LendingClub

Analysis of Lending Club issued Loans

SHU LIU

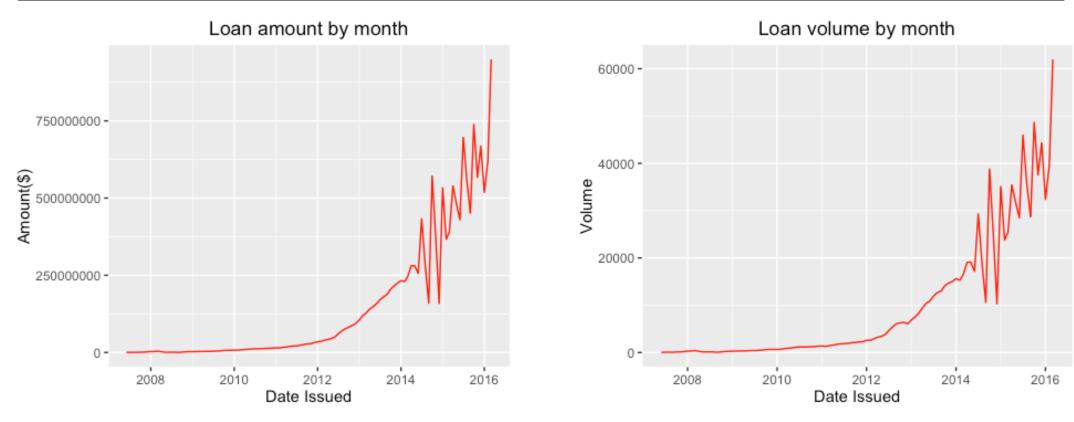
1. Introduction

LendingClub is the world's largest peer to peer online platform. It reduced the cost of lending and borrowing for common people.

<u>Peer-to-Peer lending</u> is an industry that matches people who have money with people who need to borrow money.

2. Growth

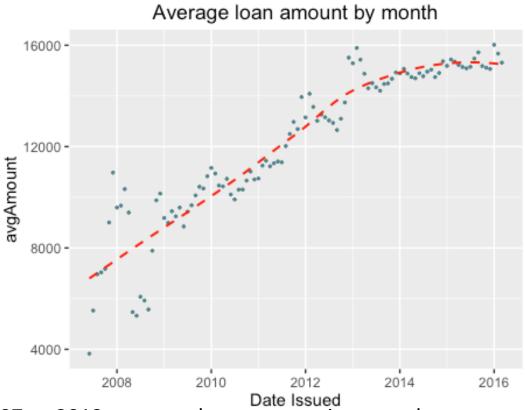
I draw three line charts to analyze the growth of lending club.



From 2014 to 2016Q1, loans per month issued by lending club has been increasing drastically, but the increasing trend is unstable in the short term.

2. Growth

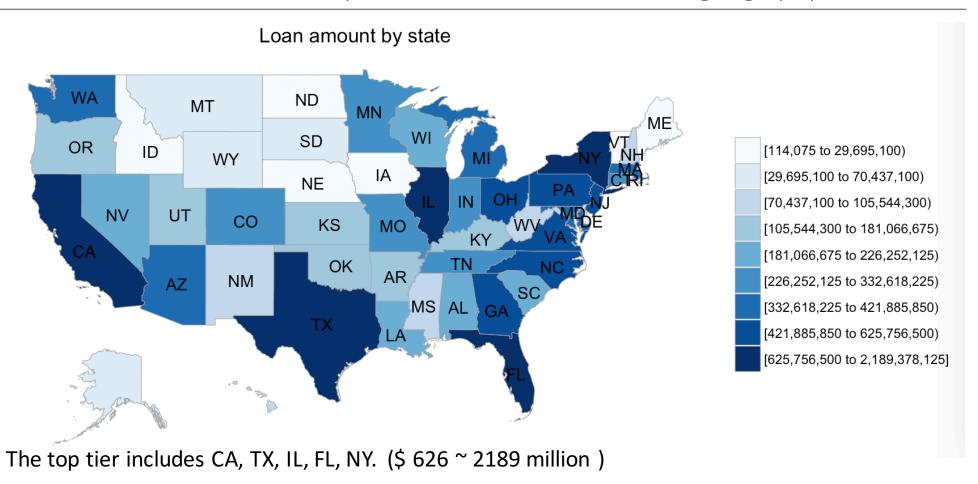
I fit basic linear models for points to figure out the average loan amount changes.



From 2007 to 2012, average loan amount increased at a constant rate. From 2013 to 2016Q1, average loan amount grew with a descending rate.

