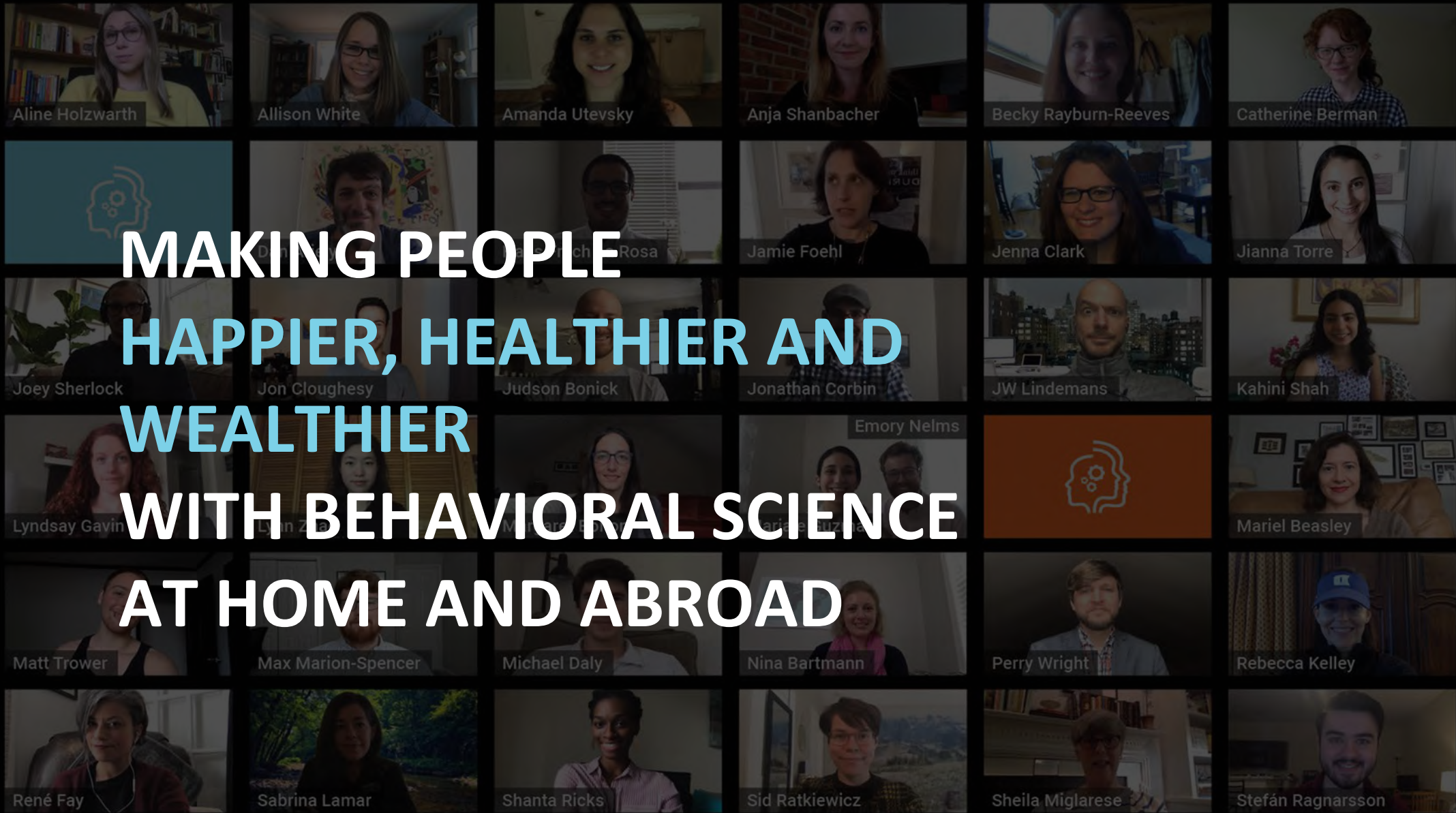

**INNOVATION
DESTINATION
BEHAVIORAL
SCIENCE WORKSHOP**

Behavioral Science 101



**MAKING PEOPLE
HAPPIER, HEALTHIER AND
WEALTHIER
WITH BEHAVIORAL SCIENCE
AT HOME AND ABROAD**

Classic Economics assumes people:

- Accumulate information
- Account for probabilities
- Accurately weight costs & benefits
- Maximize our own utility
- Have stable preferences



But really...

- We pay attention to social norms
- We use shortcuts to make decisions
- We are present bias
- We like the word FREE
- We are irrational



**\$25 +
\$5 shipping**



**\$30 +
FREE shipping**

**I'm going to
start eating
healthy...**

 **Me**

**I'm going to
start eating
healthy...**

 **Me**

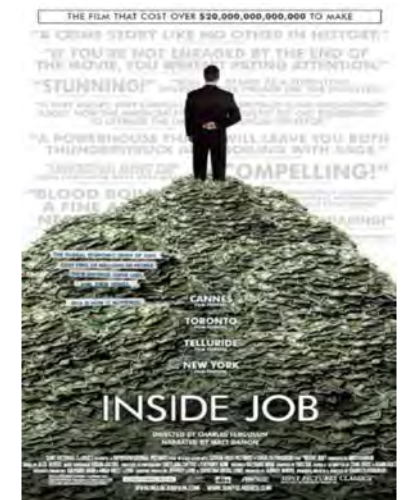


Also me 

People
aren't
rational!

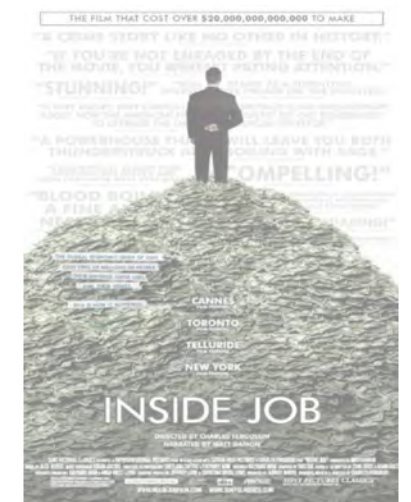
PICKING
FOR THE
FUTURE

67%



People aren't rational!

PICKING FOR THE FUTURE



PICKING FOR TONIGHT

44%





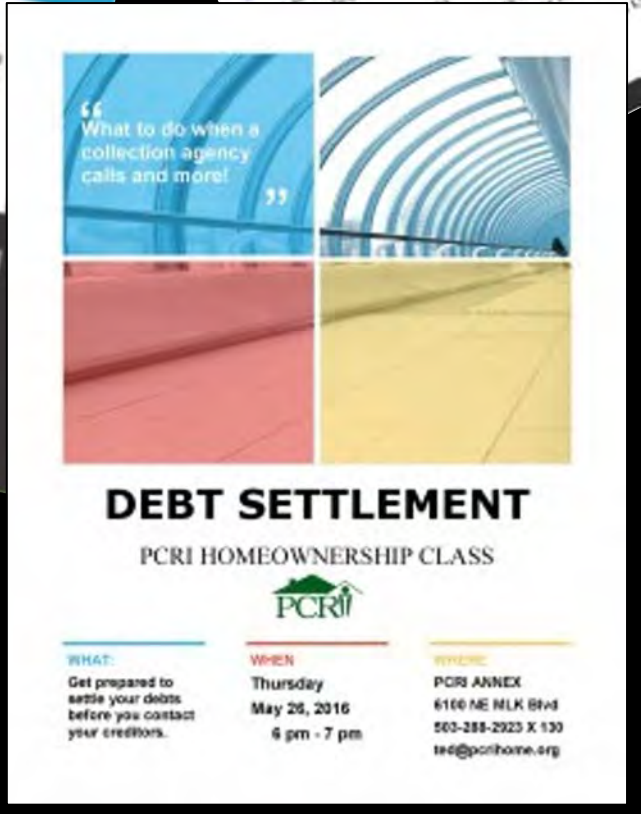
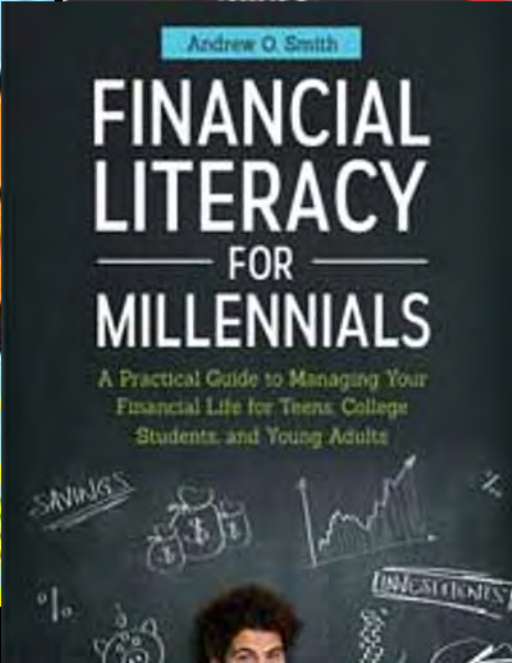
ACTIONS

INTENTIONS

BEHAVIORAL SCIENCE

HOW TO REMOVE

A BANKRUPTCY FROM YOUR CREDIT REPORT



BUT DOES IT WORK?

Hidden Credit Repair Secrets

Homeown
Are You Ready

Drowning in Credit Card Debt?

HOW TO REMOVE A BANKRUPTCY FROM YOUR CREDIT REPORT



“HELP AMERICA GET OUT OF DEBT”
A Non-Profit Community Service

What to do when a collection agency calls and more!

DEBT SETTLEMENT

PCRI HOMEOWNERSHIP CLASS

WHAT: Get prepared to settle your debts before you contact your creditors.

WHEN: Thursday May 26, 2016 6 pm - 7 pm

WHERE: PCRI ANNEX 6100 NE MLK Blvd 500-288-2923 X 130 info@pcrhome.org

0.3%

The percent of variance in financial behaviors explained by content-based, financial education interventions*

* Based on a meta-analysis of 458 treatment effects (Kaiser, Lusardi, Menkhoff, & Urban, 2020)

KNOWING INFORMATION
DOES NOT LEAD
TO BEHAVIOR CHANGE



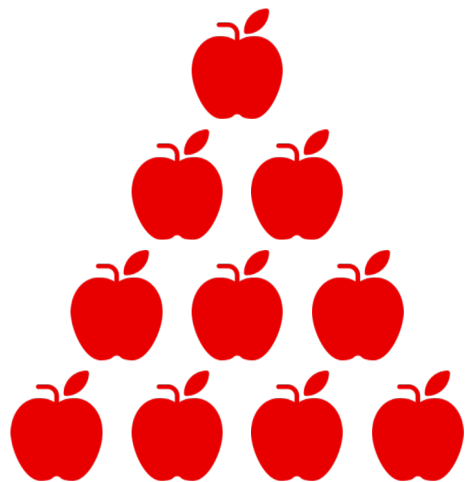
**A Goal.
An Intention.
An Objective.**

**... is not
enough**

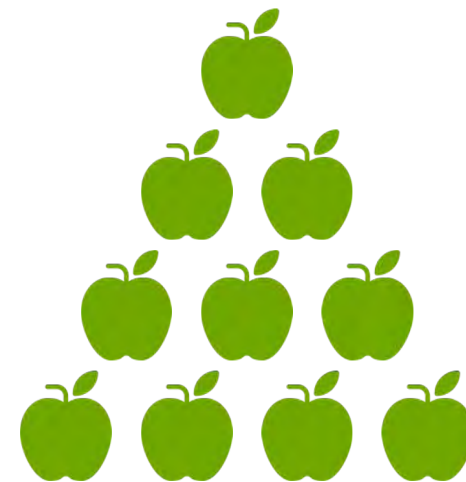


**What
does
work?**





Don't Like Apples



Likes Apples

So they
put out
free
apples...

Salad Bar

SONY Employee \$3.50 / lb
Guest \$8.50 / lb

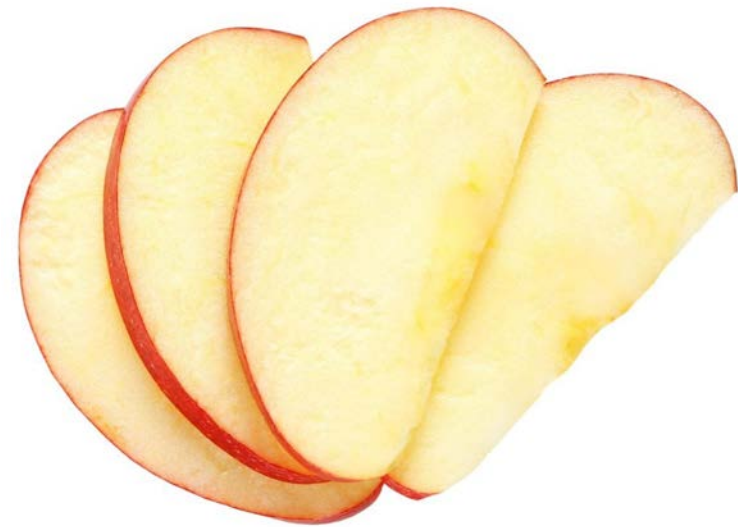
TOP 5
HEALTHY
FOODS TO EAT
LOCALLY

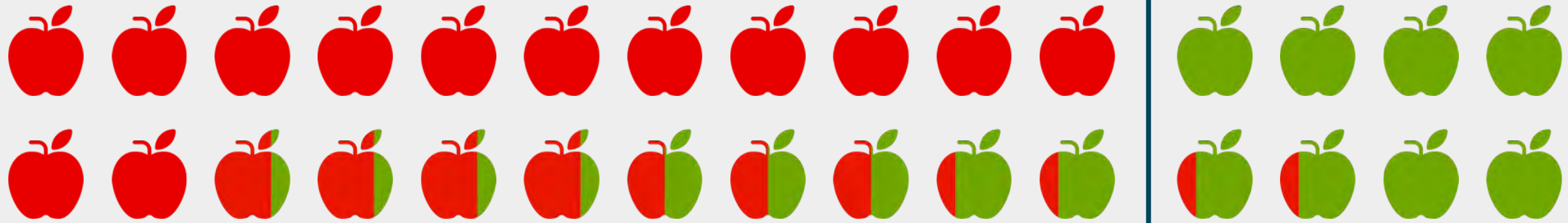
- 1. APPLES
- 2. BANANAS
- 3. CARROTS
- 4. CUCUMBERS
- 5. SPINACH



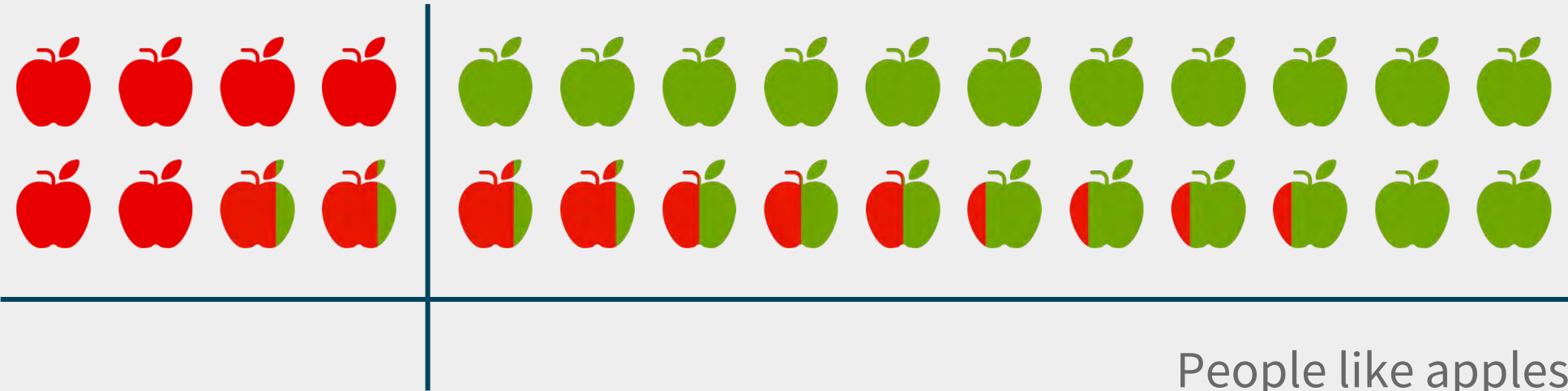
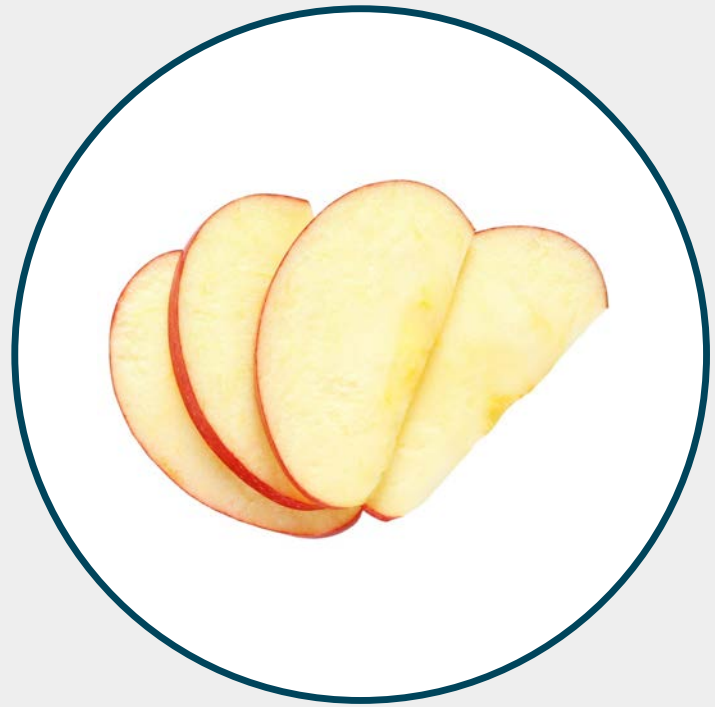


