## BEHAVIORAL PSYCHOMETRICS AND CUSTOMER EMPATHY

Brian Cugelman, PhD @cugelman



# How to exploit the psychological vulnerabilities of these volunteers





Shanelle Mullin



Talia Wolf



Brian Cugelman



Brian Massey



### Brian Cugelman, PhD



## What's up for today

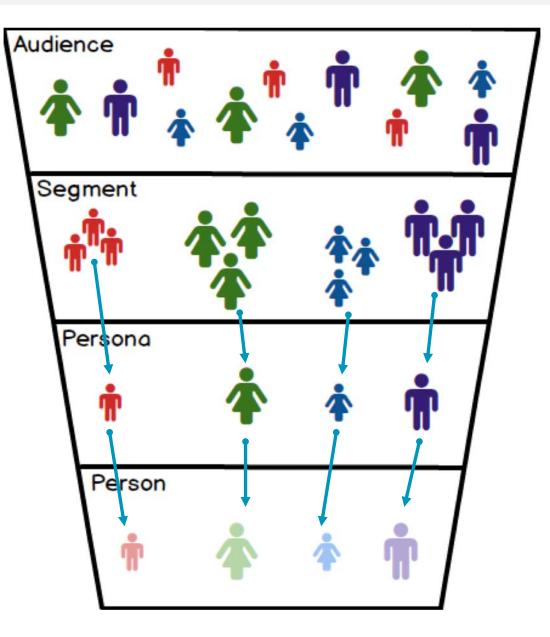


- 1. Segments and personas
- 2. Personality neuroscience
- 3. Behavioral misinformation
- 4. Behavioral science and design
- 5. Social influence
- 6. Behavioral design improv

## SEGMENTS AND PERSONAS

## **Targeting terms**





#### Segment

#### Persona

#### Segment 11



#### Travel Enthusiast >

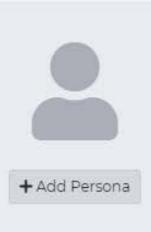
Location	International
👑 Age	19 - 30
🕴 Male	65%
🖡 Female	35%



James > 66 The world is my temple 55



June Sun > I'll go wherever the wind takes me.



### Persona **SPARK**<sup>™</sup>

## PERSONALITY NEUROSCIENCE

## What is personality?

\* Alter**Spark** 

## ŤŤŤŤŤŤŤŤŤŤŤŤŤŤŤŤŤŤ

Consistency in:

- Temperament and mood
- Typical emotional response
- Cognitive disposition
- Memories and habits
- Behavior

## Nature versus

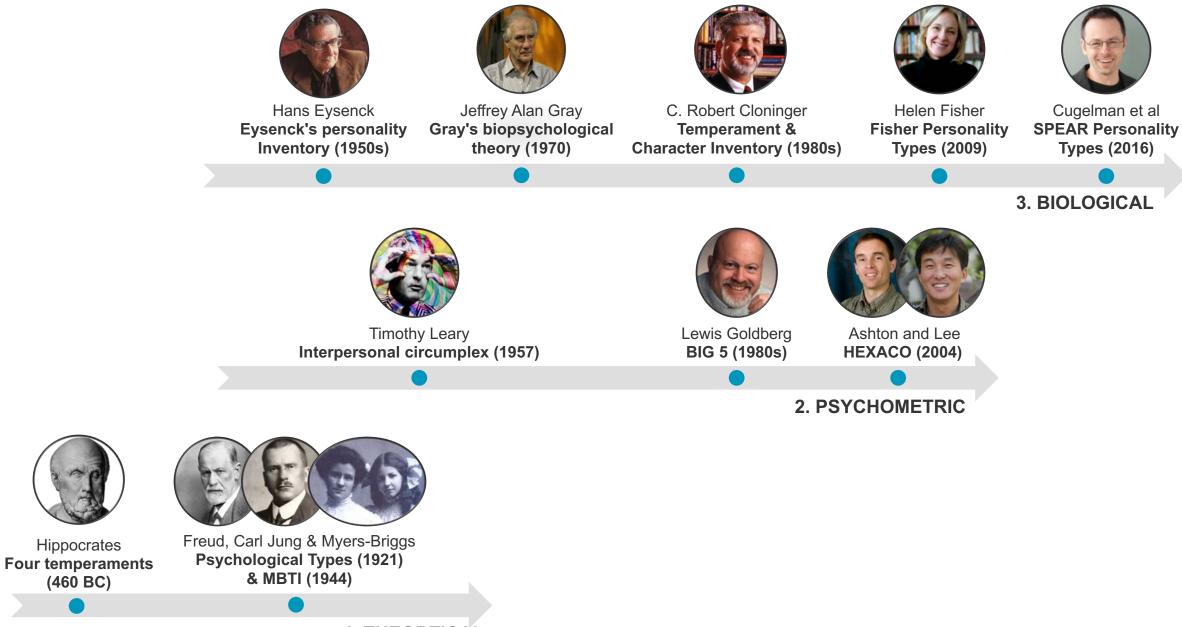
#### nurture

Genes account for about 40% of a given trait

Our personality changes a lot, during our life.