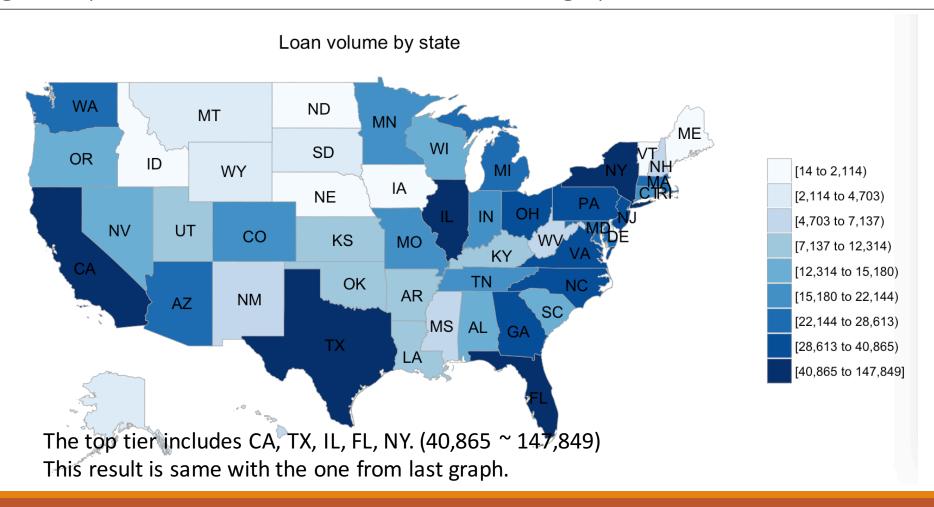
3. Geographical Distribution

I map 50 states with 10 colors to explore loans' distribution in in geography.



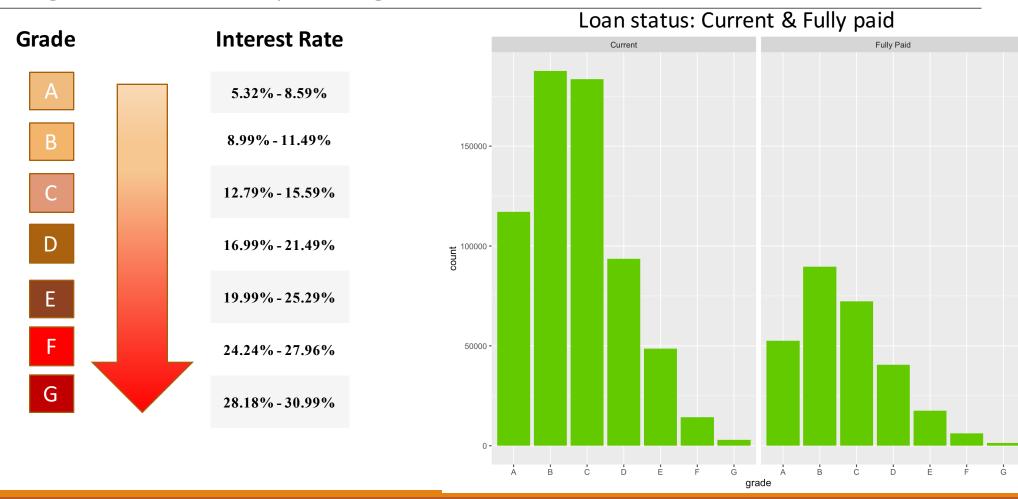
3. Geographical Distribution

I change the parameter to loan volume in the same graph.

