Two Facts about Mortgage Design

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FRB Boston

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These views expressed are those of the authors and do not necessarily reflect those of any entities within the Federal Reserve System.

- Since 2007, we have argued that resets of adjustable rate rate mortgages.
 - were not causing most defaults.
 - and would not be a major problem.
- Large national sample of loans on which lender initiated foreclosure.
 - Completely consistent with National Delinquency Survey

		2007	2008	2009	2010	All
Prior to deli	nquency spell that led to foreclosure					
0/ 05 10000	Payment increase	12%	17%	11%	9%	12%
% of loans with	Payment reduction	0%	0%	4%	8%	4%
	No change since orig.	88%	82%	85%	83%	84%
FRM share		38%	48%	62%	74%	59%
ARMs prior	to reset	44%	32%	20%	15%	24%
ARMs that r or fell	eset but payment stayed the same	6%	2%	7%	2%	5%
# obs in the	us.	374	641	874	756	2,646

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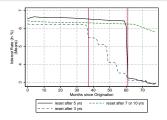
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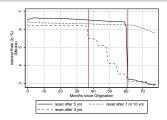
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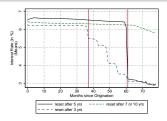
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- Andreas Fuster and I (Fuster and Willen, 2012) looked at the performance of Alt-A Hybrid ARMs
- Payments fixed for five years started resetting down 50 percent payment reductions in 2010/2011
- Compared to a sample of loans with fixed rates for 7+ years
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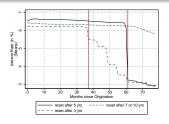
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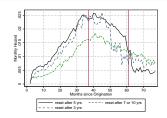
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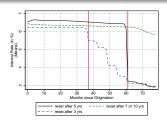


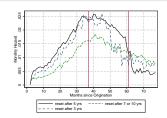


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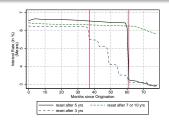


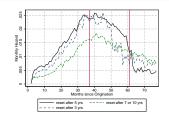


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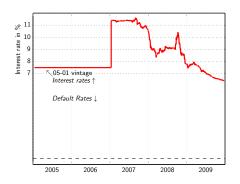




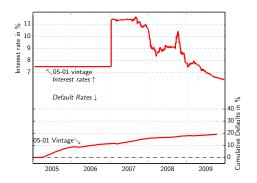
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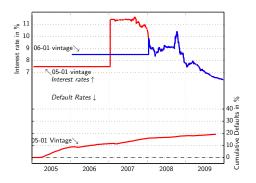
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- Equivalent to having 35% lower LTV.



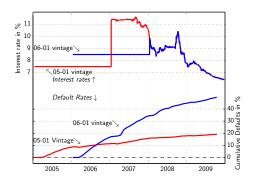
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- But there was no associated jump in defaults when they hit



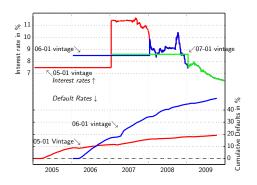
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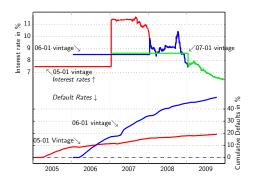
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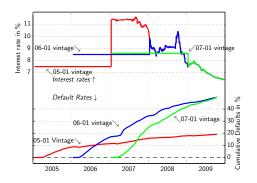
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- Performed even worse...



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 The market couldn't come up with the long-term FRM. It took smart people in the government to figure it out.

"Until [the depression], mortgages were not fully amortized, as they are now... but were balloon instruments in which the principal was not amortized, or only partially amortized at maturity, leaving the debtor with the problem of refinancing the balance."

-Fabozzi and Modigliani, 1992

"Today most mortgages are amortized... Until the 1930s most mortgages, however, were of the "balloon-note" type. Typically these were short-term mortgages for three or five years, and borrowers made only interest payments until the loan

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"Before the Roosevelt era, virtually all mortgages were short term loans of five years or less, typically interest-only, with the principal due and payable at the end. If the homeowner could not roll over the loan, he lost the house. As foreclosures skyrocketed, the New Deal invented the modern, long-term, self-amortizing mortgage."

Robert Kuttner in The American Prospect, July 2008

Is this true?

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Is this true?

	Mutual svgs banks	Life Insurers	Savings and Loans	Commercial Banks	Individuals and Other
By type of loan (1925-1929)					
Fully Amortized					
Partially Amortized					
Non-amortized					
As % of dollar value of all loan.					

Source: Grebler, Blank and Winnick (1956)

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- Interesting sociological question. Credulous?
 - Wide reporting non-existence of FRM < 1930
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Role of ARMs in crisis Origins of the Fixed Rate Mortgage

 The market invented the amortizing fixed rate mortgage. The government forced everyone to use it.

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- Suppose subprime lenders had done fully amortized fixed rate mortgages instead of the "complex products."
- What would have happened?
- Easy to find out because subprime lenders originated lots of plain vanilla, fully amortized, fixed rate mortgages.
- Would history have been different?
 - Maybe. Hard to separate selection and treatment.
 - But not very different.

	All Subprime			prime FR	Ms	Subprime 2/28s		
	# of orig. in thou.	P(default)	# of orig. in thou.	Share in %	P(default)	# of orig. in thou.	Share in %	P(default)
2005	529	41.9	198	37.3	37.1		62.7	44.8
2006	504	55.9	258	51.2	50.7	246	48.8	61.4
2007	246	55.9	208	84.5	53.8		15.5	66.8
Total	1278	50.1	663	51.9	47.6	615	48.1	

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The slide you've all been waiting for...

• The end.

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