Environmental factors also shape personality.

#### **Advances in personality science**





**SPEAR 4-40** 

- Traditional
- Routine-Liking
- Risk-Avoiding

### Analytical, Decisive, Blunt PA PRAGMAT PS AP SP ANCHOR SEEKER AE SE -60

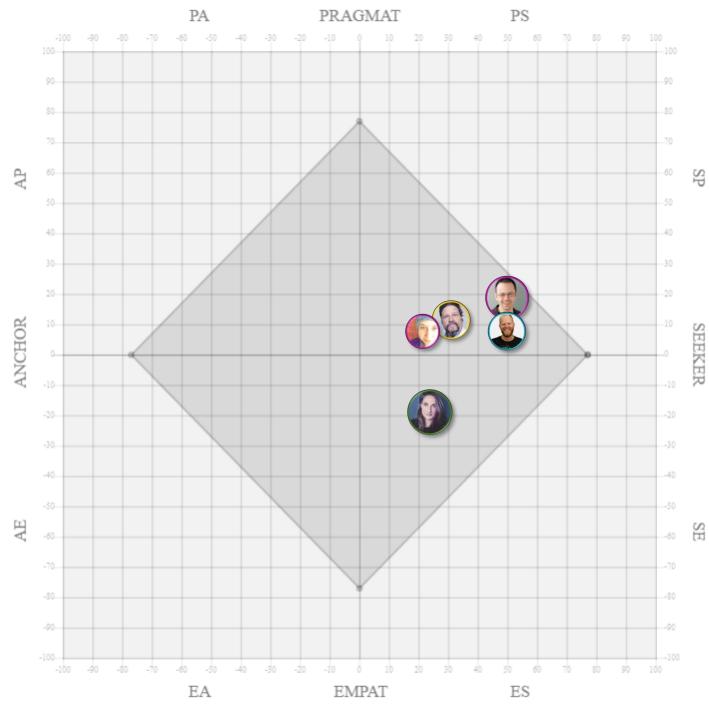
EMPAT

Emotional, Compassionate, Giving

ES

ΕA

- Risk-Taking
- Routine-Avoiding
- Non-Traditional



## We scored the gang with the short SPEAR4-40 instrument.

#### They're a bunch of curious risk-takers.

The group <u>leans</u> <u>towards analytical</u>, but most had a good <u>balance of social</u> <u>orientation too.</u>