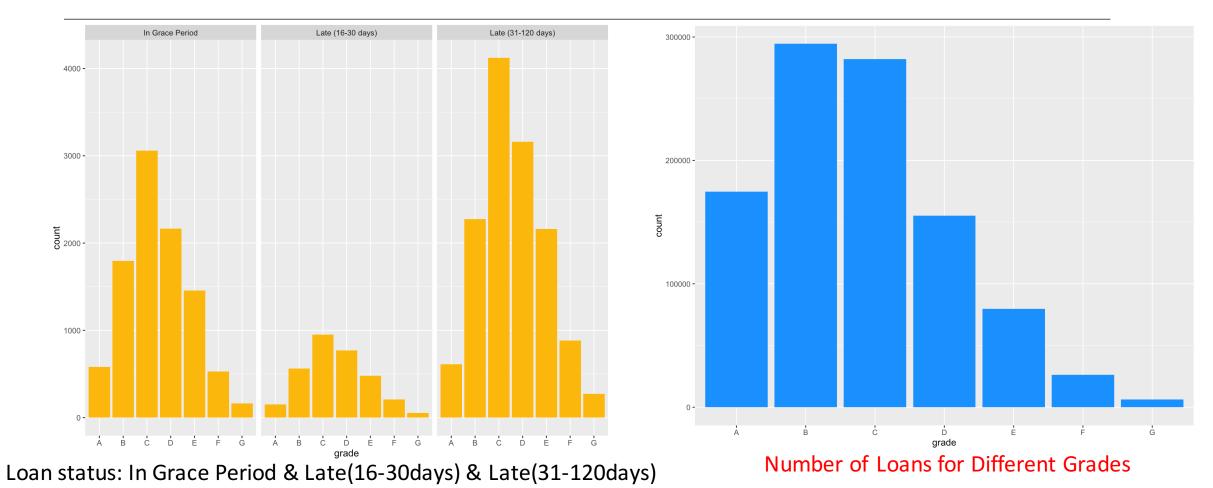


4. Loan Status & Loan Grade

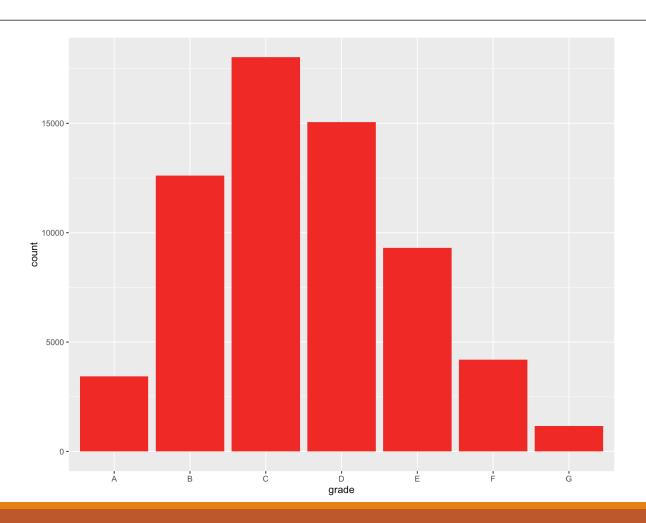
I produce three groups of bar charts to explore the relationship between loan status and loan grades evaluated by Lending Club.



4. Loan Status & Loan Grade



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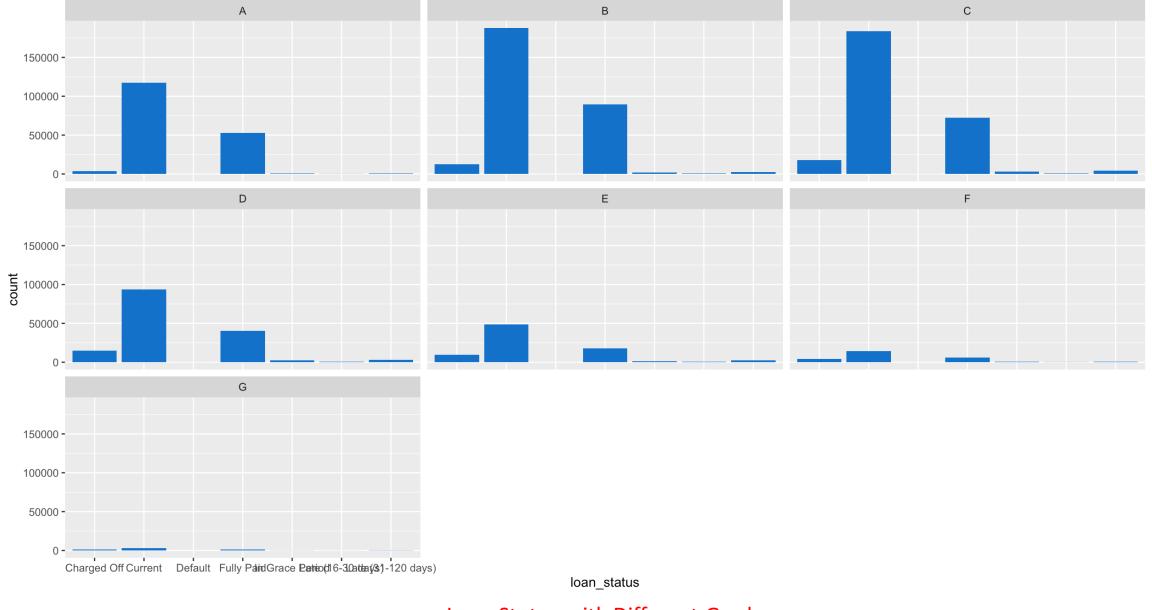


Loan status: Charged off + default

Thank you!

Reference:

Loan Grade	Interest Rate	Origination Fee	36-Month APR	60-Month APR
A	5.32% - 8.59%	1% - 5%*	5.99% - 12.12%	7.46% - 10.80%
В	8.99% - 11.49%	5%	12.53% - 15.08%	11.21% - 13.76%
С	12.79% - 15.59%	6%	17.17% - 20.04%	15.57% - 18.45%
D	16.99% - 21.49%	6%	21.48% - 26.11%	19.89% - 24.53%
Е	19.99% - 25.29%	6%	24.57% - 30.02%	22.98% - 28.45%
F	24.24% - 27.96%	6%	28.94% - 32.77%	27.36% - 31.21%
G	28.18% - 30.99%	6%	32.99% - 35.89%	31.43% - 34.34%



Loan Status with Different Grades