VS



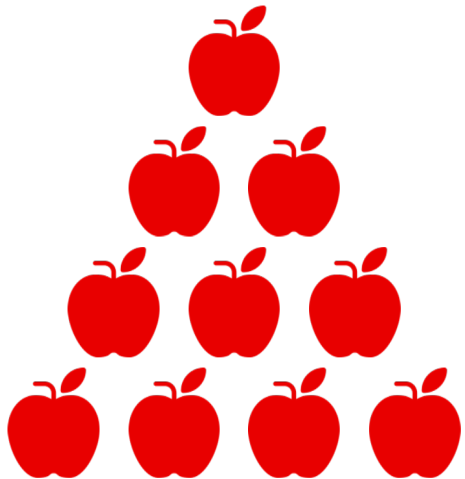


People don't like apples

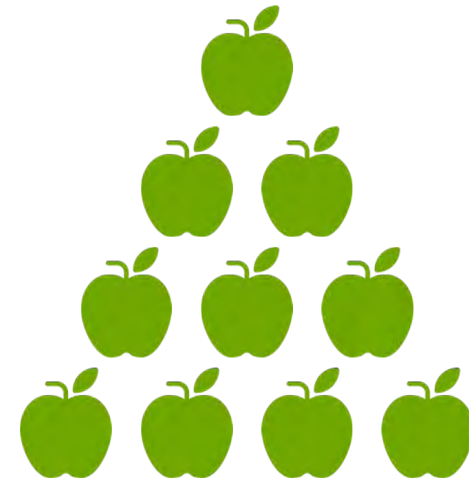


People like apples

We don't look like this...

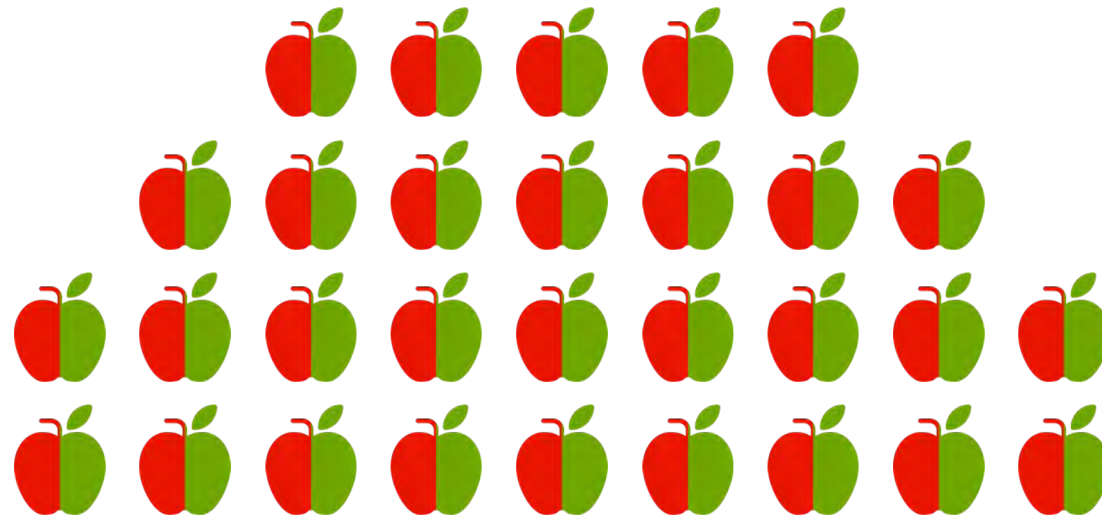


Don't Like Apples



Likes Apples

We look like this.



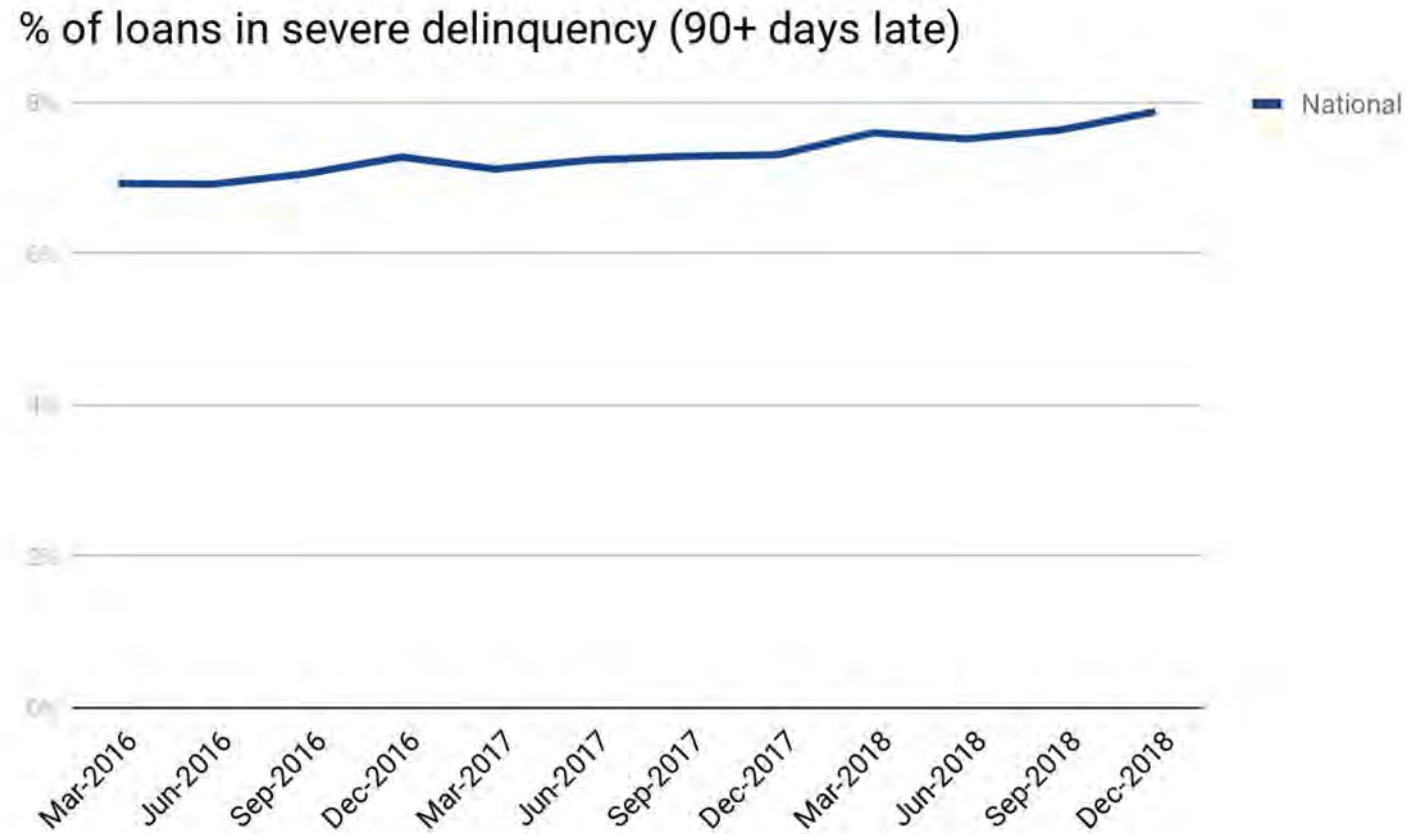
Hate apples

Loves apples

**Our environment shapes our
behavior and our choices
more than information alone.**

An Example:

National auto loan delinquency



**What can we do to make
repayment easier?**

Syncing income to repayment

If people schedule their loan repayment for days when they know they'll have money, this should:

- 1) decrease late payments and loan defaults
- 2) help consumers anticipate and manage their cash flow





Recurring Payments

Name _____

Phone Num. _____

Car Make _____

Car Model _____

Set up automatic payments that **match when you get paid!**

(A) Monthly Total Car Payment _____

(B) Times You Get Paid per Month _____

(C) Amount per Payment ($A \div B$) _____

Paid when paychecks **enter your account**

1. THE SAME DAY OF THE WEEK

Weekly on _____

Bi-weekly on _____

Monthly on the _____

OR

2. ON SPECIFIC DATES

1x Monthly on the _____

2x Monthly on the _____ and _____

I completed a Welcome Call & changed my monthly due date to match when I get paid.

My monthly due date is _____

My **recurring payments** will start on _____

**First paycheck deposit date after you make your first full monthly payment*

To be paid by *either by*

1. ELECTRONIC CHECK

Bank Name _____

Checking OR Savings

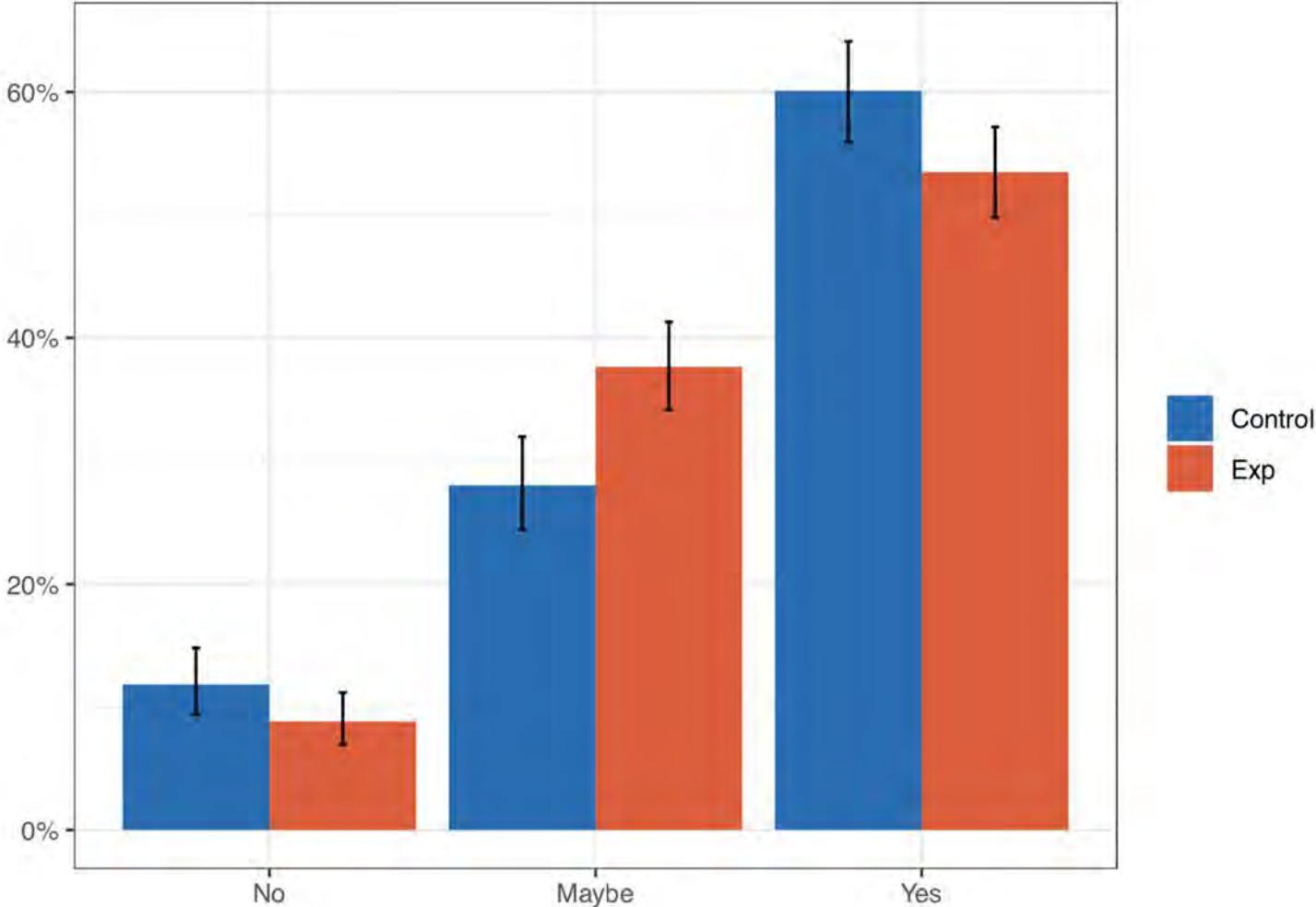
(Example check)



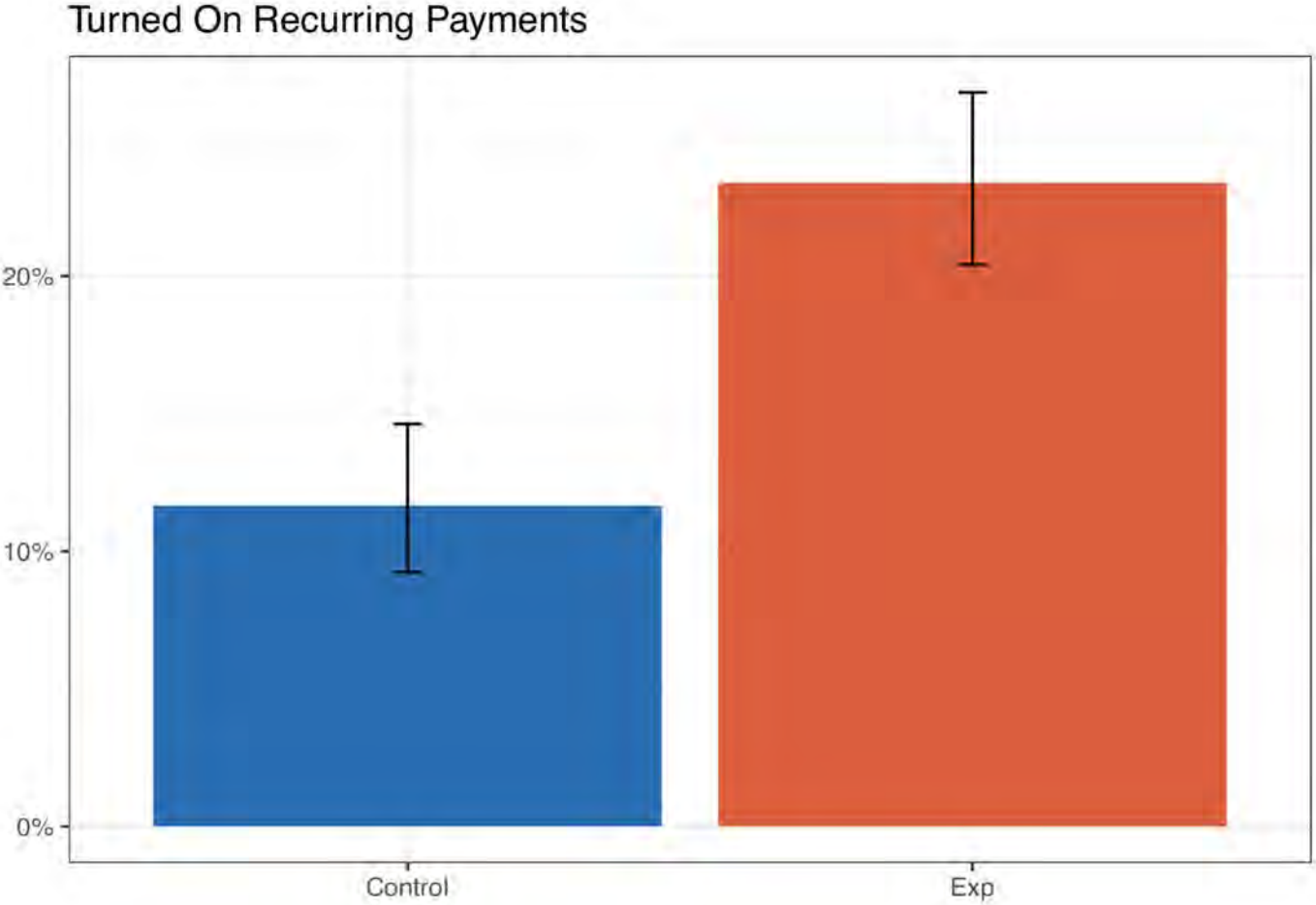
Routing Num. _____

Account Num. _____

Interest in enrolling in automatic, synced payments is equal...