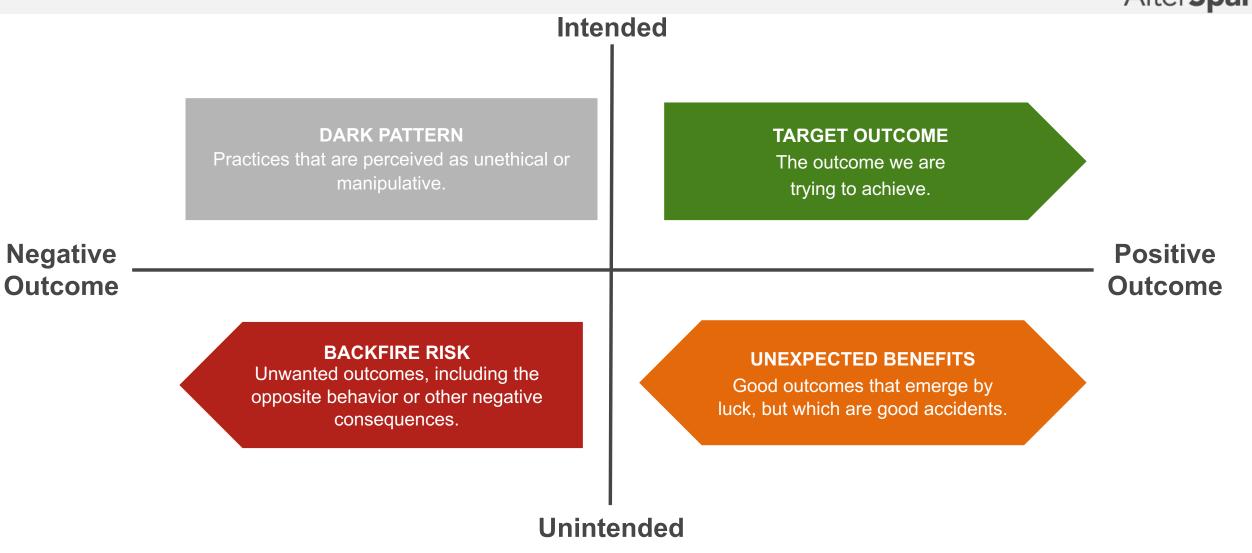
## BEHAVIORAL MISINFORMATION

## **B.S. vs. Behavior Science**

B.S. Pop Psychology (Hype)	Behavioral Science (Evidence)
1. Learn psychology so powerful, you must promise never to use it for evil	<ul> <li>Impacts ranged from 5-11%, but only in population X</li> </ul>
2. You will HOOK users	<ul> <li>There was no impact 4 months into the program</li> </ul>
3. Variable rewards will addict users	<ul> <li>Reinforcement techniques produce significant, but small impacts</li> </ul>
4. You will learn "secret psychology"	<ul> <li>Everything we teach comes from published studies</li> </ul>
5. Get psychological "superpowers" with our magic model	<ul> <li>Hypothetical models are often nonsense, without scientific scrutiny and testing</li> </ul>

## **Behavior change outcomes**

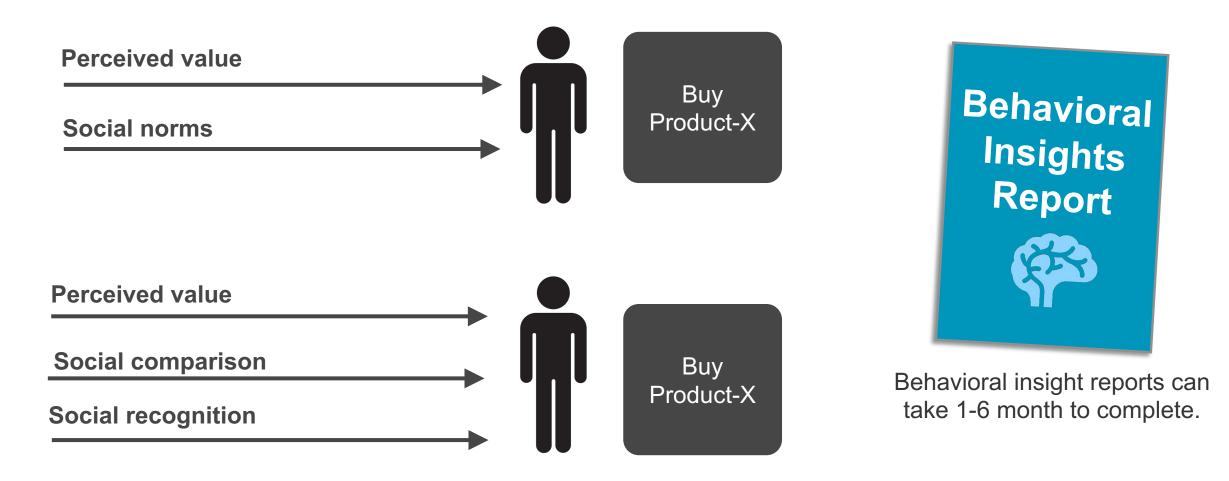




Stibe, A. & Cugelman, B. (2016, in press) Persuasive Backfiring: When Behavior Change Interventions Trigger Unintended Negative Outcomes. PERSUASIVE 2016, LNCS 9638, Springer International Publishing Switzerland 2016. pp. 1–13, 2016. DOI: 10.1007/978-3-319-31510-2\_6

