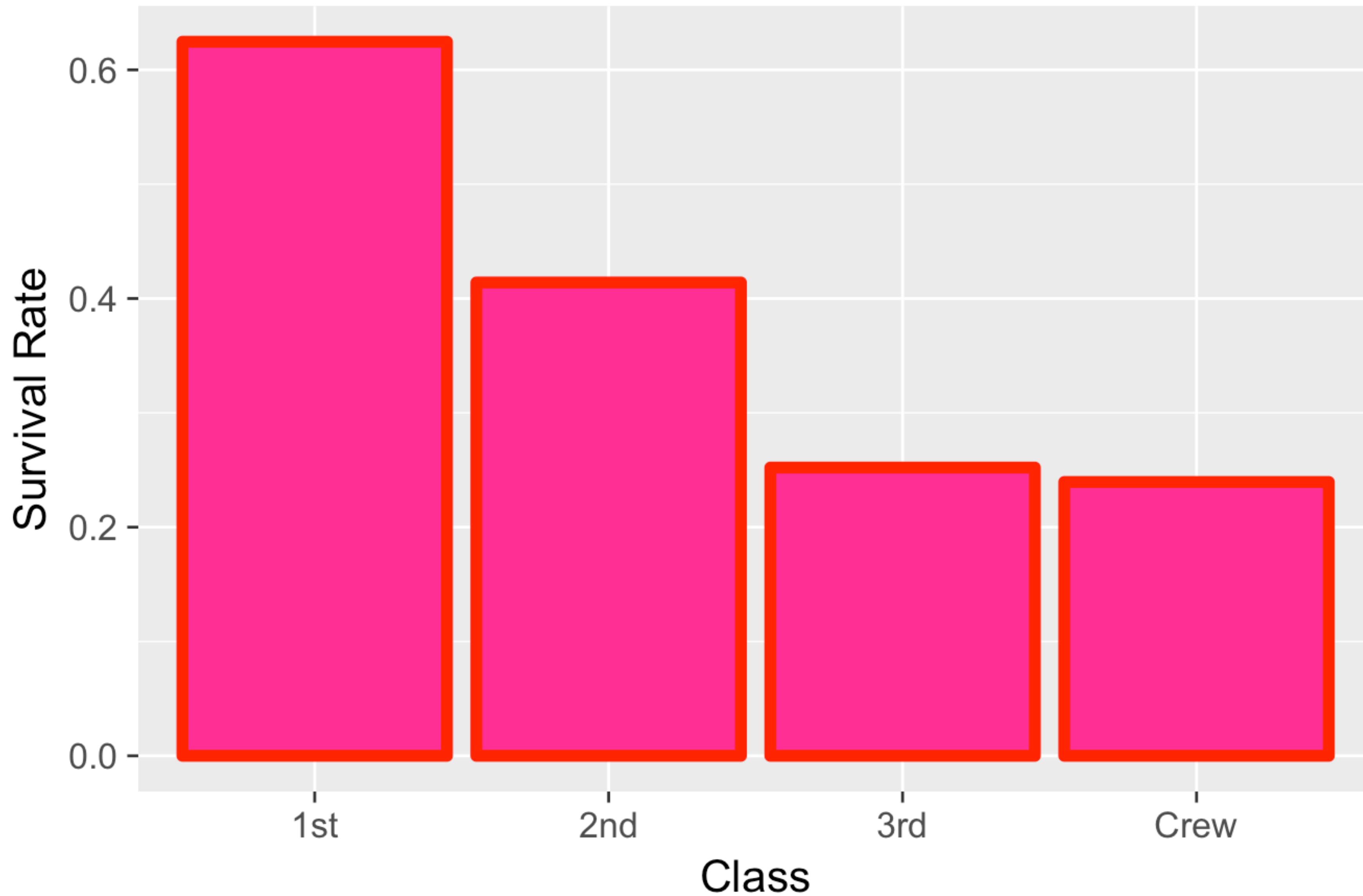
Manchester by the Sea

Daily Gross, United States