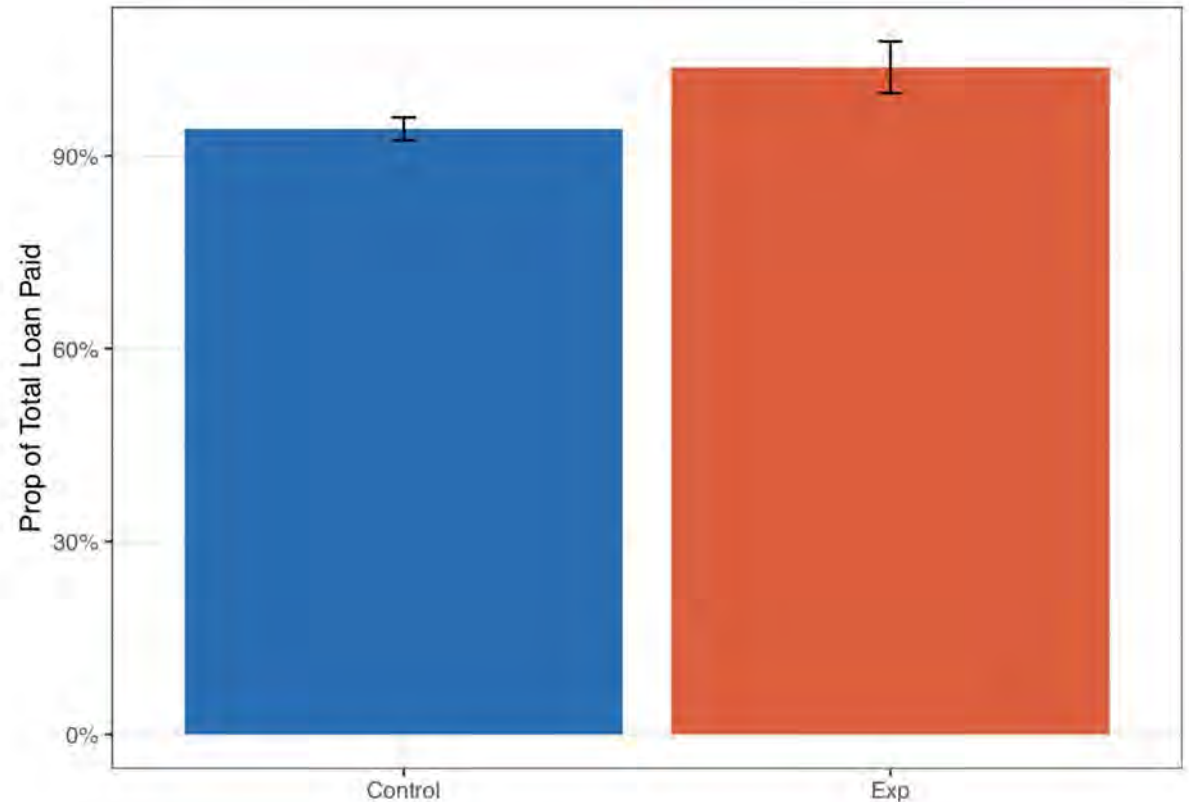


...But the texted group actually does it



Make it easy!

- The synced group was on track with their loan payments while the control was slightly behind
- Only 17 people defaulted; all were in the control group



3 Things to Remember

Most Decisions are Made with Shortcuts



Info Alone Doesn't Change Behavior

0.3%

The percent of variance in financial behaviors explained by content-based, financial education interventions*

* Based on a meta-analysis of 458 treatment effects (Kaiser, Lusardi, Menkhoff, & Urban, 2020)

Change Environment to Change Behavior

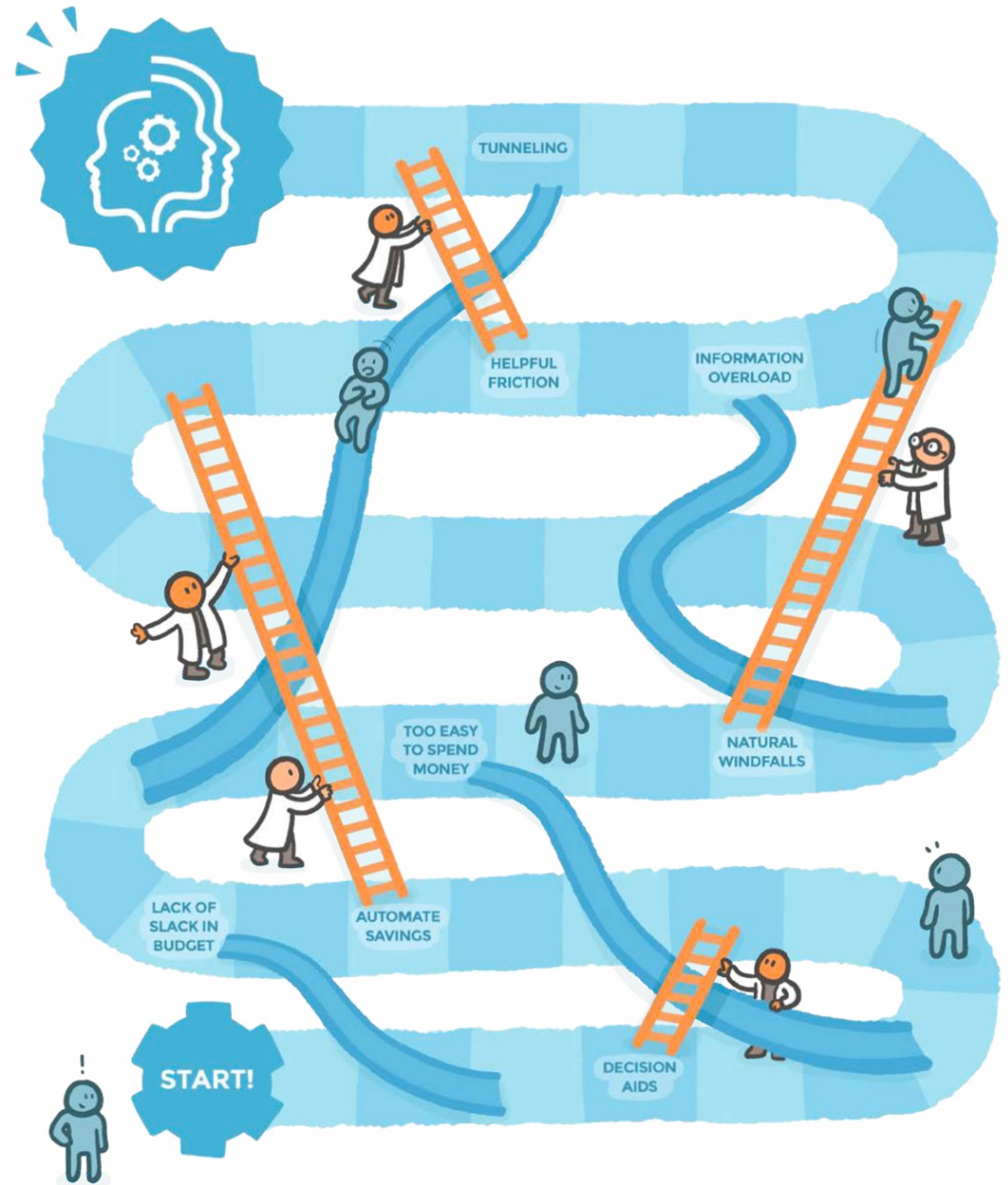


Becoming a Choice Architect

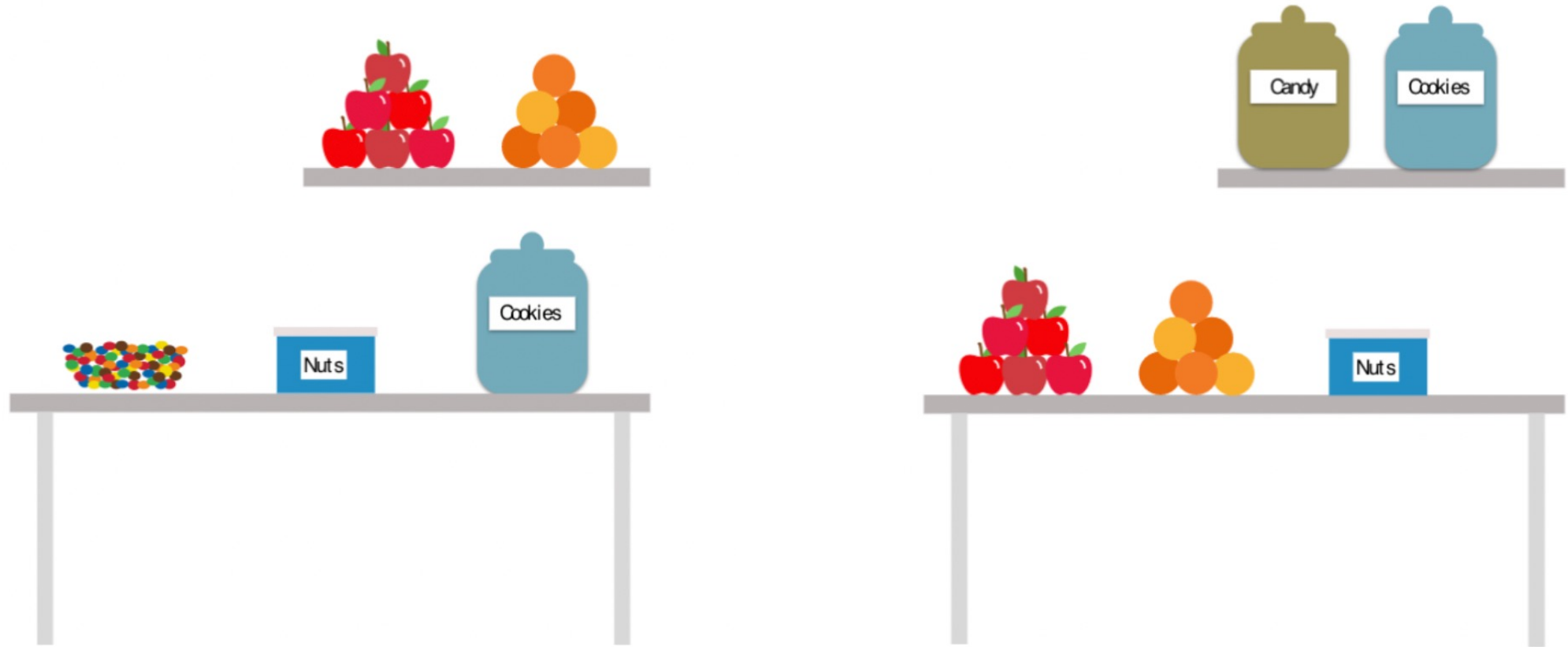
I THINK I'LL SKIP
MY APPOINTMENT.














Choice Architecture:
Designing the context in which people make decisions



There is no neutral design














VOTE FOR NO MORE THAN THREE CANDIDATES

1	AARON Lawrence Aaron 17 Newington Road, London N1 6FG Liberal Democrats		
2	CHADWELL Gertrude Chadwell 22 Some St, London N1 2AB UK Independence Party		
3	CROUSE Justin Crouse (Address in constituency) The Labour Party Candidate		
4	DEBOSE Joanne Debose 16 Acer Avenue, London NW4 8XT Green Party		
5	HANDY William Handy (Address in constituency) The Labour Party Candidate		
6	HOOPER Malcolm Hooper (Address in constituency) The Conservative Party Candidate		
7	KOZLOWSKI Michael Kozlowski (Address in constituency) The Conservative Party Candidate		
8	NOOR Anjit Noor (Address in constituency) The Labour Party Candidate		
9	PFEIFFER Dale Pfeiffer 103 Elephant Way, London NW1 8RH Liberal Democrats		
10	TALLY Deborah Tally (Address in constituency) The Conservative Party Candidate		
11	WHITFIELD Sarah Whitfield 45 Kingham Place, London N1 6SL Liberal Democrats		
12	YILMAZ Shaquil Yilmaz 4 Pocklington Walk, London N1 5DS Independent Candidate		

**This is your ballot.
It's your choice.**

VOTE FOR NO MORE THAN THREE CANDIDATES

1	AARON Lawrence Aaron 17 Newington Road, London N1 6FG Liberal Democrats		
2	CHADWELL Gertrude Chadwell 22 Some St, London N1 2AB UK Independence Party		
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12	YILMAZ Shaquil Yilmaz 4 Pocklington Walk, London N1 5DS Independent Candidate		

It's good to be named Aaron if your voting board uses alphabetical ballots!

**We are all
choice architects**

Becoming a
“behaviorally-informed”
choice architect



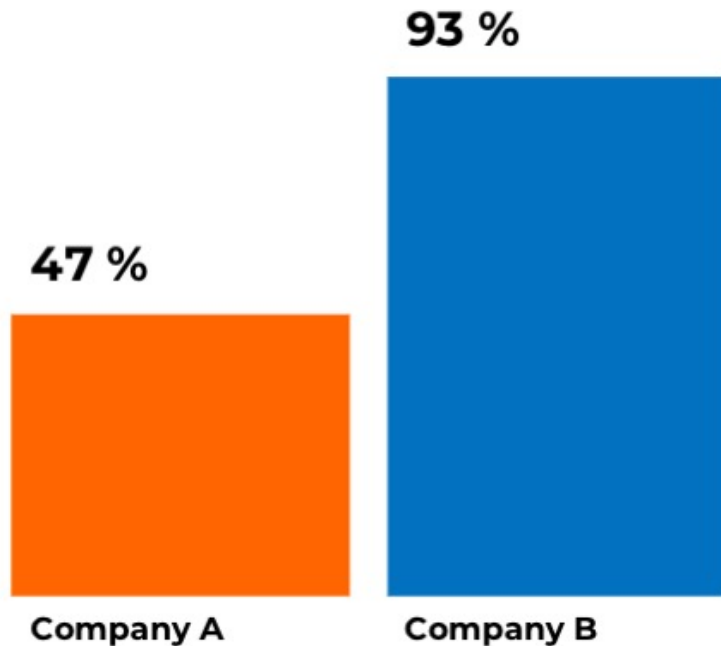
Behavioral Science

informs



Diagnosis

What drives the decision to save for retirement?



Voluntary enrollment:

Opt-in if you **want to** save for retirement

Default enrollment:

Opt-out if you **don't want** to save for retirement

Every form,
every click,
every field,
every signature,
every step,
every call,
every **choice matters**

Let's say we have a form with 11 fields..

...we reduce it to 4 fields

+160%

form submissions

The paradox of choice:

How much choice is too much?



The paradox of choice:

How much choice is too much?