## BEHAVIORAL SCIENCE & DESIGN

## **Psychological architectures**



Alter**Spark** 

#### **Behavioral Science**

Psychology & neurology driven theory & research

#### **Behavioral Design**

#### Psychology-inspired strategy & creative

Behavioral Insights Report

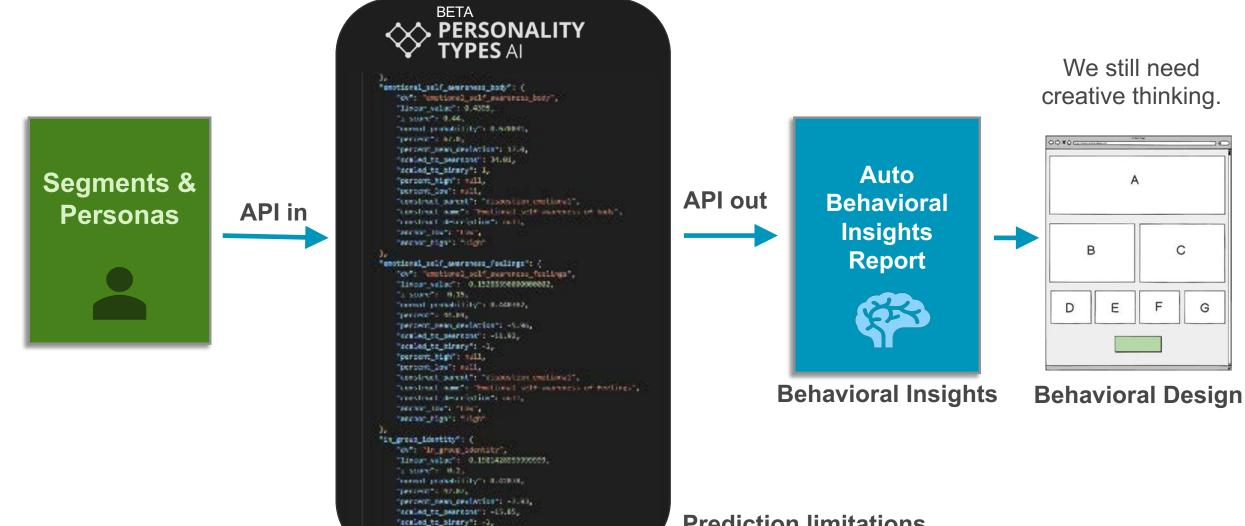
Handover from Behavioral Science to Behavioral Design

#### **Behavioral psychometrics: Automated behavioral insights**

"percent\_high": sull,

**Behavioral Psychometrics** 





#### **Prediction limitations**

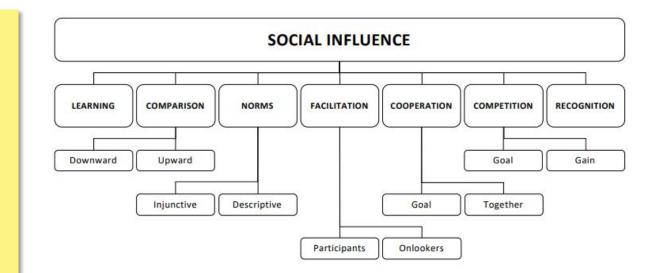
Using old /V4/ API models with lower quality SPEAR scores, and the modest ranking SPEAR40 instrument.

## SOCIAL INFLUENCE

## Does social proof describe all forms of social psychology?

#### **7 Social Influence Principles**

- Learning
   Comparison
- 3. Norms
- 4. Facilitation
- 5. Cooperation
- 6. Competition
- 7. Recognition



Prof. Stibe & Dr. Cugelman

Easy article: <u>https://www.alterspark.com/blog/7-principles-of-social-influence-for-digital-psychology</u>

#### **Social learning**

People learn by seeing others perform a task.



### staying alive "Disco can save lives."

Hands- 1,516 vi	Only CPR (British Heart Foundation TV advert) ews	II LIKE	<b>Ø</b> I DISLIKE	A SHARE	≡₊	Up next
<b>\$</b> 22	British Heart Foundation Published on May 10, 2018			SUBS	CRIBE 12K	
	Vinnie Jones shows how hard and fast Hands-only CPR to Stayin' A save the life of someone who has had a cardiac arrest.	live by the Bee Gees can help				1
	The Hollywood hardman stars in a British Heart Foundation TV adv out CPR in a medical emergency.	ert urging more people to carry				
	Category Nonprofits & Activism					2

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How to Perform CPR video

AUTOPLAY



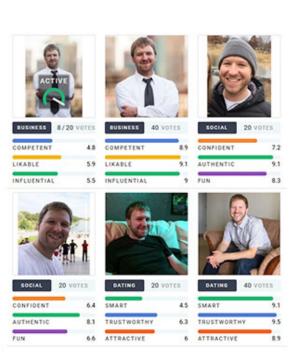
4:5

Jazz Cartier - Right Now (Audio) ft. KTOE Jazz Cartier # Recommended for you

How to triple your memory by

#### **Social comparison** (upward/downward)

People are constantly comparing themselves to others and making evaluations of higher/lower ranking.



#### See How Others See You

with the world's #1 photo testing tool

FAQ

data about how you're coming across.

Use it free - or pay for faster results.