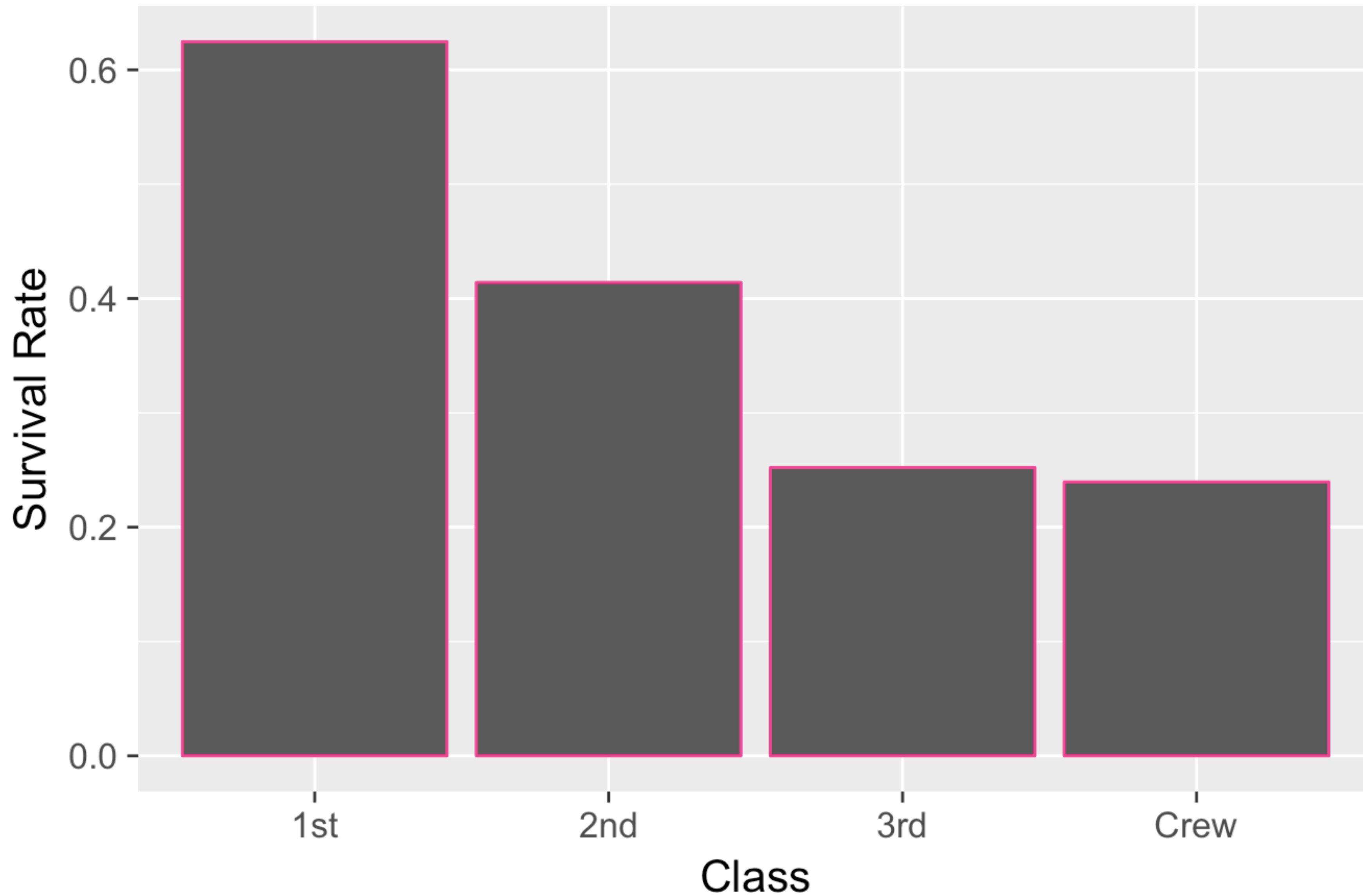


Presentation

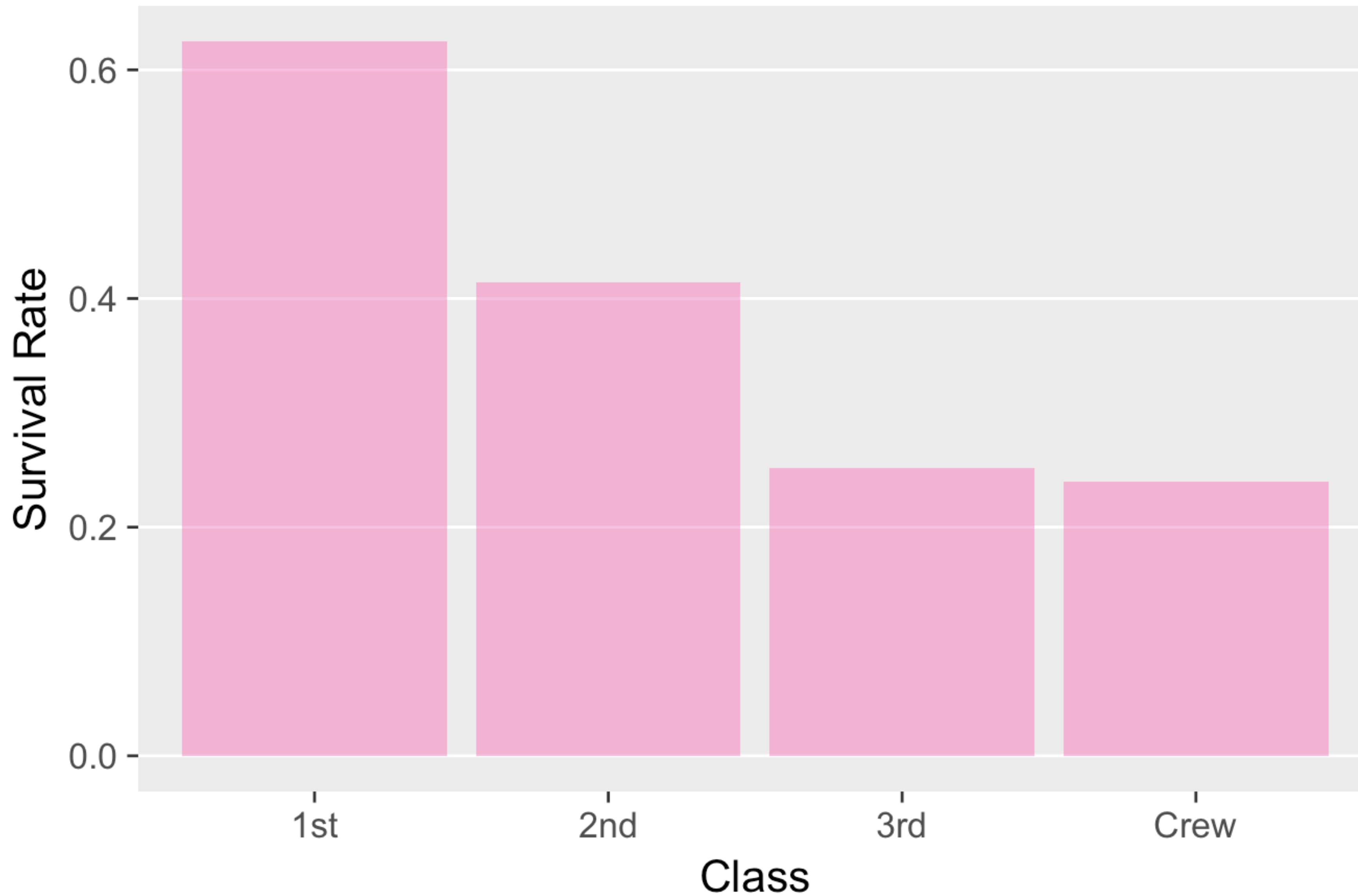