Each additional 10 investment choices
cut participation rates by an additional 2%



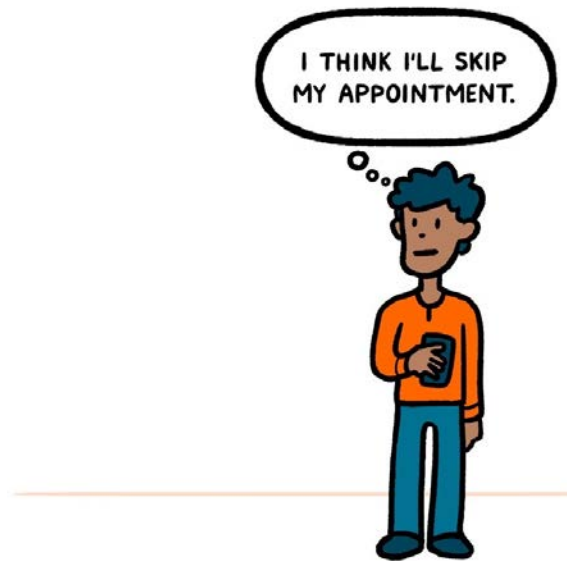
Behavioral Science

informs



Design decisions

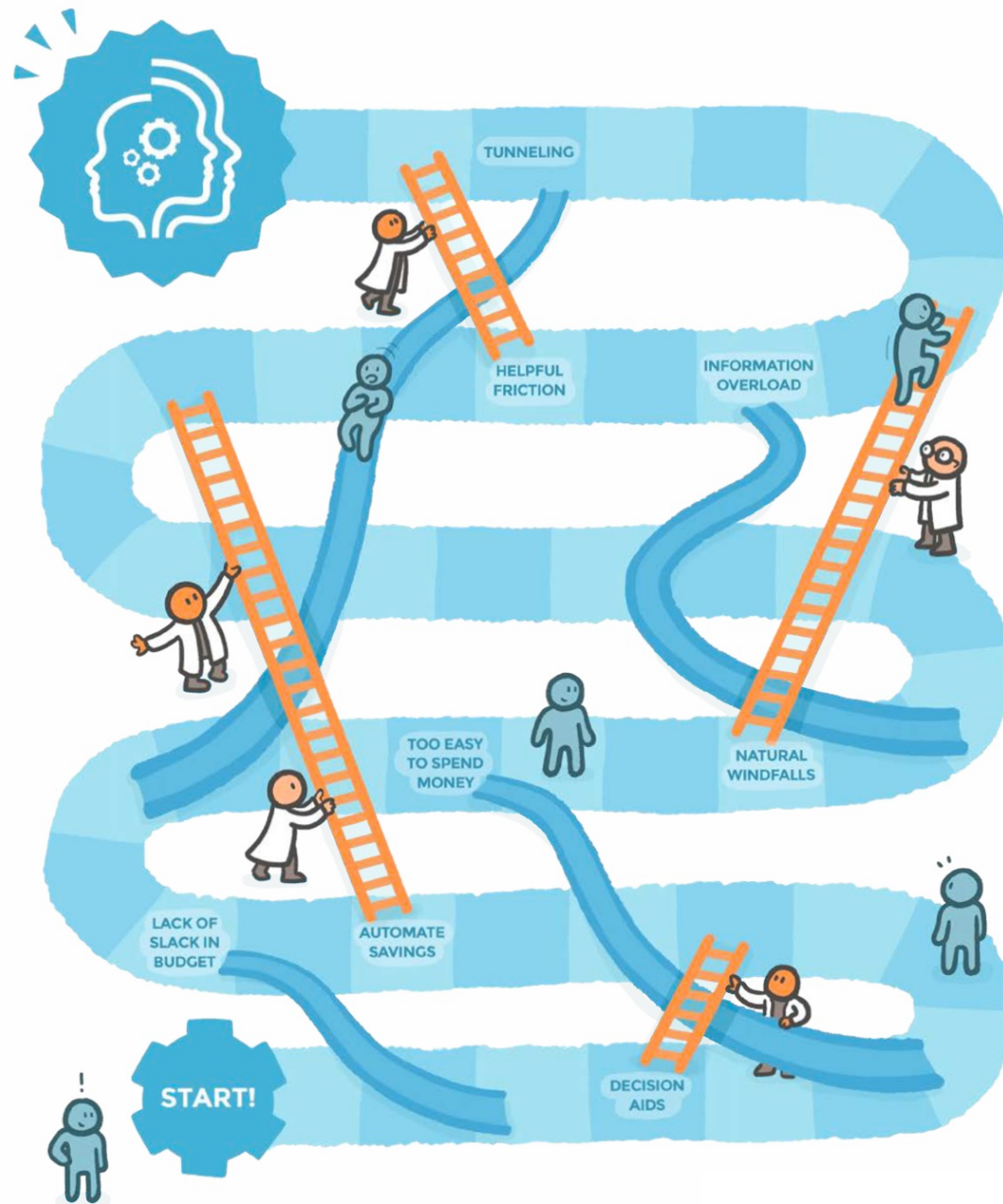
from
**Changing
minds**



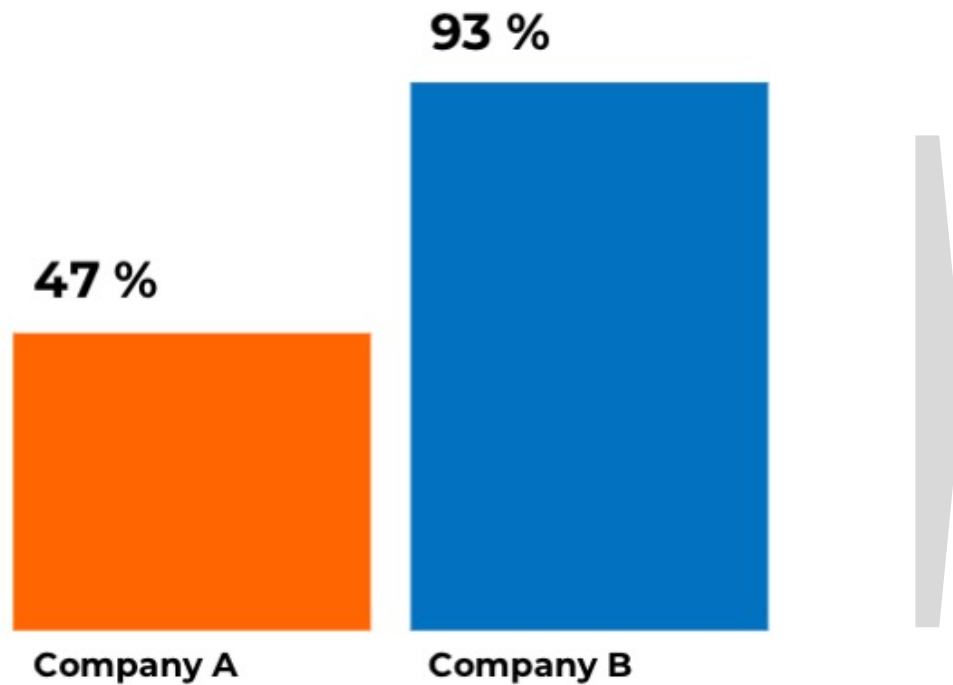
to
**Changing
environments**



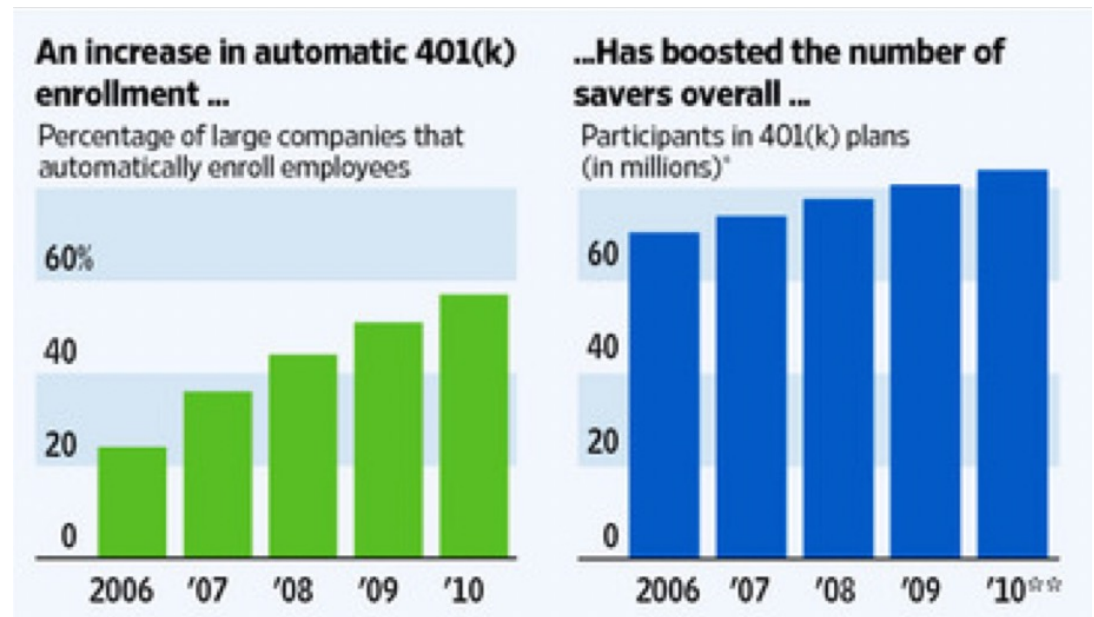
Set your users
up for success
by
making it easy!



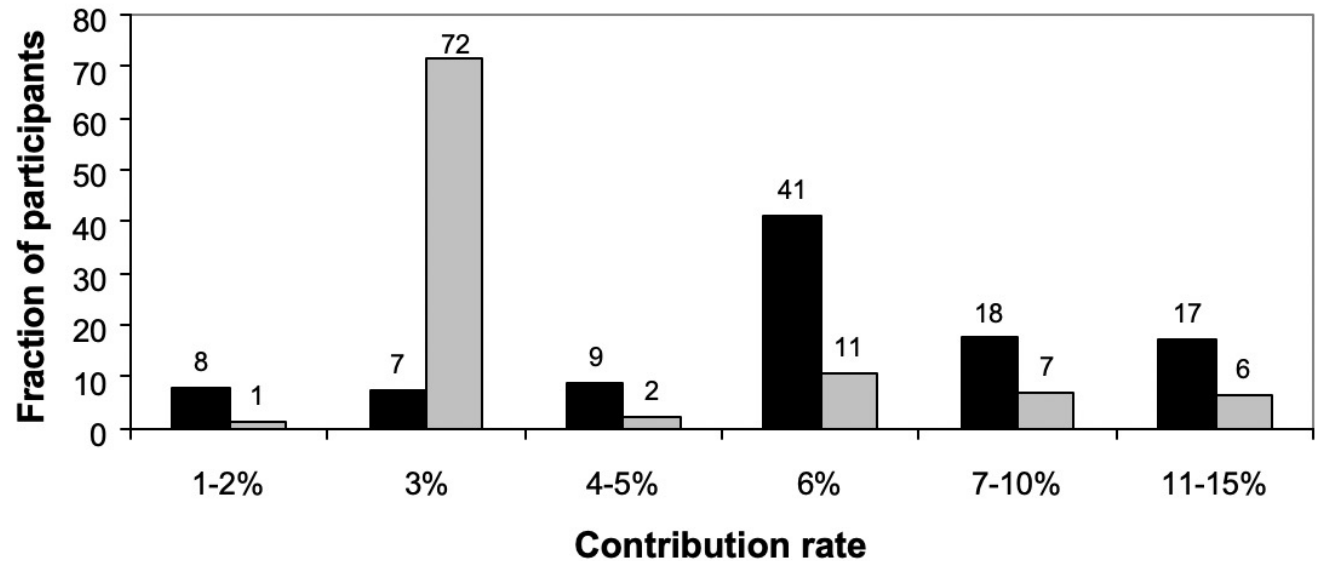
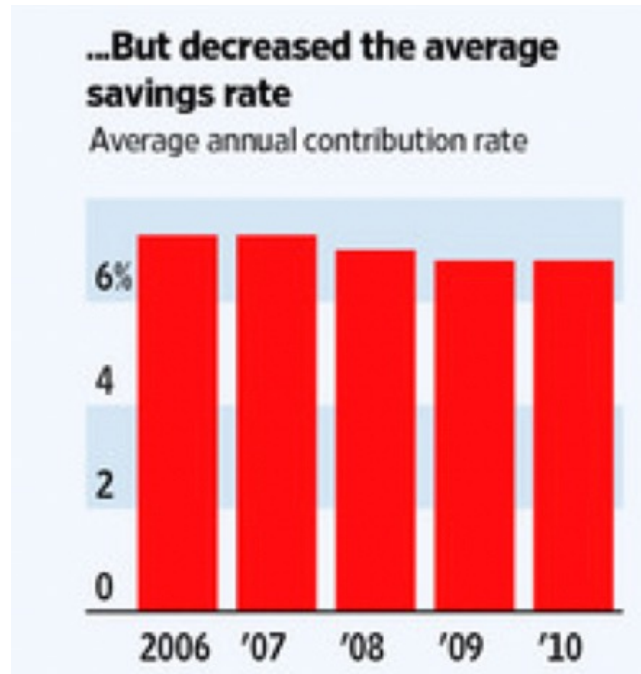
Solution 1: Use defaults (wisely)



“The biggest thing to happen to America’s saving rate”



Solution 1: Use defaults (wisely)

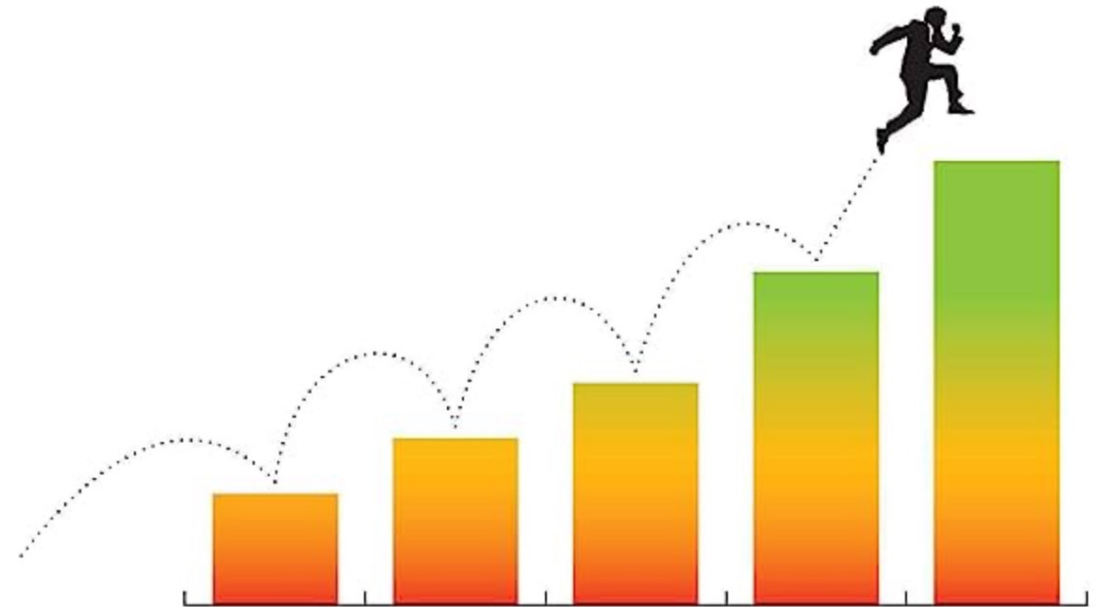


- Automatic enrollment
- Voluntary enrollment

Solution 2: Automate the right behavior

Save More Tomorrow:

- Payroll-based savings
- Pre-commit today for future raises tomorrow
- **Automatic escalation** with each pay rise
- Opt-out at any time

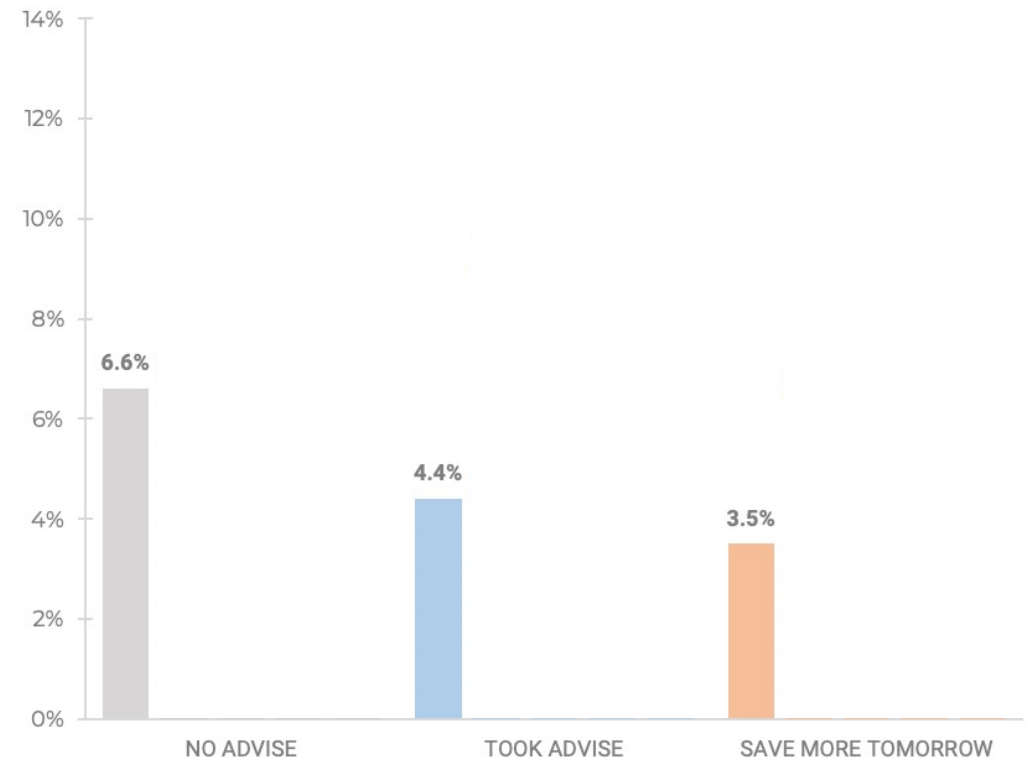


Solution 2: Automate the right behavior

Save More Tomorrow:

- Payroll-based savings
- Pre-commit today for future raises tomorrow
- **Automatic escalation** with each pay rise
- Opt-out at any time

Saving rates before pay rise...

