How Debt Repayment Strategy Affects Motivation

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	Α	В
Owing	\$4500	\$500
Rate	12%	24%

	Α	В
Owing	\$4500	\$500
Rate	18%	18%

	Α	В
Owing	\$4500	\$500
Rate	19%	17%

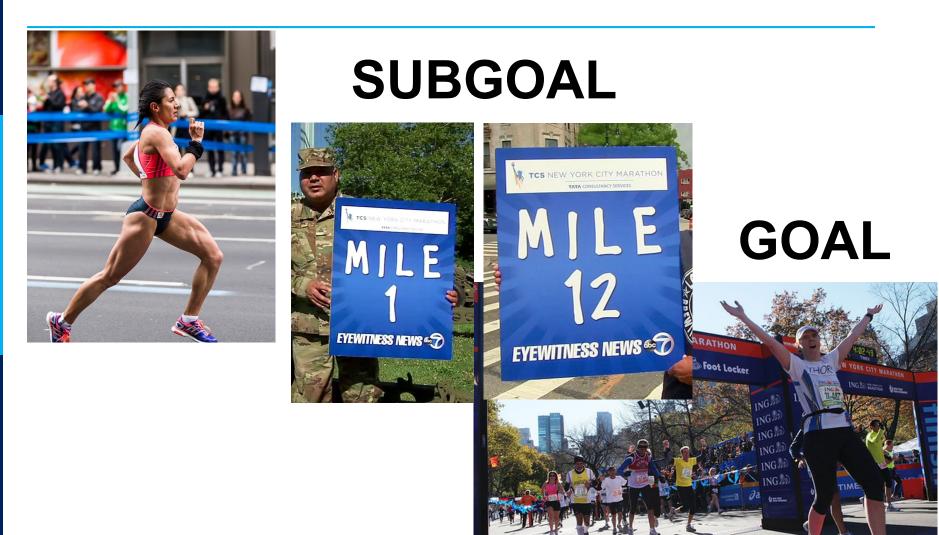
Debt Repayment as a Goal

Debt A	Debt B	Debt C	Debt D	Debt E
\$1000	\$1000	\$1000	\$1000	\$1000

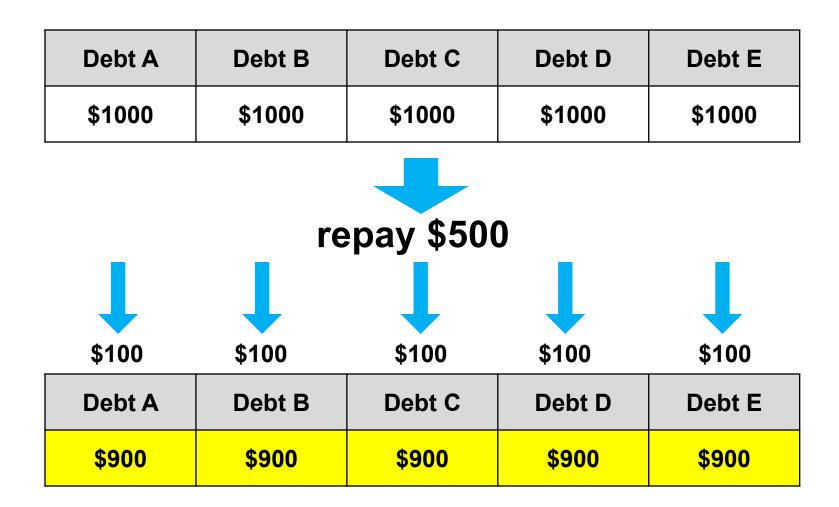
Overarching Goal: Repay **\$5000**

Subgoal: Repay ONE Debt (\$1000)

How Subgoals Work



Dispersed Strategy



Concentrated Strategy

Debt A	Debt B	Debt C	Debt D	Debt E
\$1000	\$1000	\$1000	\$1000	\$1000





\$500

Debt A	Debt B	Debt C	Debt D	Debt E
\$500	\$1000	\$1000	\$1000	\$1000

Credit Card Data

- HelloWallet.com
 - Personal Finances Application
 - Client enrolls:



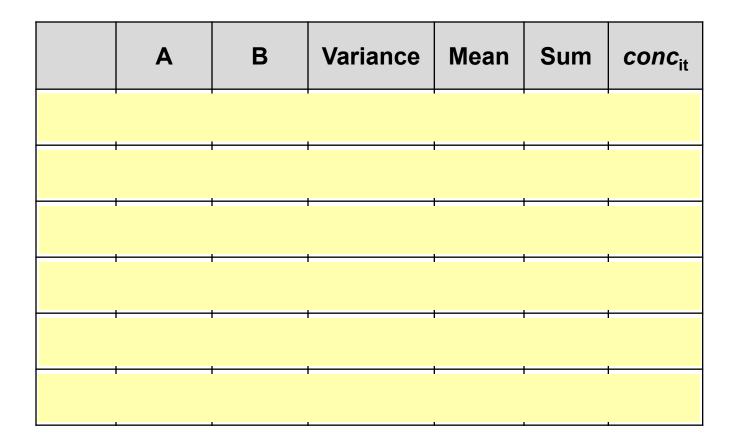
- Provides access to online banking / accounts
- Measure Repayment Strategy in the real world
- Does (Concentrated) strategy in month t predict greater debt repayment in month t + 1?

Measure of Strategy: conc_{it}

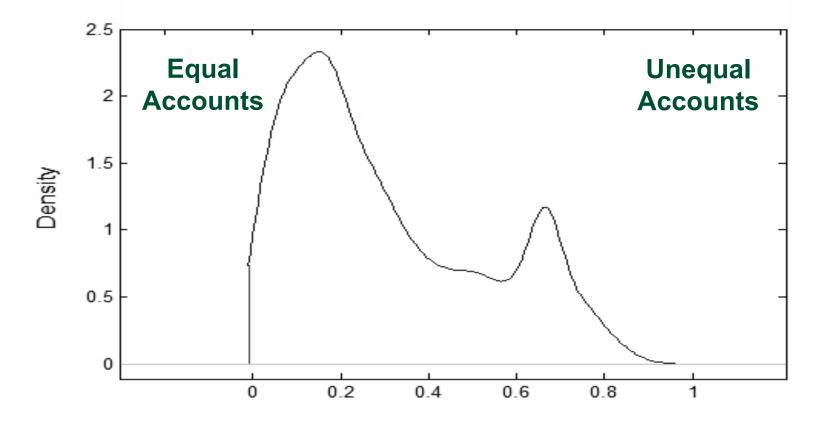
$$conc_{it} = \frac{\left(\sum_{k \in \dot{A}_{it}} \frac{(x_{ikt} - \dot{x}_{it})^2}{n_{\dot{A}_{it}} - 1}\right)}{\dot{x}_{it} \times \sum_{k \in \dot{A}_{it}} x_{ikt}}$$

- In English:
 - Normalized (between 0 and 1)
 - Variance of Payments <u>divided by</u> Average Payment

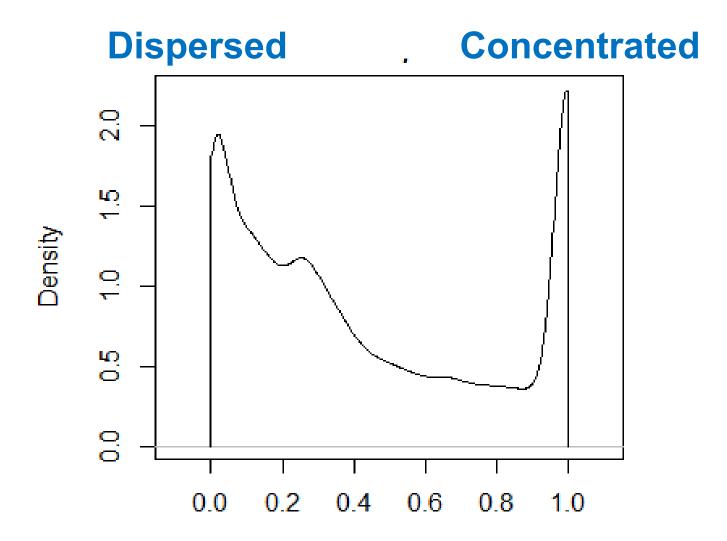
Examples of conc_{it}



How Concentrated are Debts? (concacc_{it})



What Strategy do People Use?