Titanic Survival Rates by Class



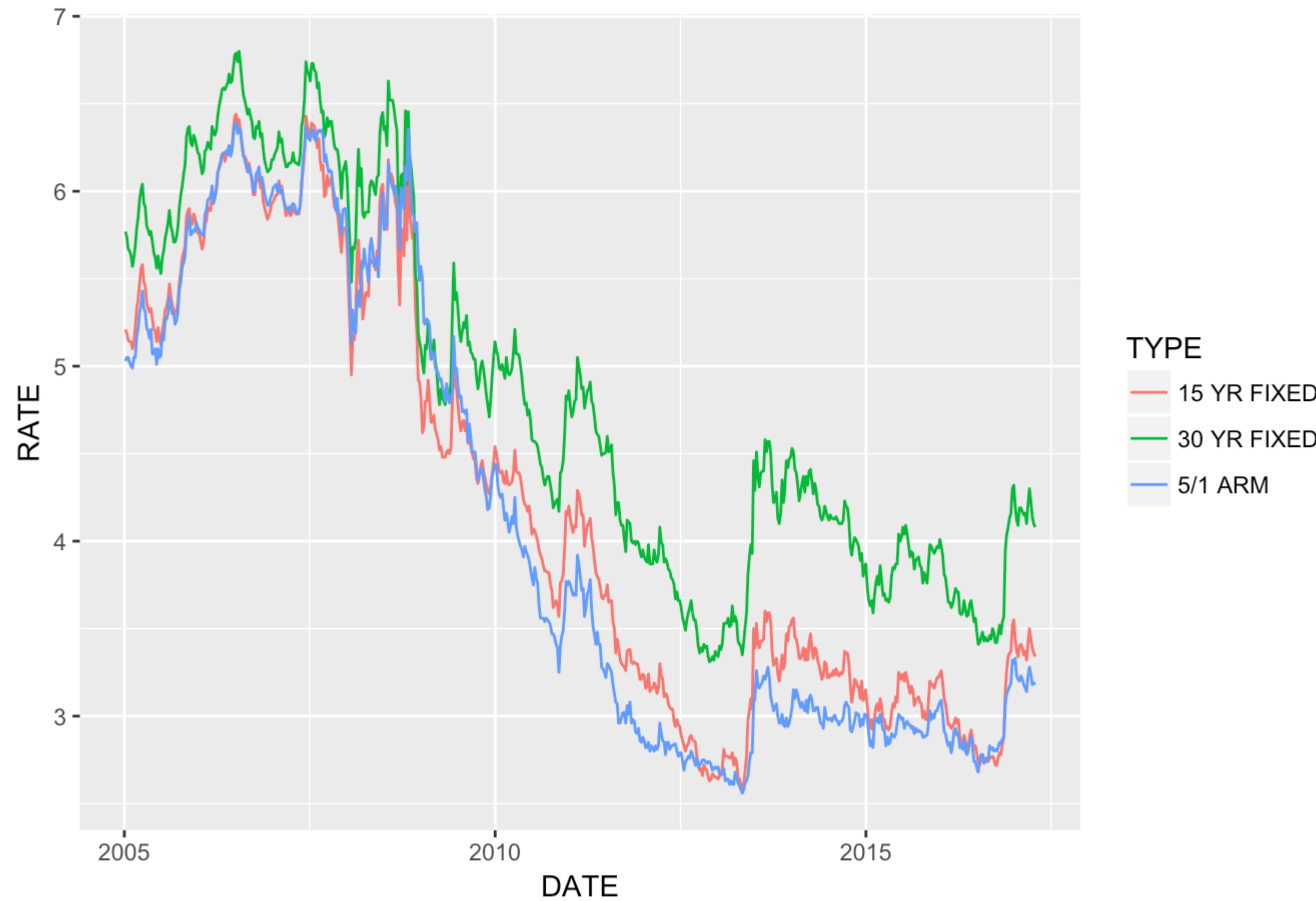
Titanic Survival Rates by Class