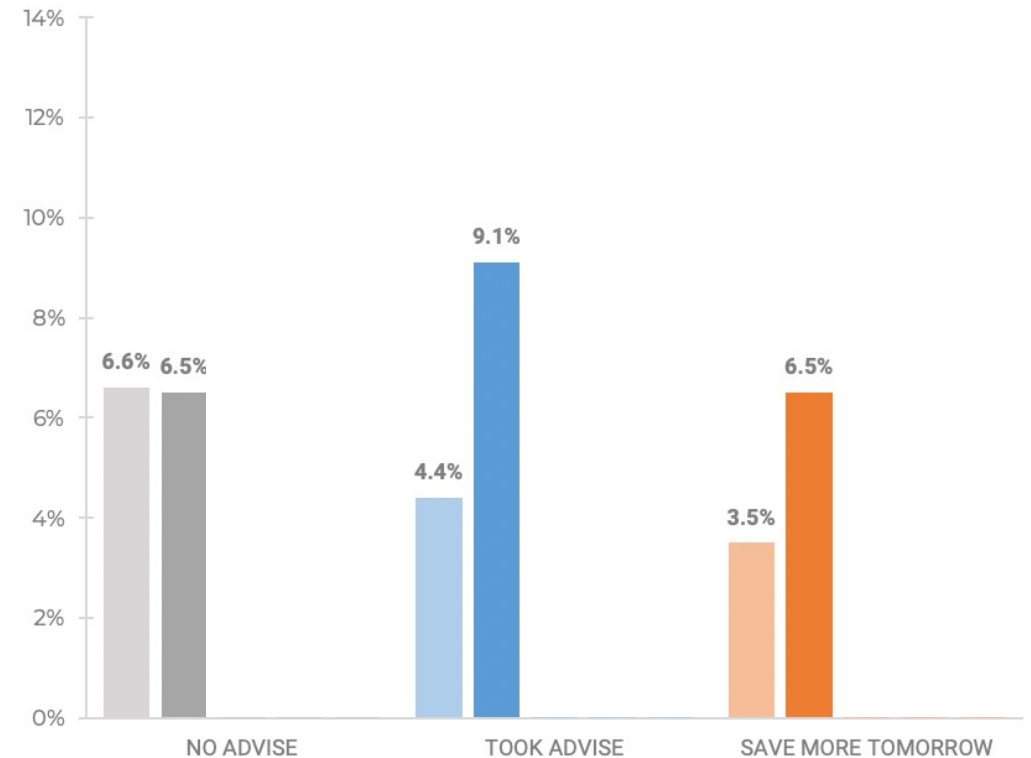


Solution 2: Automate the right behavior

Save More Tomorrow:

- Payroll-based savings
- Pre-commit today for future raises tomorrow
- **Automatic escalation** with each pay rise
- Opt-out at any time

Saving rates after 1st pay rise...

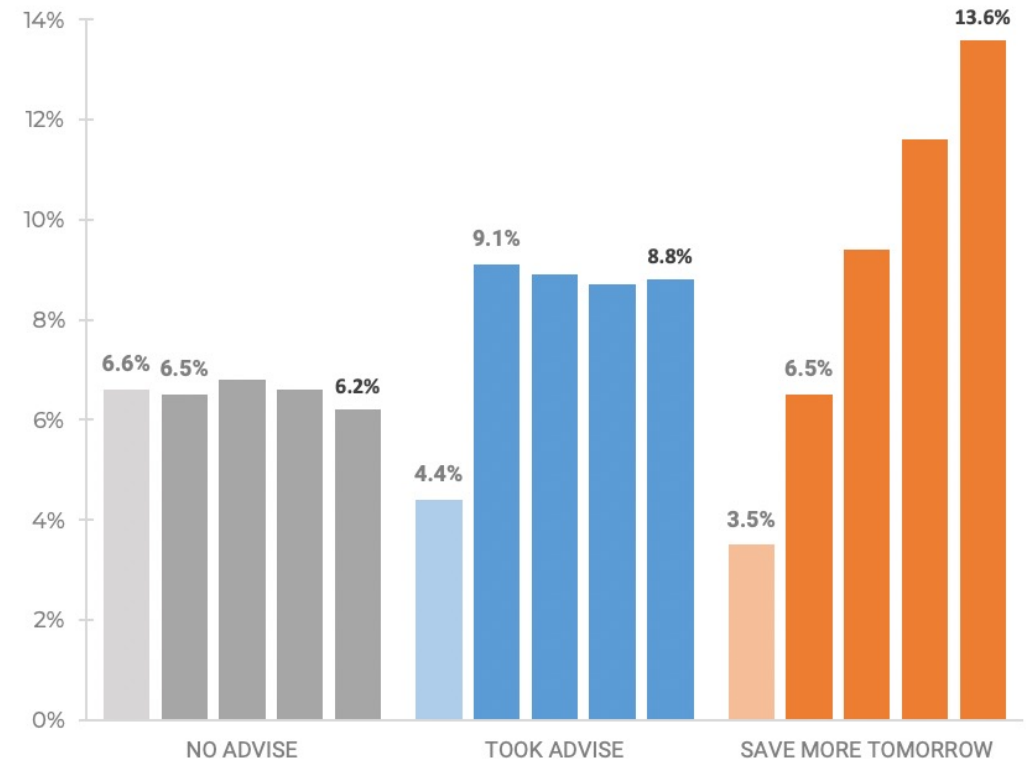


Solution 2: Automate the right behavior

Save More Tomorrow:

- Payroll-based savings
- Pre-commit today for future raises tomorrow
- **Automatic escalation** with each pay rise
- Opt-out at any time

Fast forward to 4th pay rise...



Solution 3: Simplify complex choice

Condition 1: \$100 prompt



Be ready for the unexpected with an Emergency Fund

An emergency fund can protect you and your savings if something goes wrong.

Emergency funds can be used for things like car repairs, home maintenance or dental bills.

We recommend setting a target of **\$100** to get you started



Set and Forget Rule
Save \$7 each week



Set up your Emergency Fund

I already have an emergency fund

Condition 1: \$500 prompt



Be ready for the unexpected with an Emergency Fund

An emergency fund can protect you and your savings if something goes wrong.

Emergency funds can be used for things like car repairs, home maintenance or dental bills.

We recommend setting a target of **\$500** to get you started



Set and Forget Rule
Save \$7 each week



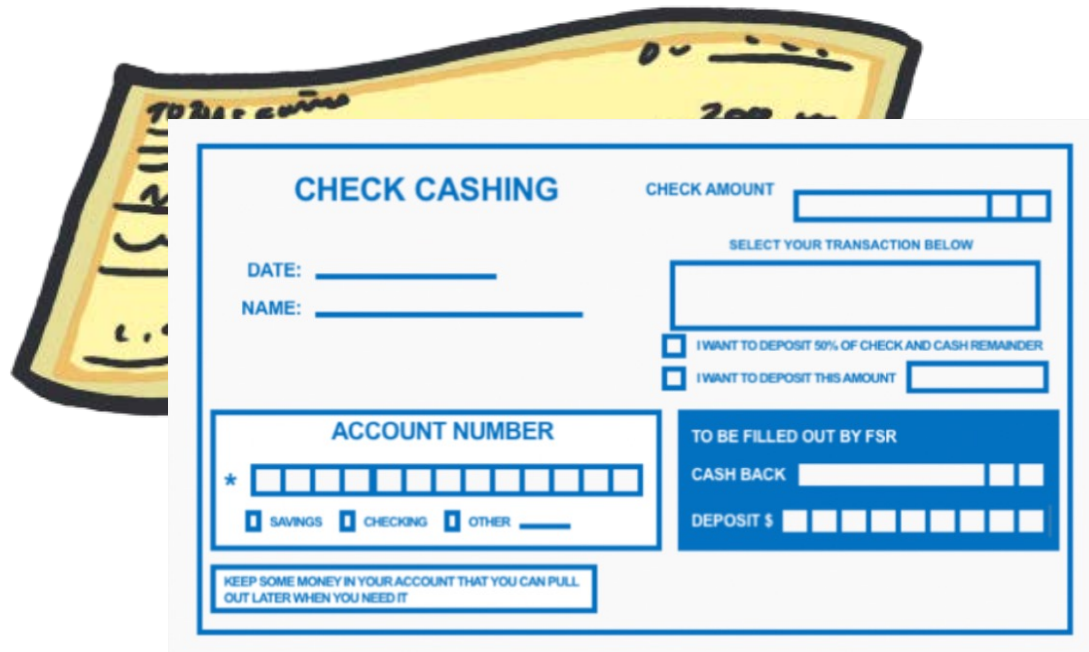
Set up your Emergency Fund

I already have an emergency fund

PERCENTAGE OF USERS WITH EMERGENCY SAVINGS GOAL



Solution 4: Add friction when necessary



The image shows a yellow check partially obscured by a white check cashing form. The form is titled "CHECK CASHING" and contains several fields and checkboxes. The fields include "CHECK AMOUNT", "DATE:", "NAME:", "ACCOUNT NUMBER", "CASH BACK", and "DEPOSIT \$". The checkboxes include "I WANT TO DEPOSIT 50% OF CHECK AND CASH REMAINDER", "I WANT TO DEPOSIT THIS AMOUNT", "SAVINGS", "CHECKING", and "OTHER". A note at the bottom of the form reads: "KEEP SOME MONEY IN YOUR ACCOUNT THAT YOU CAN PULL OUT LATER WHEN YOU NEED IT".

9.26%

decided to make a deposit

\$262

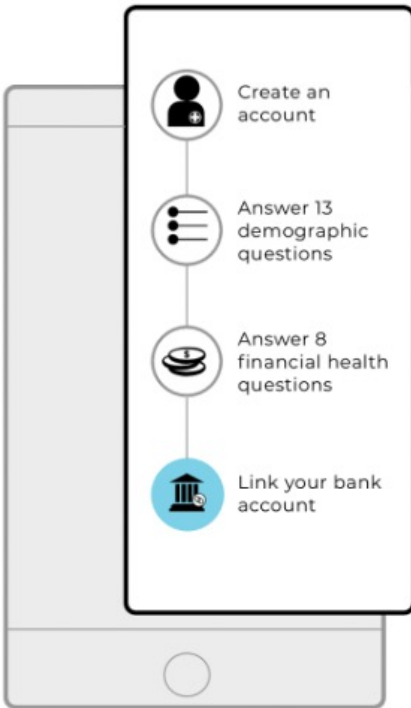
deposited on average

2.1M

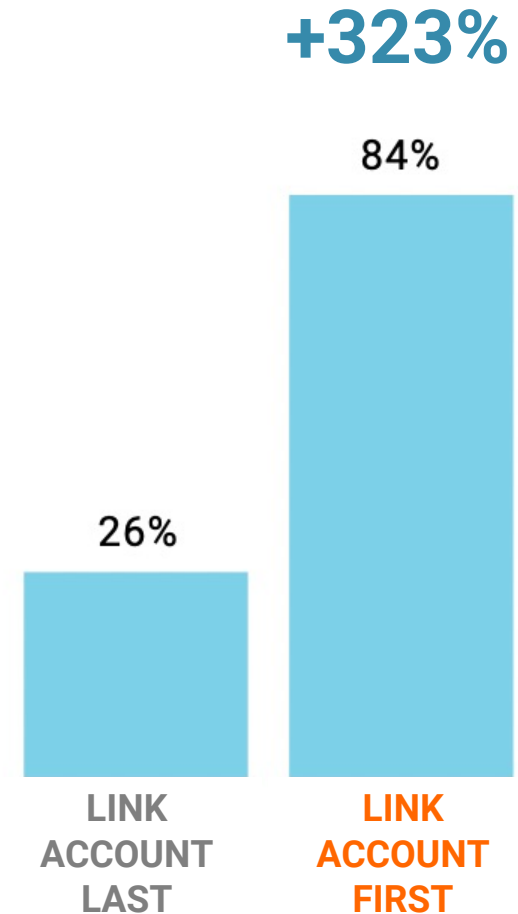
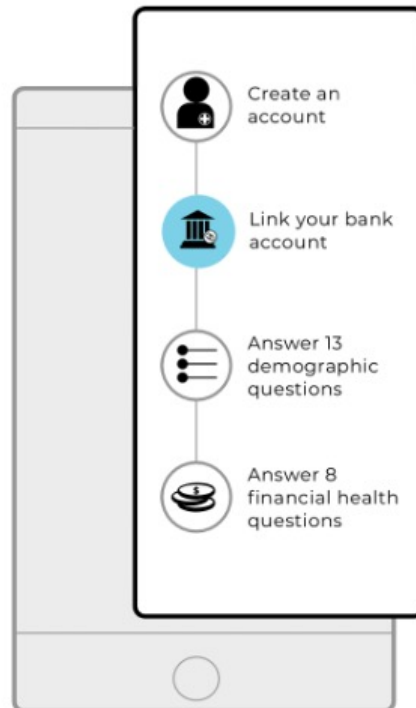
yearly deposits estimate

Bonus Track: structural changes do not need to be costly

Control:
Link account last

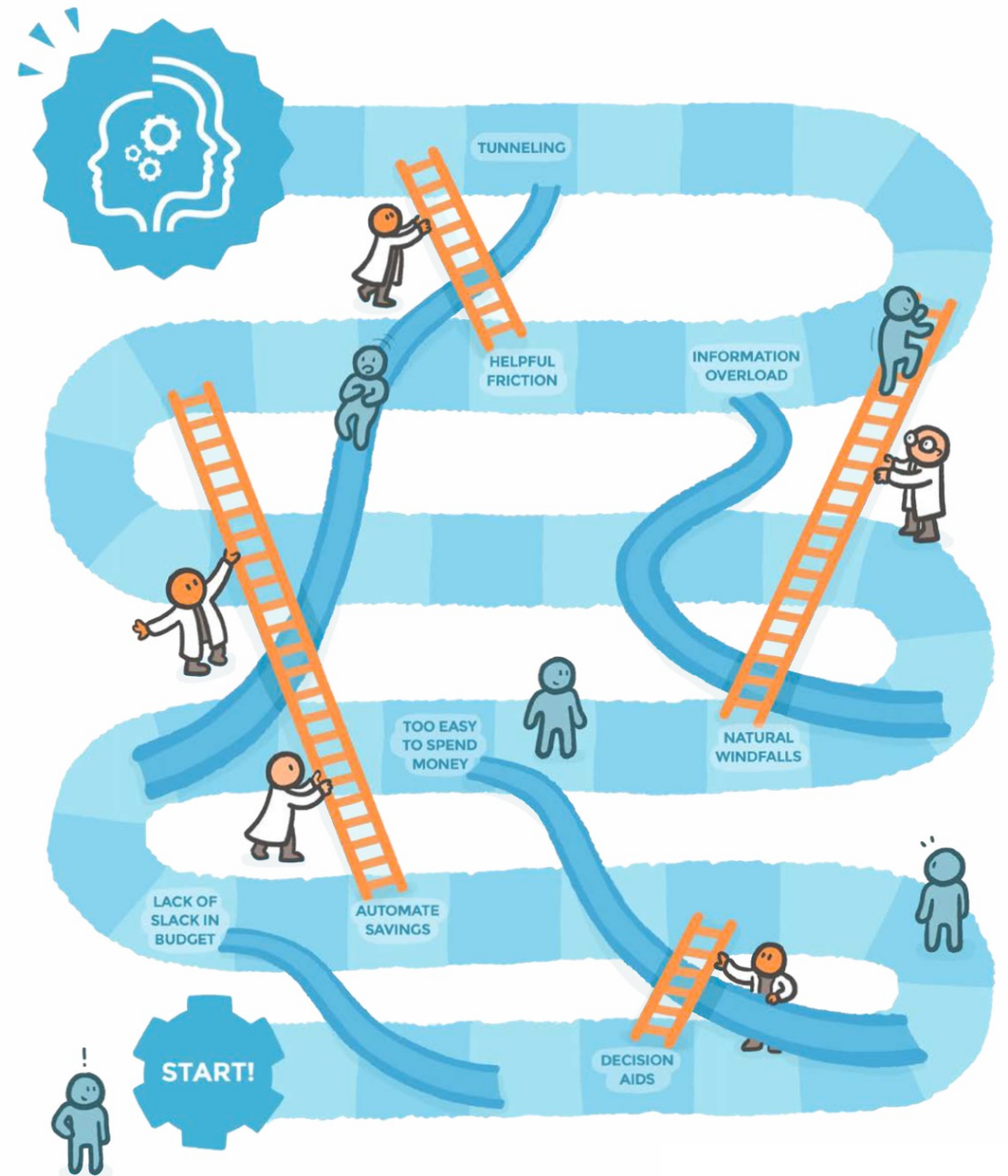


Condition:
Link account first



Set your users up for success by **making it easy!**

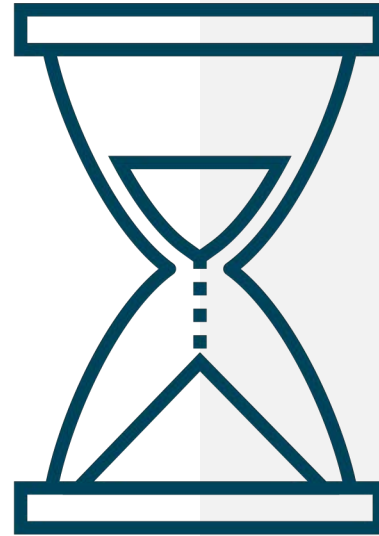
- 1 Use defaults (wisely)
- 2 Automate the right behavior
- 3 Simplify complex choice
- 4 Add friction when necessary