What Affects Debt Repayment (t + 1)?

Variable	Z-stat	Sig
conc _{it}	3.75	***
Prior repayment	3.78	***
accconc _{it}	-0.57	
Total Debt	4.99	***
Monthly Spending	-4.64	***
Number of cards	-1.53	*
Closed an account	0.37	
	*** - 004	

* *p* < .05, ** *p* < .01, *** *p* < .001

Use of a more Concentrated Strategy led to greater debt repayment in subsequent period.

What Explains This Effect?

FEELINGS OF PROGRESS







"How much progress do you feel you made towards repaying your debt?"

	Α	В
Start	\$4500	\$500
Payment	\$300	\$0
Current	\$4200	\$500

	Α	В
Start	\$4500	\$500
Payment	\$0	\$300
Current	\$4500	\$200

3.46 / 7

4.33 / 7

Greatest Rate vs Smallest Balance

Scenario 5

	Α	В
Start	\$4650	\$350
Payment	\$300	\$0
Current	\$4350	\$350

Scenario 8

	Α	В
Start	\$4350	\$650
Payment	\$0	\$300
Current	\$4350	\$350

3.33 / 7

4.62 / 7

	Α	В
Owing	\$4500	\$500
Rate	19%	17%

"How big is the role of motivation in debt repayment?"

Thank-You!

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Why Does This Work?

1. Perceived Goal Progress (Pre-Subgoal Completion)

Kettle et al., Journal of Consumer Research, 2016

2. Success! (Post-Subgoal Completion) Gal & McShane, Journal of Marketing Research, 2012

3. Both Pre-Subgoal & Post-Subgoal

Brown & Lahey, Journal of Marketing Research, 2015

4. Debt Account Aversion

Scott Rick & Friends, Journal of Marketing Research, 2011

Greatest Rate of Movement

concentrated

	Α	В	С	D	E
Start	\$1200	\$1200	\$1200	\$1200	\$1200
Payment	\$1000	\$0	\$0	\$0	\$0
Current	\$200	\$1200	\$1200	\$1200	\$1200

	Α	В	С	D	E
Start	\$1200	\$1200	\$1200	\$1200	\$1200
Payment	\$200	\$200	\$200	\$200	\$200
Current	\$1000	\$1000	\$1000	\$1000	\$1000

dispersed

Rates of movement: 83% vs 17%

Greatest Amount of Movement

concentrated

	Α	В	С	D	E
Start	\$1200	\$1200	\$1200	\$1200	\$1200
Payment	\$1000	\$0	\$0	\$0	\$0
Current	\$200	\$1200	\$1200	\$1200	\$1200

	А	В	С	D	E
Start	\$1200	\$1200	\$1200	\$1200	\$1200
Payment	\$200	\$200	\$200	\$200	\$200
Current	\$1000	\$1000	\$1000	\$1000	\$1000

dispersed

Greatest Amount of Movement

We infer just as much progress whether he paid \$1000 into an account with \$1200 to start with, or \$20000 to start with.

Smallest Amount Remaining

concentrated

	Α	В	С	D	E
Start	\$1200	\$1200	\$1200	\$1200	\$1200
Payment	\$1000	\$0	\$0	\$0	\$0
Current	\$200	\$1200	\$1200	\$1200	\$1200

	Α	В	С	D	E
Start	\$1200	\$1200	\$1200	\$1200	\$1200
Payment	\$200	\$200	\$200	\$200	\$200
Current	\$1000	\$1000	\$1000	\$1000	\$1000

dispersed

Experiment 2

- 2 x 2 x 2 Between-Subject
 - Repayment Strategy
 - Concentrated vs. Dispersed
 - Focus of Concentrated Strategy
 - Smaller account vs. Larger account
 - Amount Remaining in Each Account
 - Equal vs. Unequal
- Note:
 - Total starting debt and total payments are always the same.

Experiment 2: Scenario

- "Imagine that you are in debt, and that your goal is to repay all of your debts in 12 months."
 - 2 credit cards
- "Imagine that you have repaid the following amount in the past month."
- Key DV:
 - Choice: Deposit Check into Credit Card?
- Mediators:
 - Perceived progress?
 - How close to attaining goal?
 - Motivation to repay debt?