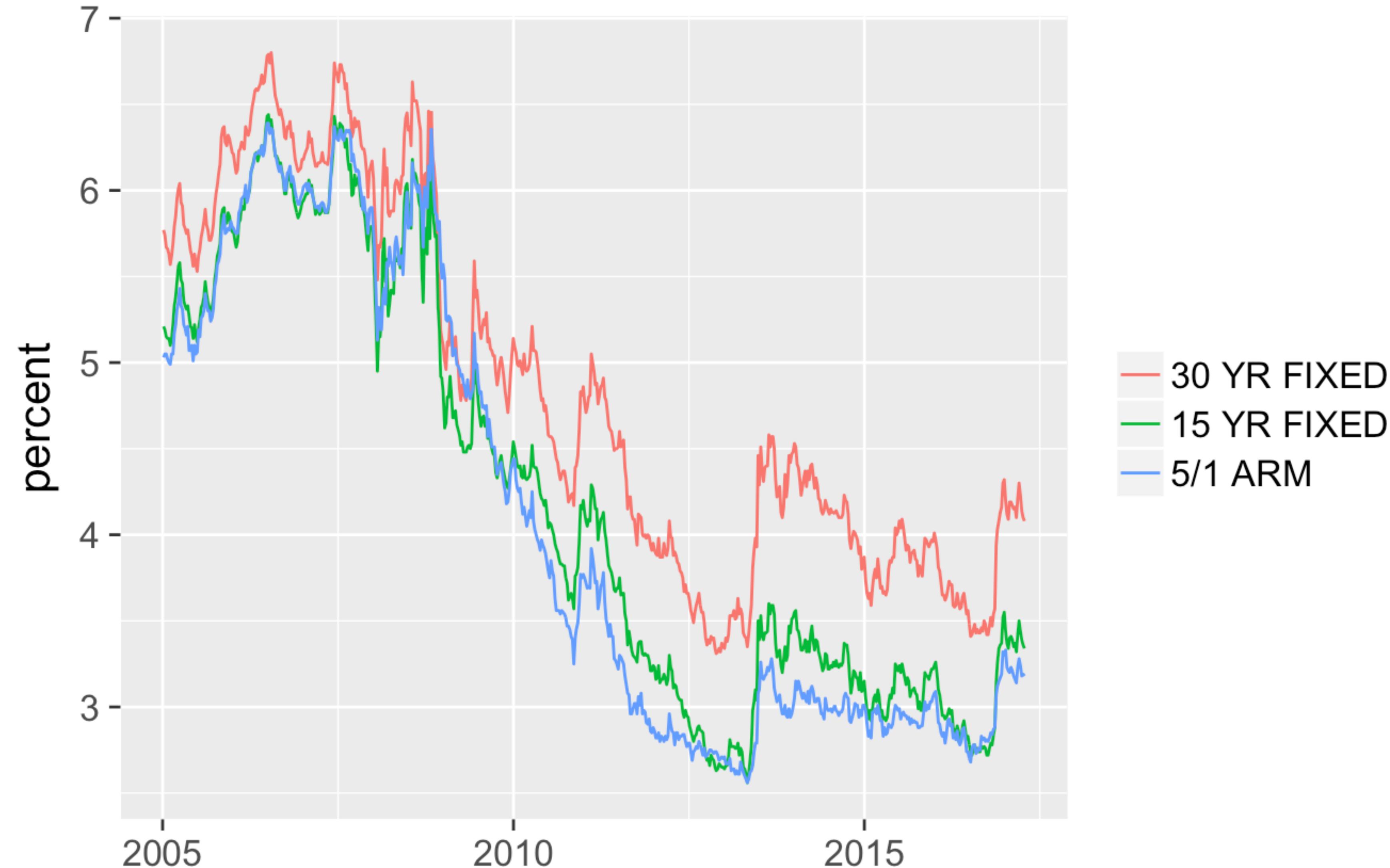
Titanic Survival Rates by Class



U.S. Mortgage Rates