Layering Interventions for Maximum Effect

**To what age do you
expect to live?**

85.0

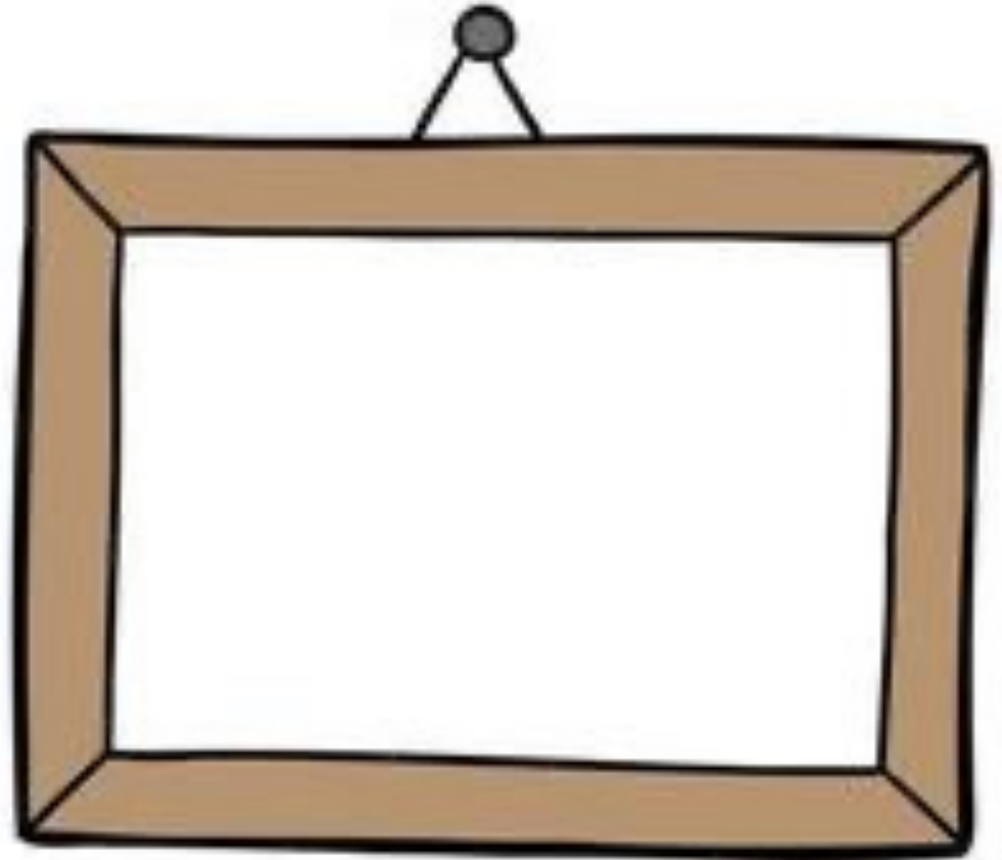


**By what age do you
expect to die?**

75.1

Framing effect

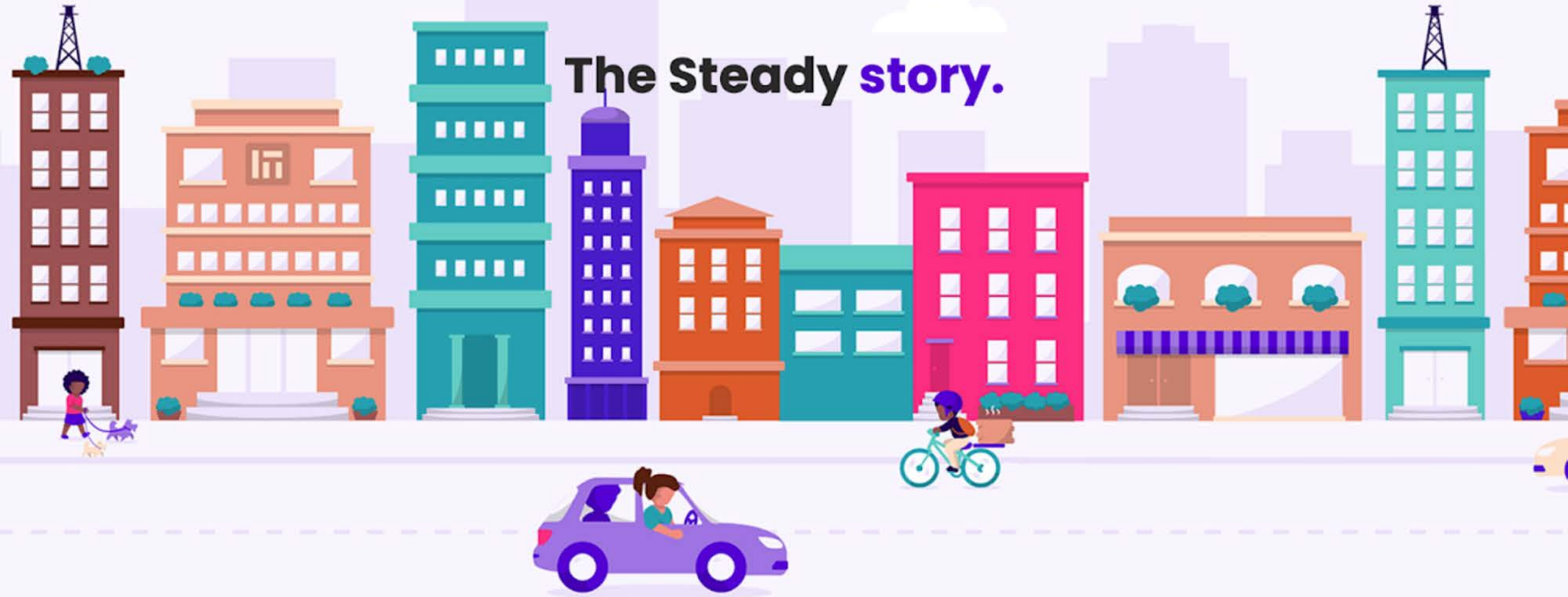
Our decisions are impacted by the way in which choices are framed through copywriting, imagery, tone and placement.



**Grab attention and emphasize
immediate benefits**



The Steady story.



Identify psychological barriers at play



Status quo bias: Skipping this step is easy and the costs are invisible.

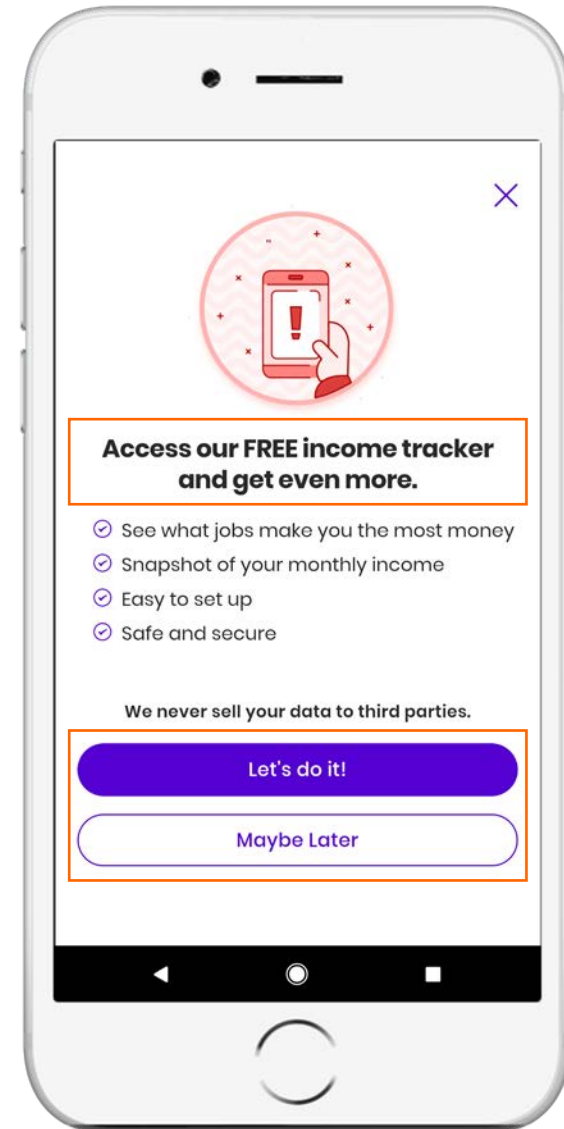


Procrastination: Behaviors without a deadline are pushed into an optimistic future.



Intention-action gap: “Maybe” or “later” becomes no, despite our best intentions.

Control



Emphasize or add benefits to change behavior now



Status quo bias: Skipping this step is easy and the costs are invisible.

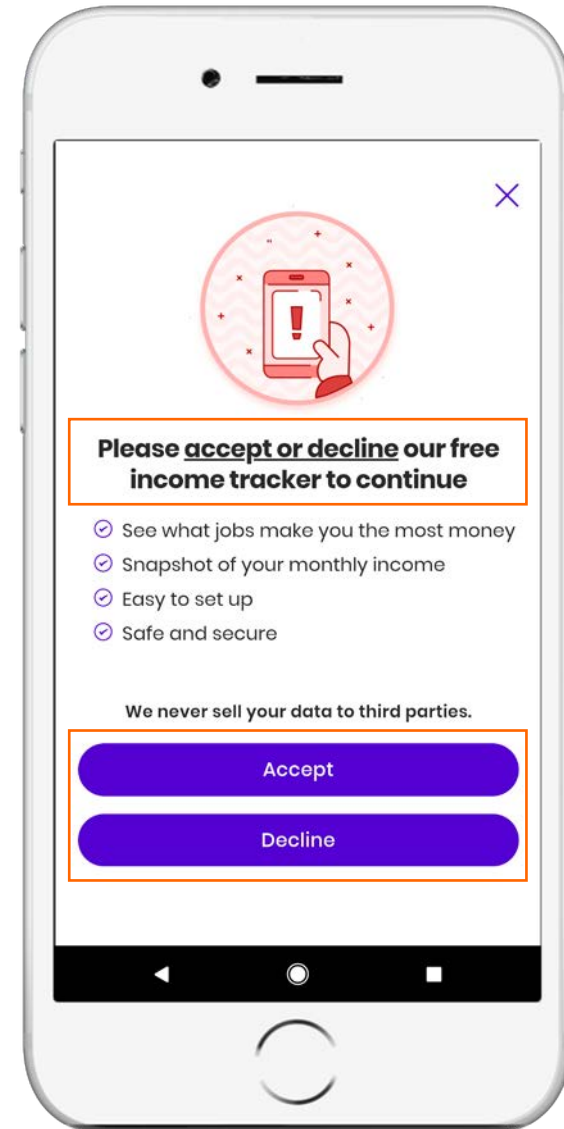


Procrastination: Behaviors without a deadline are pushed into an optimistic future.



Intention-action gap: “Maybe” or “later” becomes no, despite our best intentions.

Forced choice



Emphasize or add benefits to change behavior now

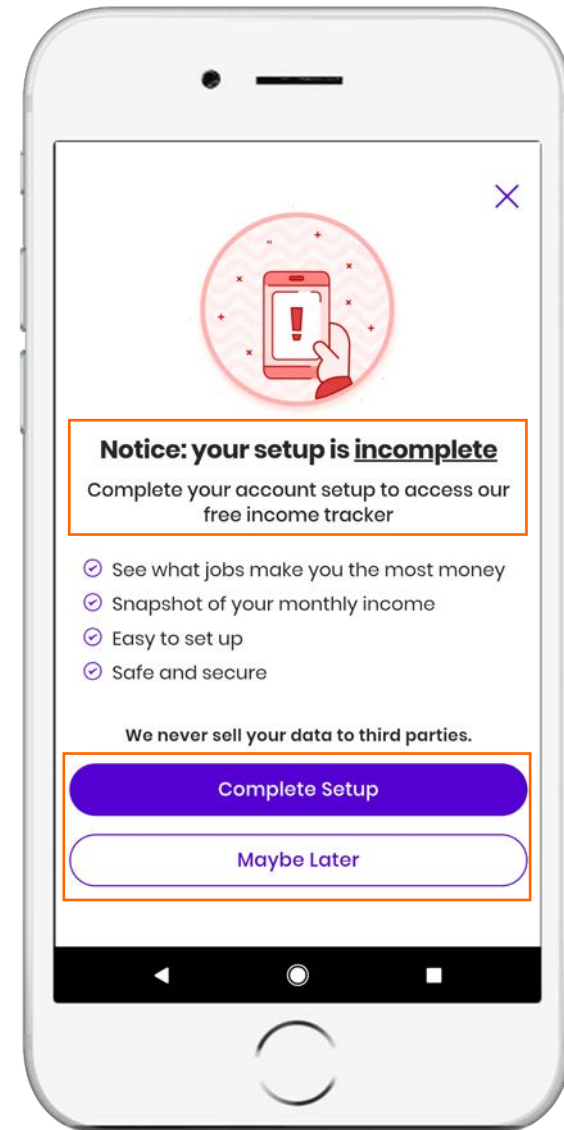


Completion bias: As the end approaches, people become more motivated to complete a task.

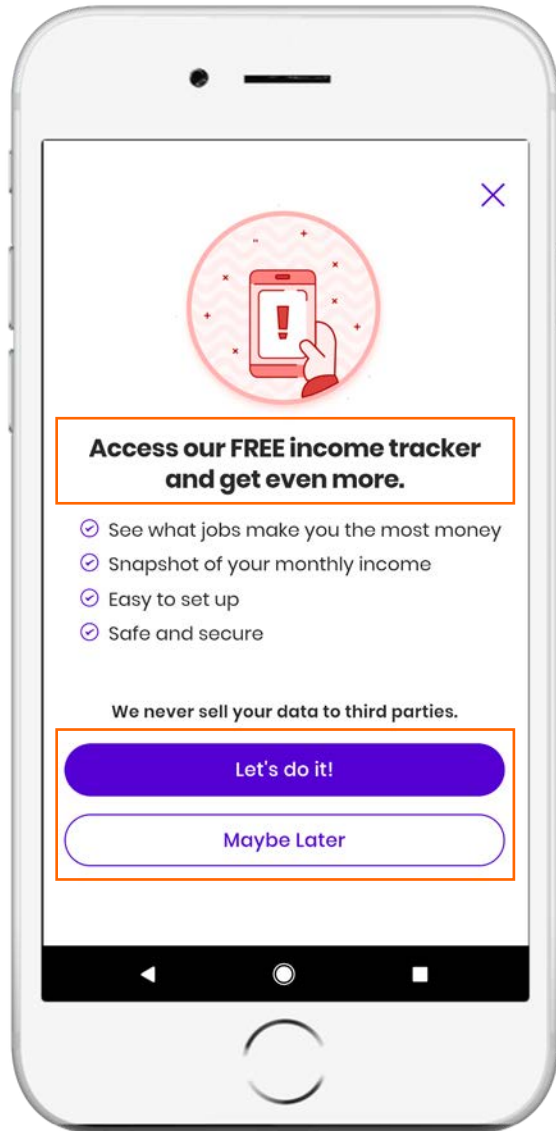


Error avoidance: People look for order and harmony and seek to fix what's broken.