#### How it works

## BUSINESS

TITLE **Digital Content Producer** 

photofeeler

Scores	Data	Notes				
Warm smile, g	good eye contact	t, I like her				
Great photo! V	Nould wear a su	t jacket for more influence.				
solid picture,	solid picture, although the lighting is a bit funny					
Nice smile :)						
Looks friendly	v but also smart					
Background in	Background is a little bit busy					
Not sure what is in the background? Good pic overall						

Photofeeler is safer than any alternative. You decide exactly when your photos will be visible, to whom, and for how long.

Privacy

Part People, Part Artificial Intelligence

Get feedback from respectful, unbiased voters.

Machine learning vote score normalization & voter fraud detection AI by Carnegie Mellon University Ph.D. mathematicians ensure your results are accurate and trustworthy. Photofeeler has separate categories for Business, Social and Dating photos and 9 traits

Target them by gender and age.



Already using Photofeeler? Login

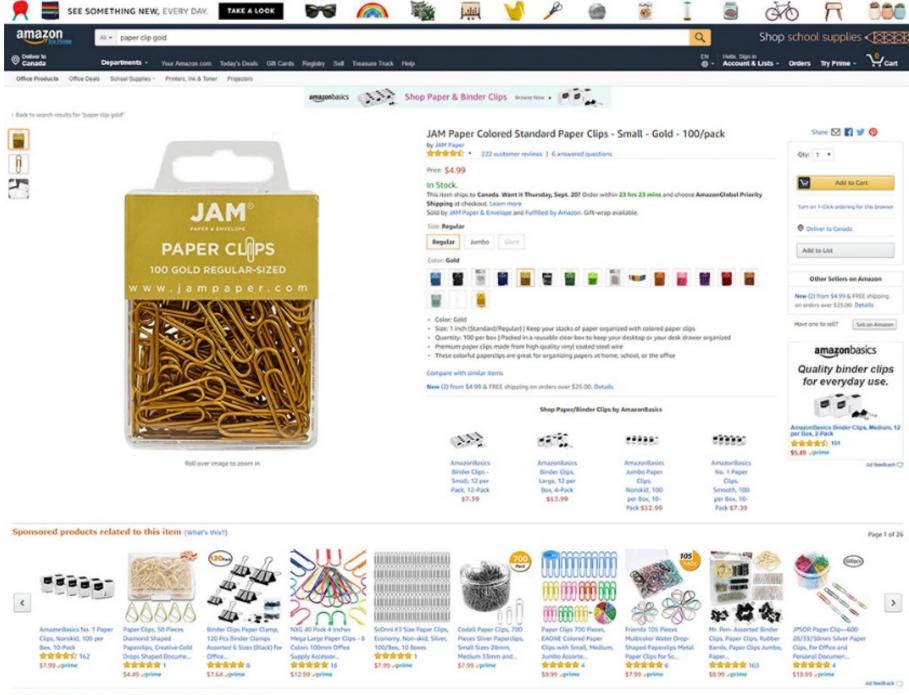
you can test for.

Choose your business, social, and dating photos using hard



#### **Social norm**

When unsure how to act in a situation, people observe what others are doing to determine the correct way to think, feel or behave.

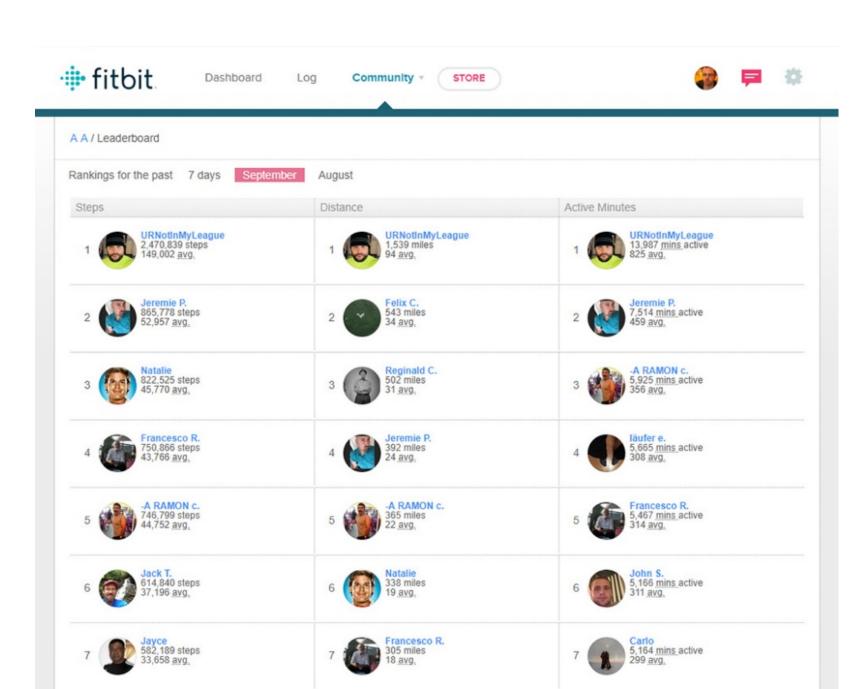


What other items do customers buy after viewing this item?