U.S. Mortgage Rates



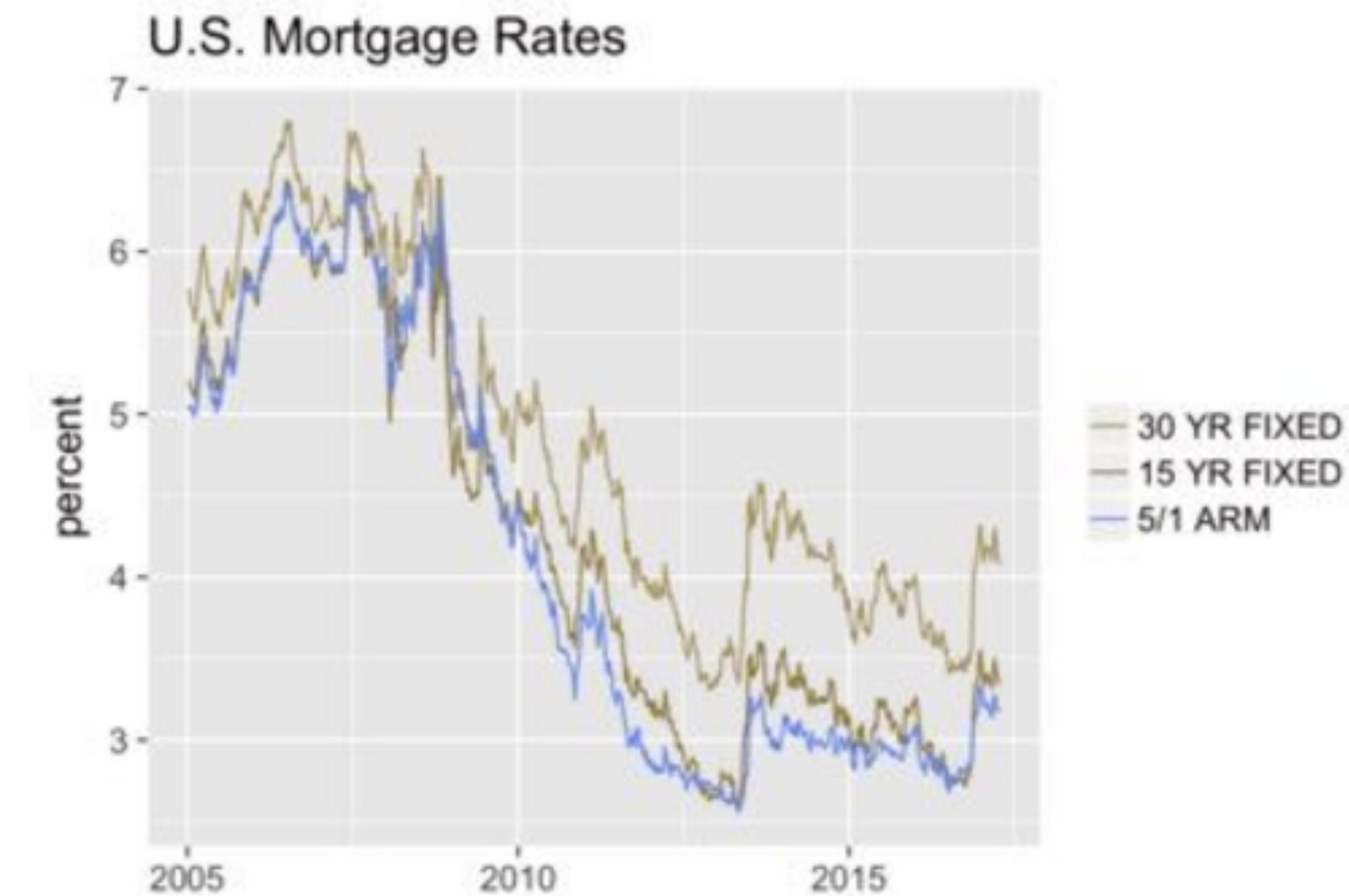
Try Vischeck on Your Image Files

Your Results:

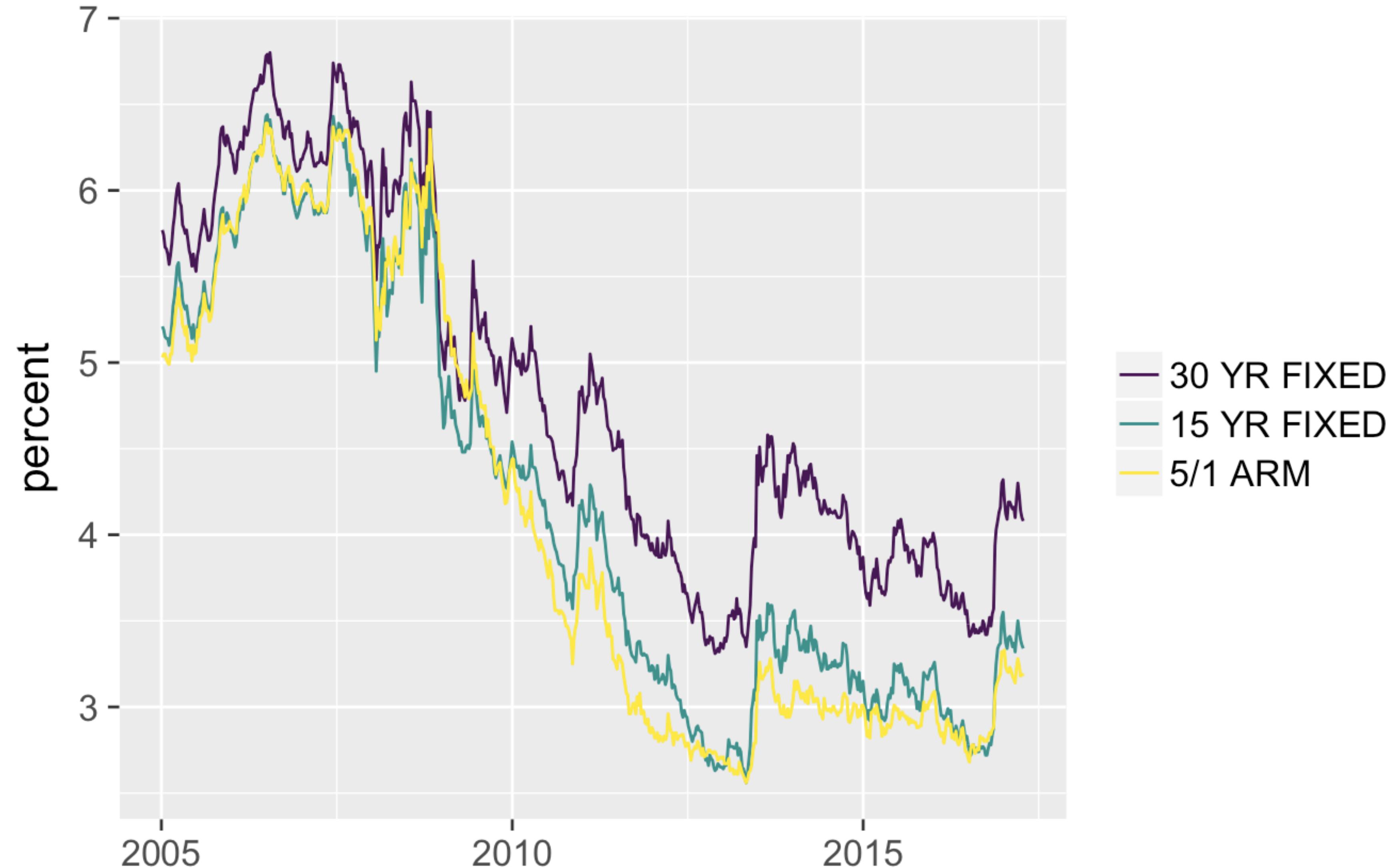
Original Image



Deutanope Simulation



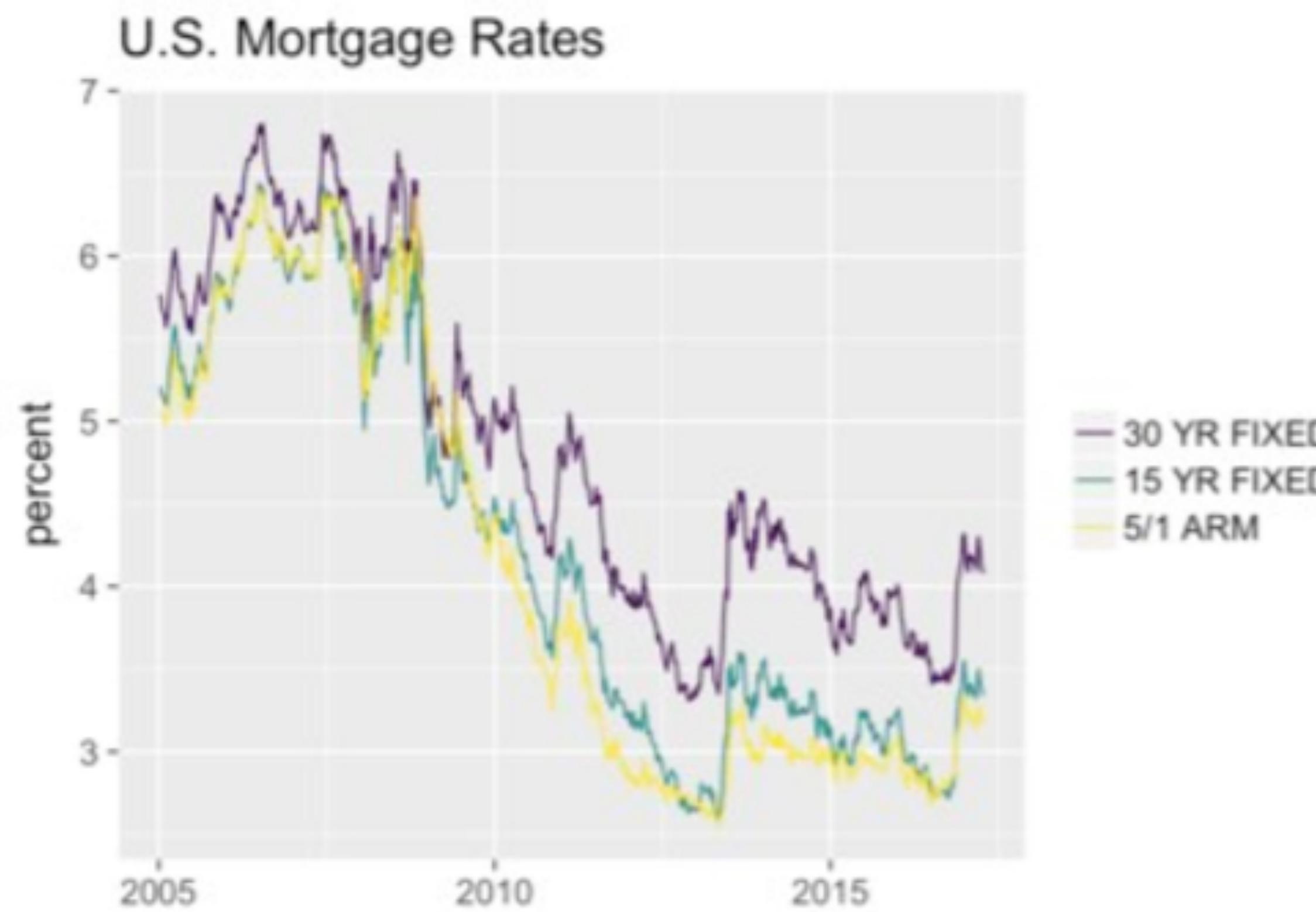
U.S. Mortgage Rates



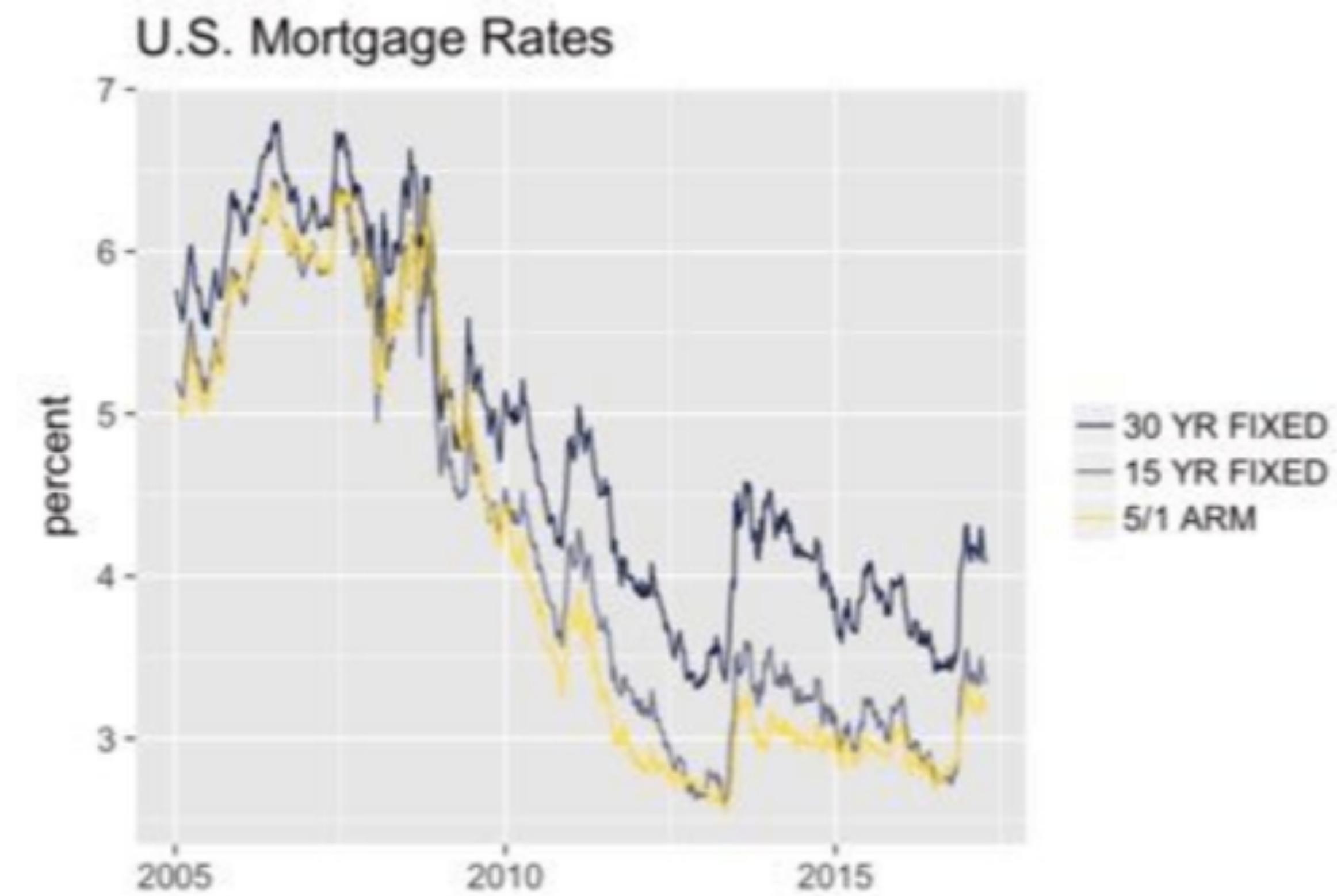