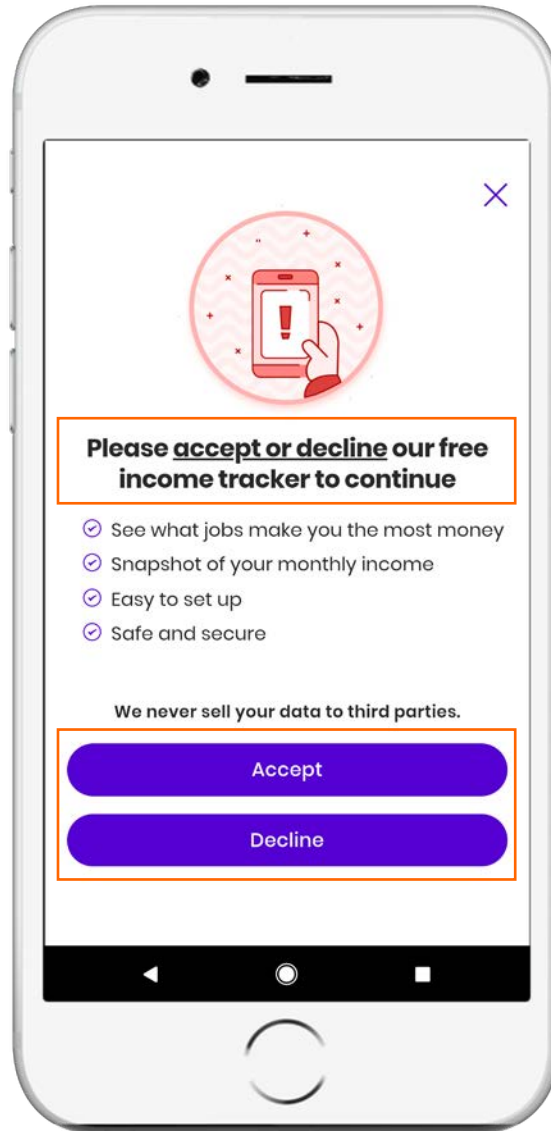
Incomplete information



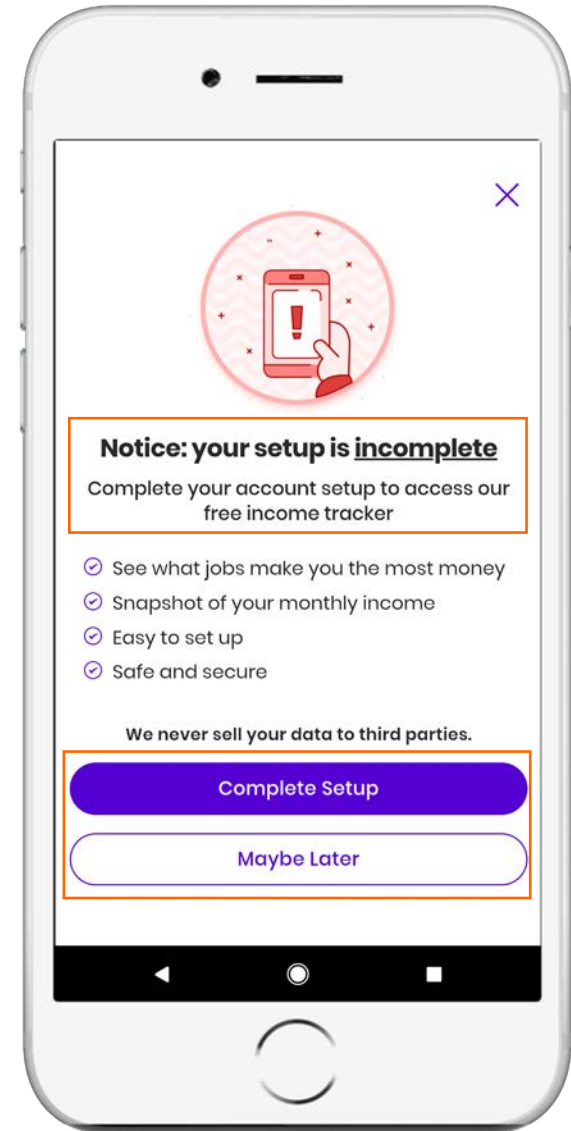
Control



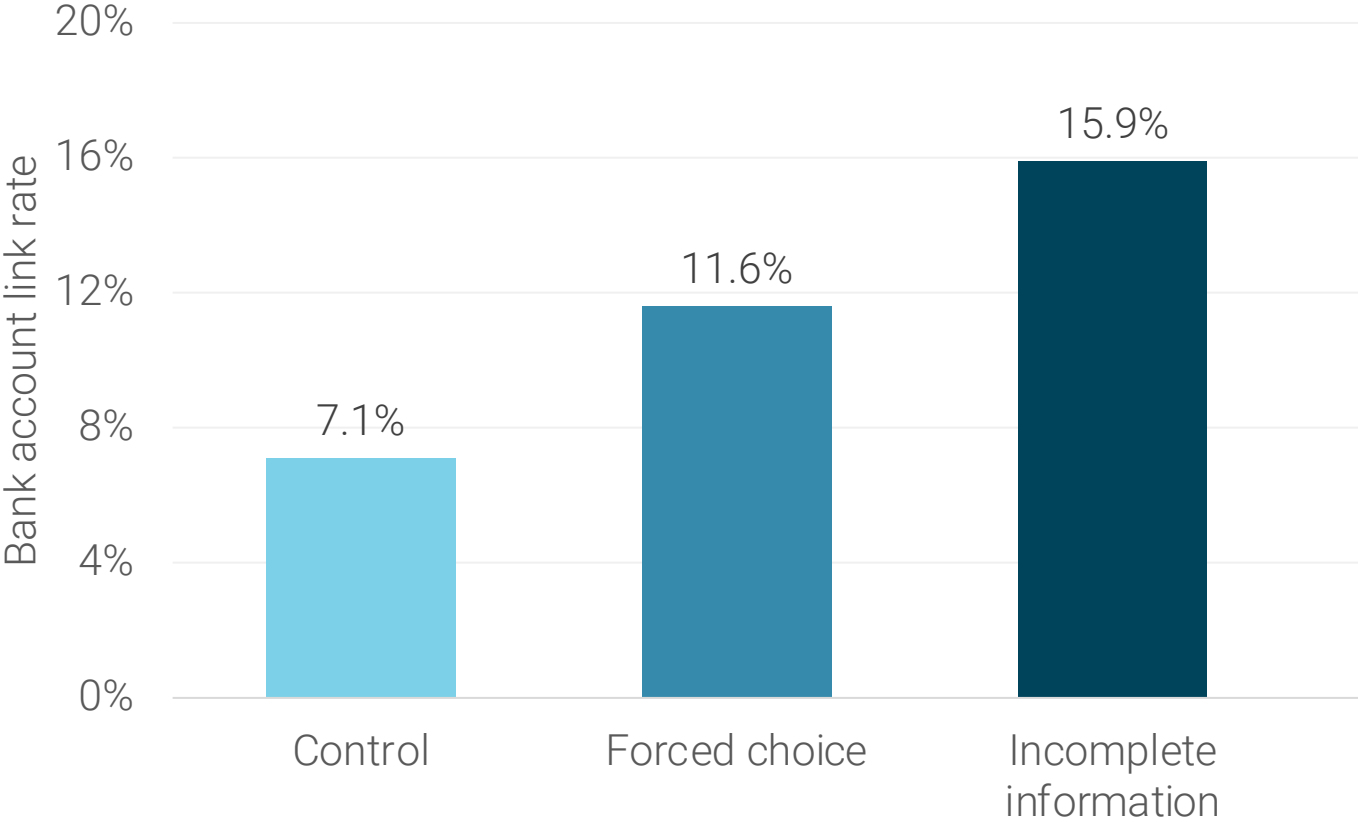
Forced choice



Incomplete information

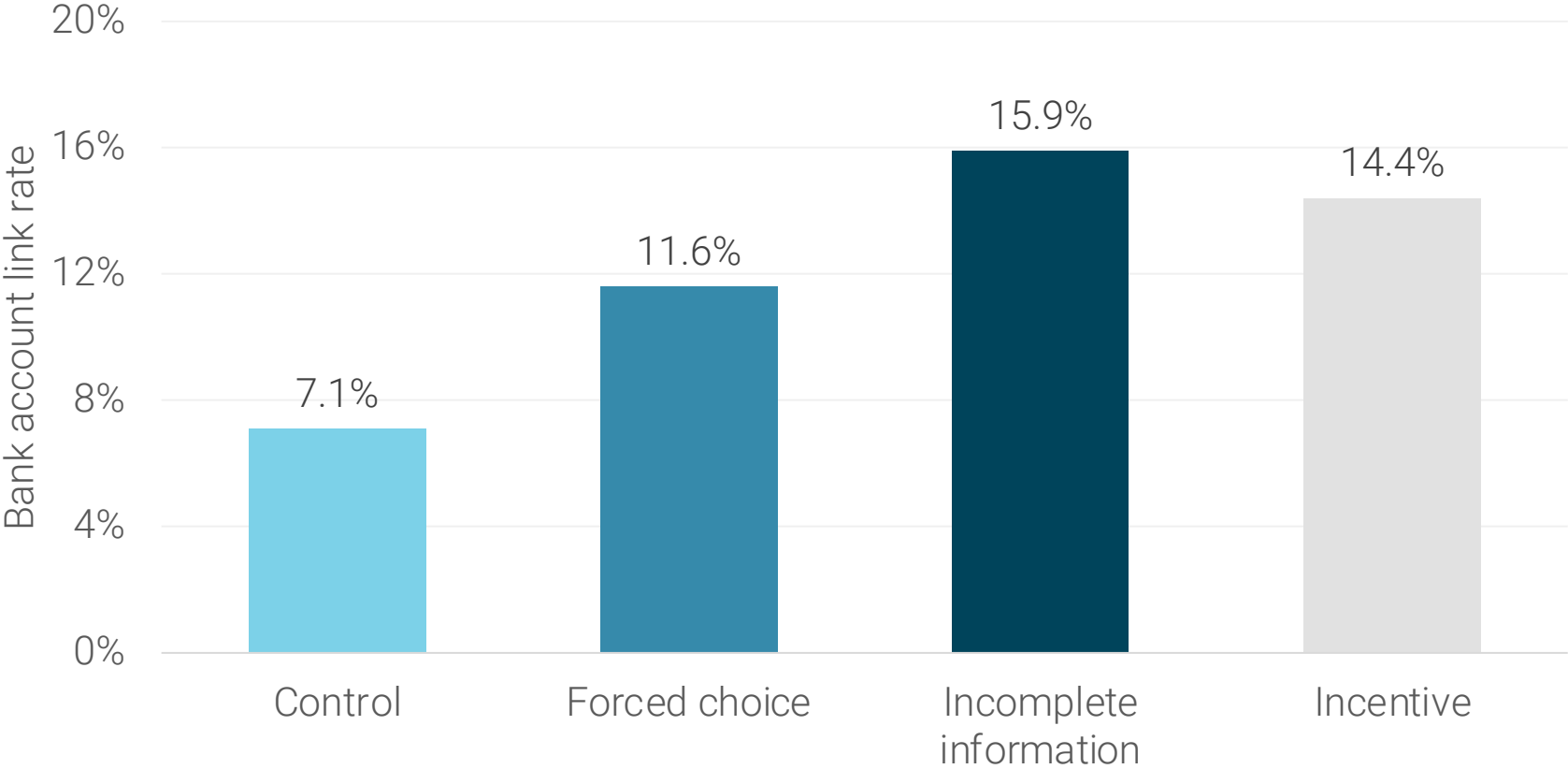


Both conditions led to higher link rates compared to the control



All conditions statistically significantly different at $p < 0.001$

Both conditions led to higher link rates compared to the control



All conditions statistically significantly different at $p < 0.001$

Use contextual and social cues to guide behavior

Social norms

People's behaviors are shaped by **what others do** (descriptive norms) & by **what others think they should do** (injunctive norms).

Why do social norms work?

- Form accurate perceptions of reality
- Develop meaningful relationships
- Maintain favorable self concept



**How might we use
social norms to help
people decrease
their spending?**

**Curious what other
people like you spend
on eating out?**



Arizona Federal Credit Union worked with
Common Cents Lab to let you compare your
spending to people like you.

**MOST
PEOPLE
LIKE YOU
SPEND
\$122**

**YOU
SPEND
\$410**



You are spending **MORE THAN MOST** people like you.

Thinking ahead to the future, how do you think your monthly spending on eating out will change?

**Reduce
Spending**

**Keep the
same**

**Increase
Spending**

**MOST
PEOPLE
LIKE YOU
SPEND
\$122**

**YOU
SPEND
\$410**

\$17



You are spending **MORE THAN MOST** people like you.

Decrease in
spending among
people who were told
they were
overspending very
badly.

Thinking ahead to the future, how do you think your
monthly spending on eating out will change?

**Reduce
Spending**

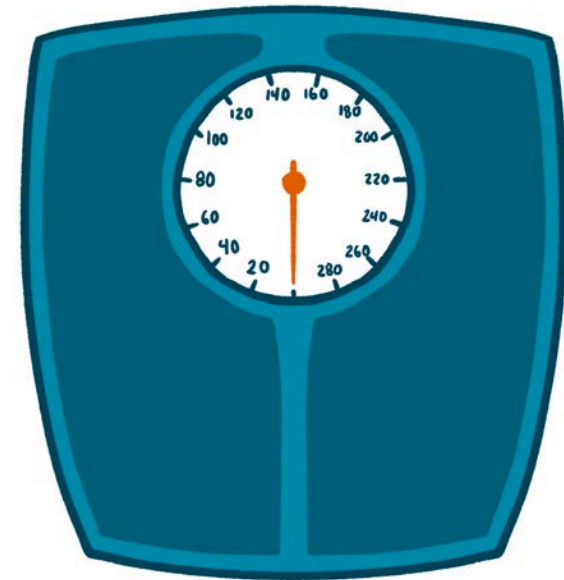
**Keep the
same**

**Increase
Spending**

**Prompt users when most
receptive**

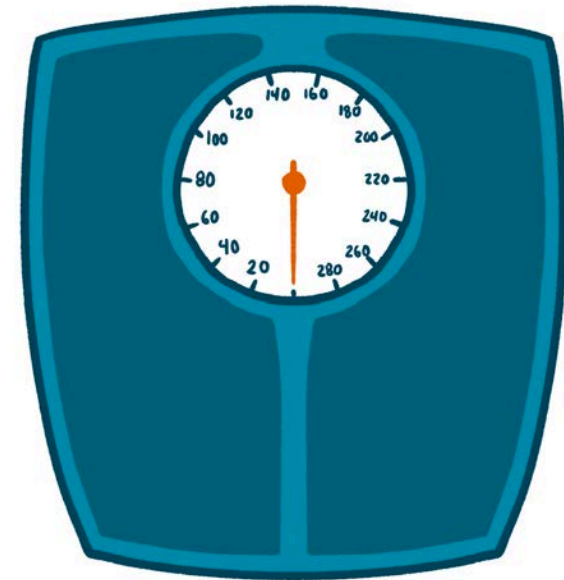
Natural “moments” of receptiveness

Activity-driven	Gmail prompts
Daily	Scale before breakfast
Monthly/bimonthly	Payday
Annual	New Year’s resolutions
Season of life	Birth of a child



Natural “moments” of receptiveness

Activity-driven	Gmail prompts
Daily	Scale before breakfast
Monthly/bimonthly	Payday
Annual	New Year’s resolutions
Season of life	Birth of a child



What should you do when there's no natural moment?