ACCO-Gold Tone Clips, Smooth Finish, 2 Size, 100/Box, 4-Pack (400 Clips Total) (A7072554)

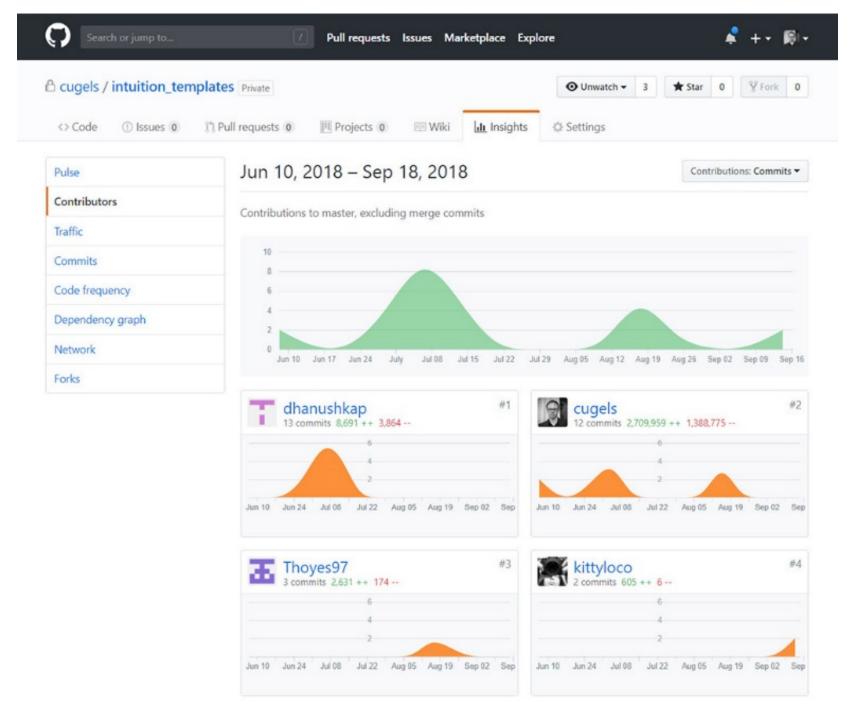
#### **Social facilitation**

The mere presence of other people (real, virtual, or imagined) increases the performance of wellknown tasks, but reduces the performance of unfamiliar tasks.



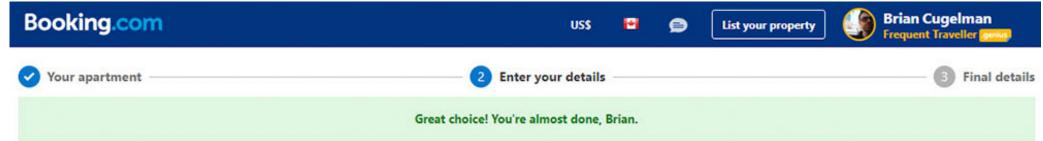
#### Cooperation

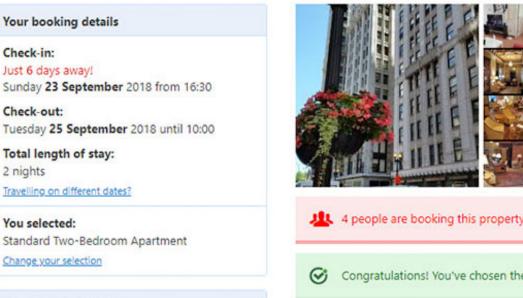
People cooperate to achieve common goals, creating a win-win context that increases group trust.



#### Competition

People compete when working against each other to achieve their goals, fostering a winlose context.





#### Pittsfield Apartments + Suites



55 E Washington St Chicago IL, Chicago Loop, Chicago, 60602, USA – In city centre This property is in a good location. Guests have rated it 9.1!