Try Vischeck on Your Image Files

Your Results:

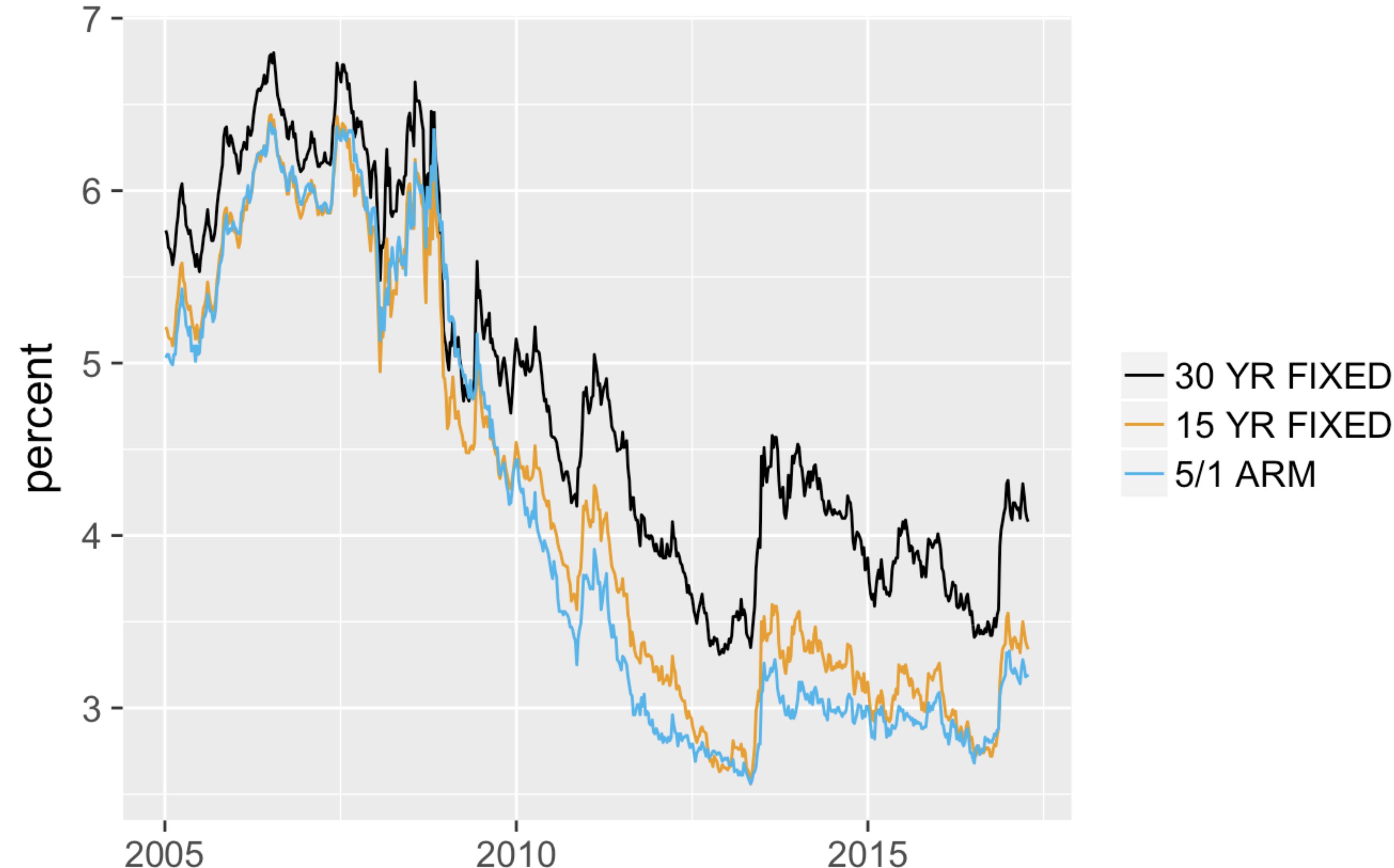
Original Image



Deuteranope Simulation



U.S. Mortgage Rates



ggthemes: + scale_color_colorblind()

Try Vischeck on Your Image Files

Your Results:

Original Image



Deutanope Simulation



ggthemes: + scale_color_colorblind()