Creating a moment

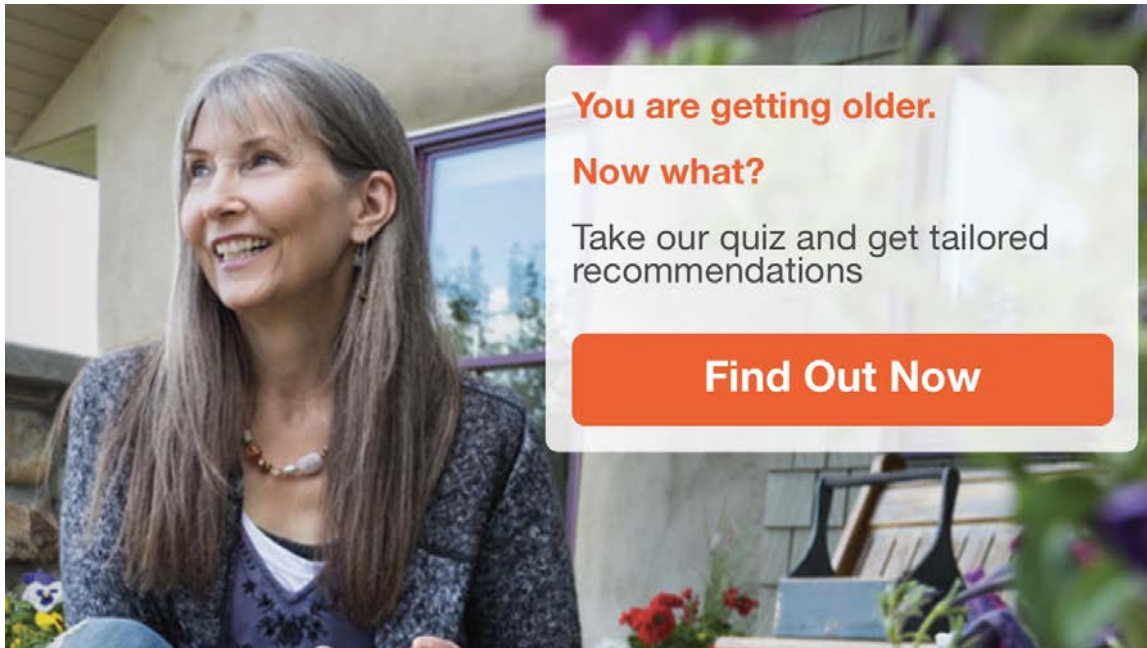
Home Sweet *Shared* Home



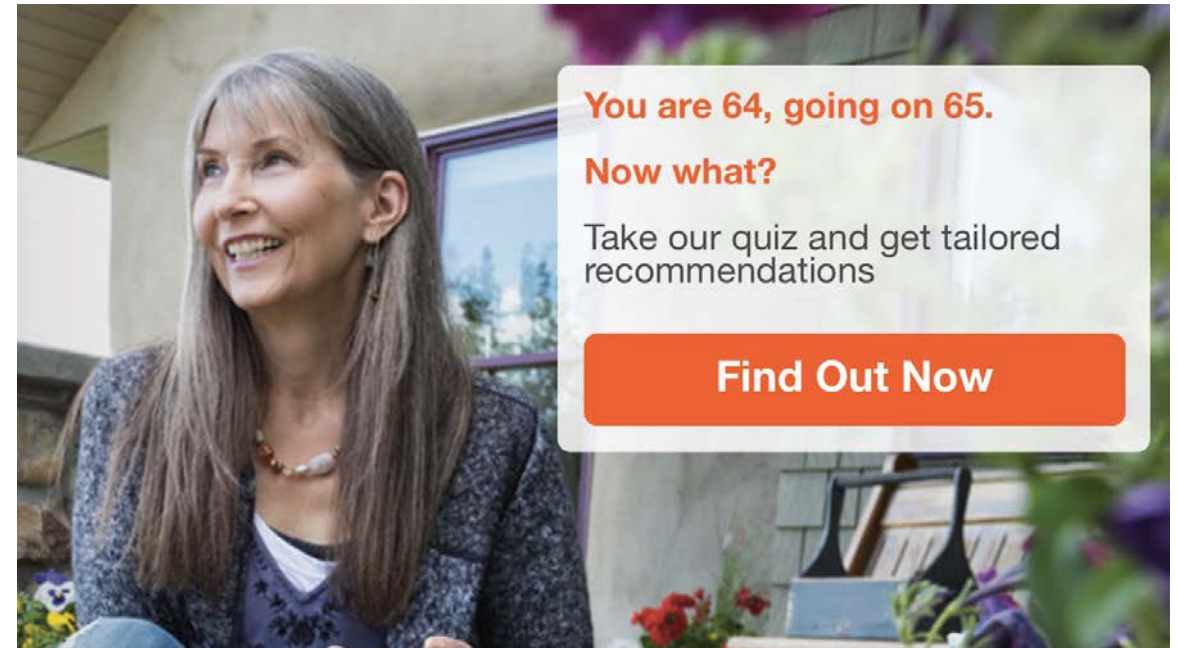

silvernest

Creating a moment

Control Condition

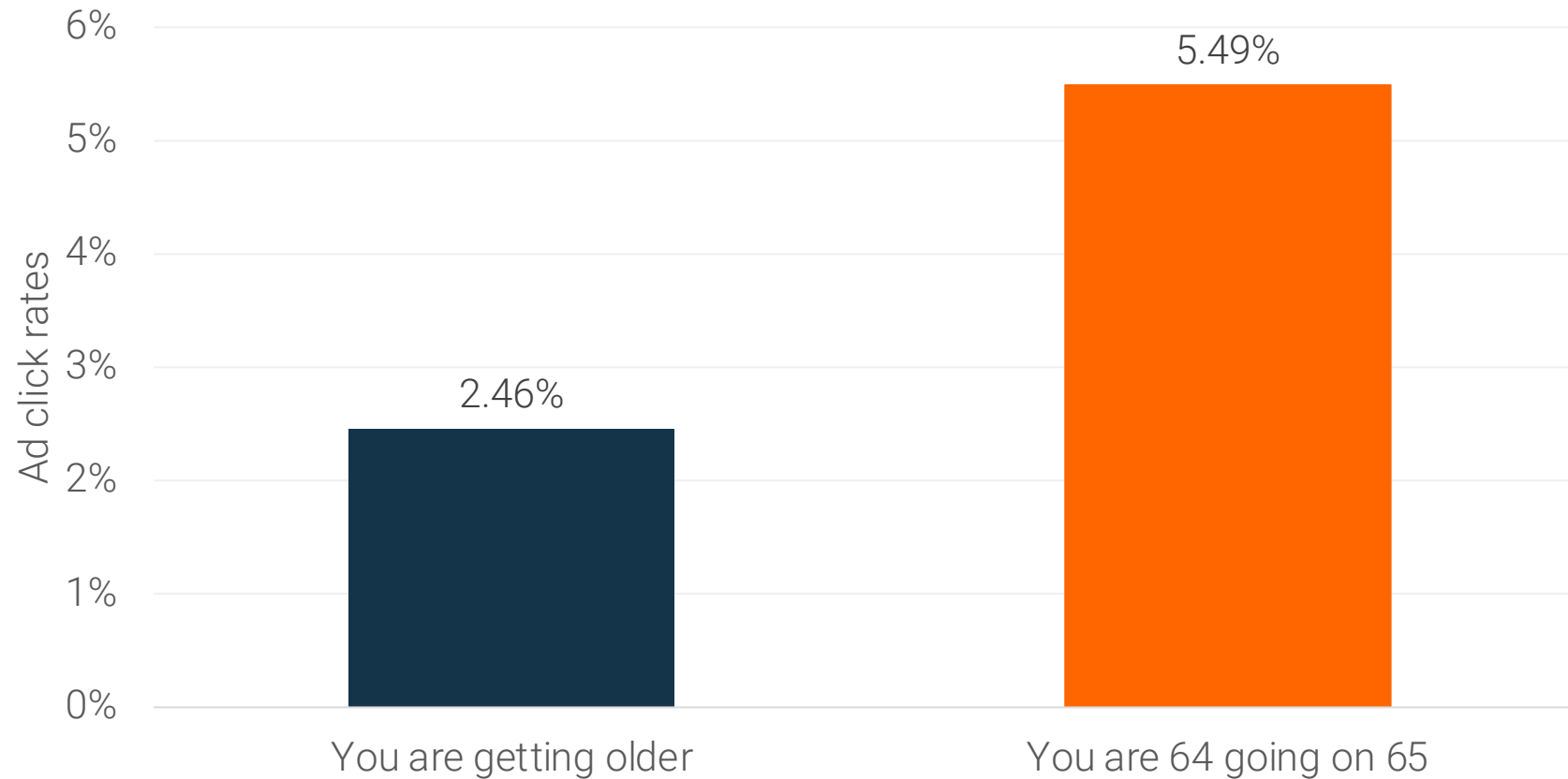


Experimental Condition



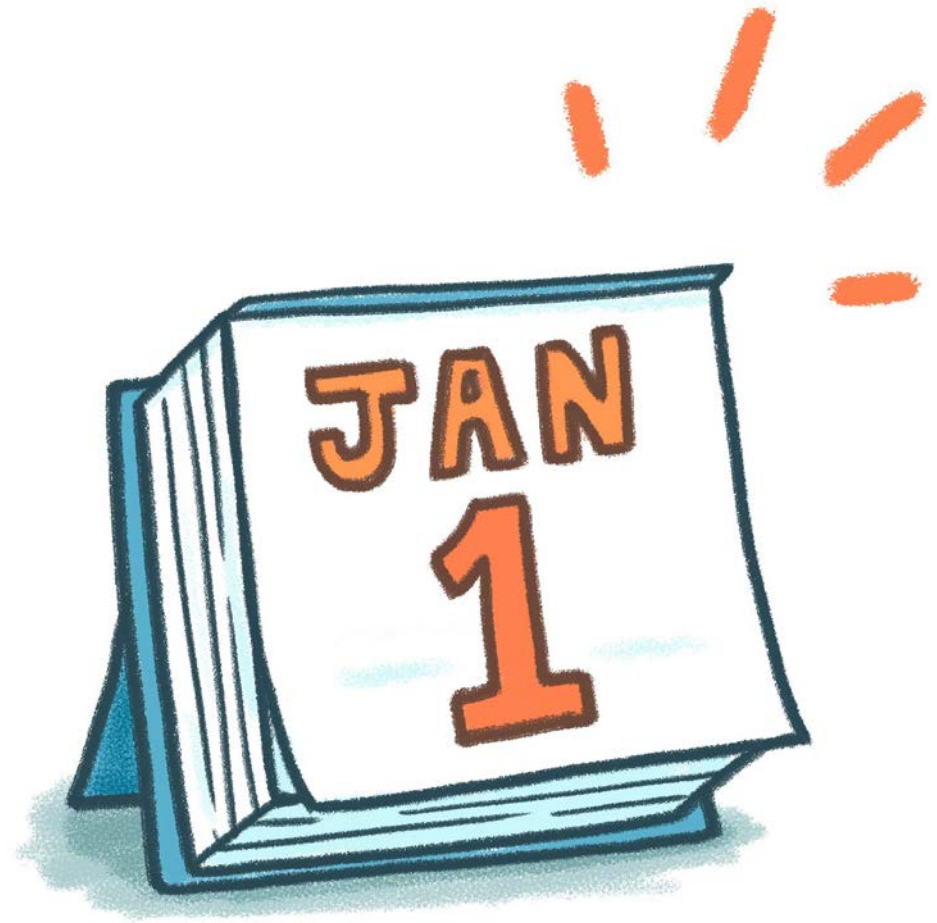
Creating a moment

Using age milestones more than doubled click-through rates.



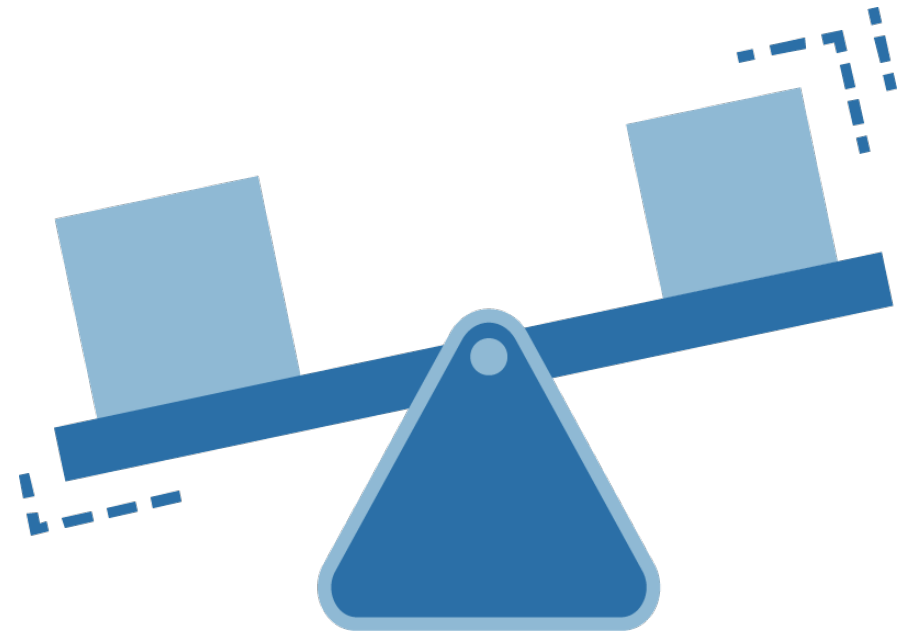
Fresh start effect

We are more likely to take action on a goal after a special occasion or significant date.



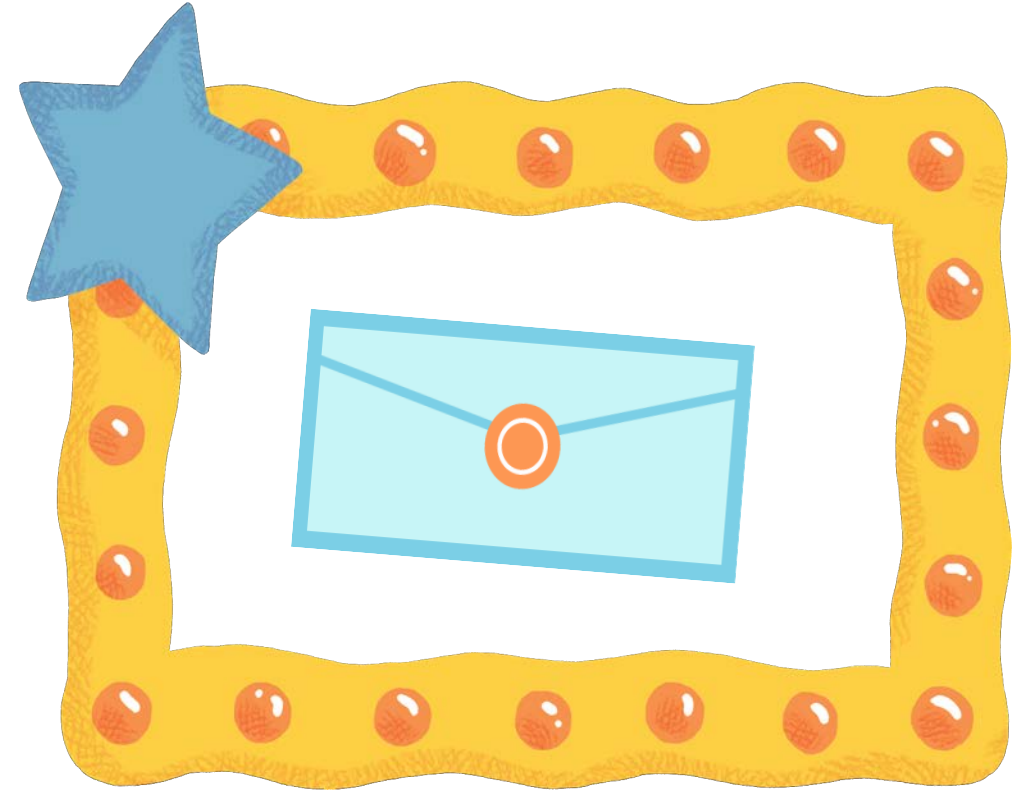
What are the tradeoffs?

- Cheaper and faster to implement but may have lower returns
- Can reach people in the moment but don't help form a habit
- Can powerfully invoke behavioral principles but can also have unintended consequences



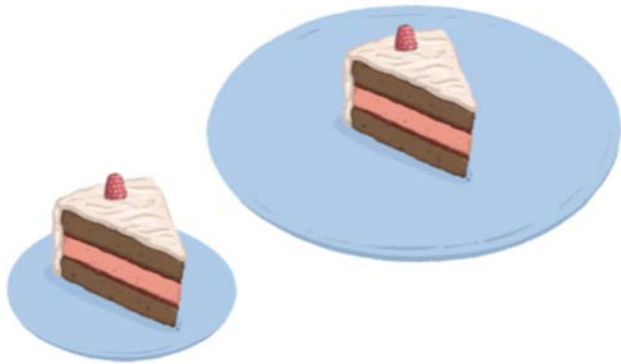
Strengthen your message by **choosing the right frame!**

- 1 **Emphasize immediate benefits**
- 2 **Leverage social cues**
- 3 **Prompt when most receptive**
- 4 **Carefully consider tradeoffs**



Three important concepts

Change the environment
to change behavior



Help your users by
making it easy



Strengthen your message
with the right frame