One of our top picks in Chicago

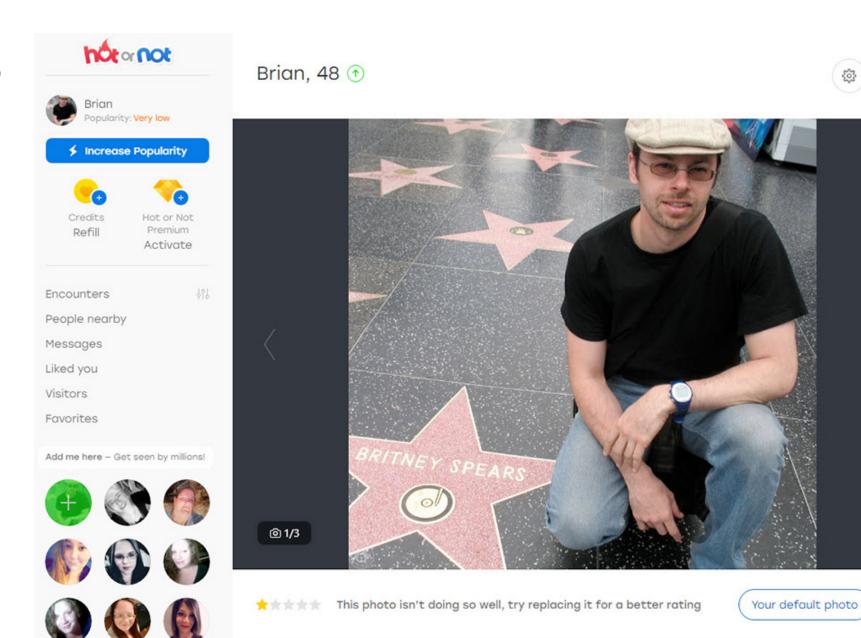
4 people are booking this property right now.

Congratulations! You've chosen the cheapest apartment at Pittsfield Apartments + Suites. Don't miss out, book now!

#### Vour booking includer

#### Recognition

Group approval and acceptance is motivating while group rejection and disapproval are demotivating.



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## **BEHAVIORAL DESIGN - IMPROV**

## Time to play, BEHAVIORAL DESIGN IMPROV

With special guests, and target audiences:





Shanelle Mullin



Talia Wolf



Brian Cugelman



**Brian Massey** 

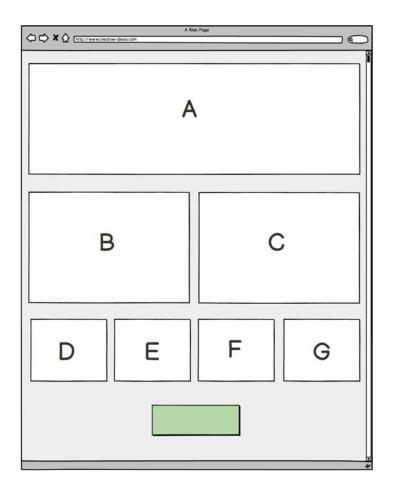


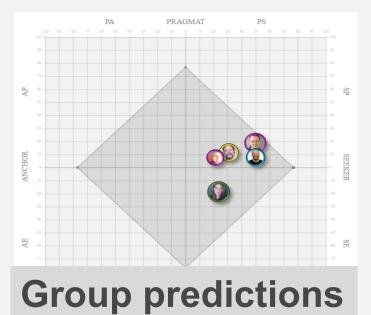
+ Special guest Debra

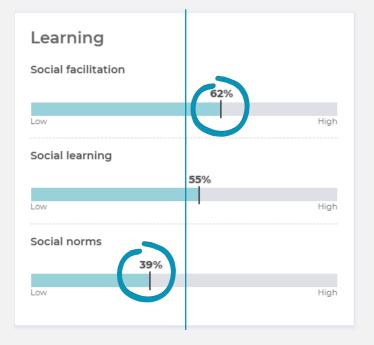
## How to play

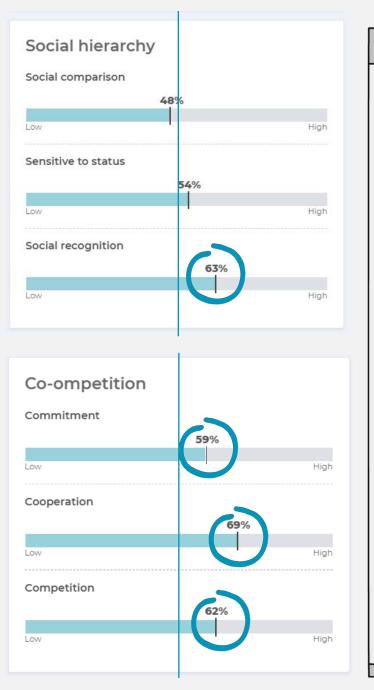
#### Let's pick the following:

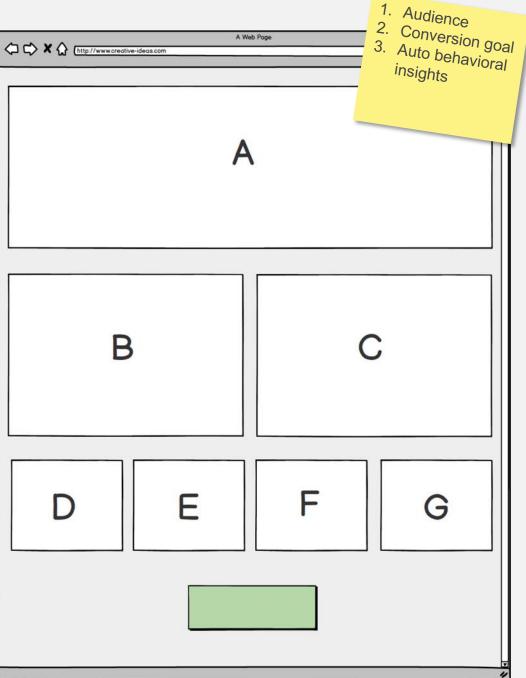
- 1. Audience
- 2. Conversion goal
- 3. Auto behavioral insights

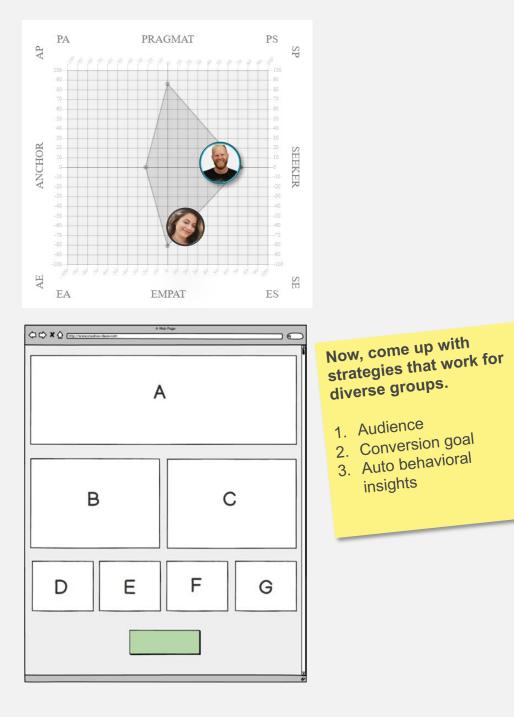








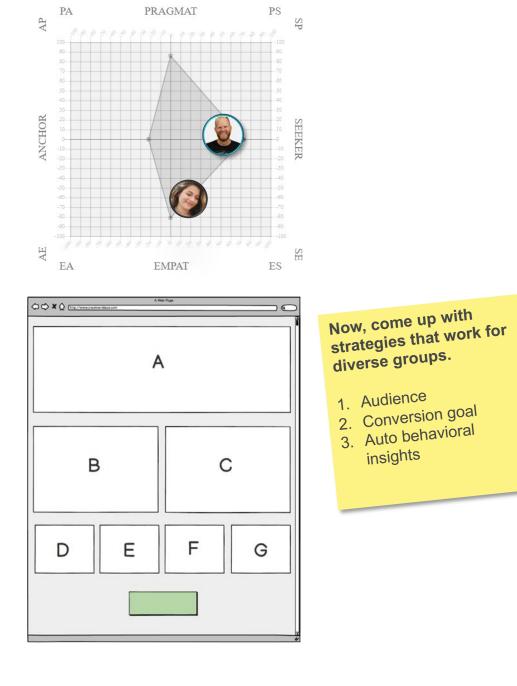




insights





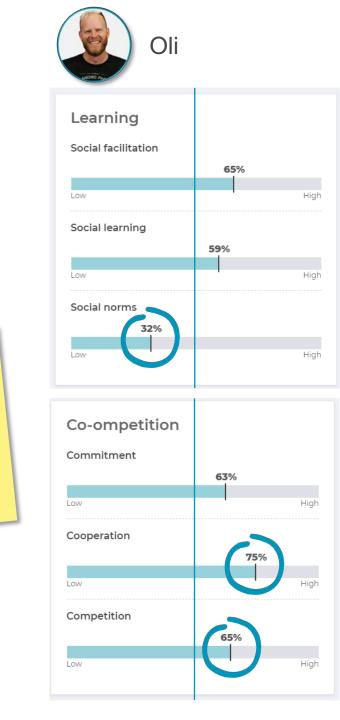


diverse groups.

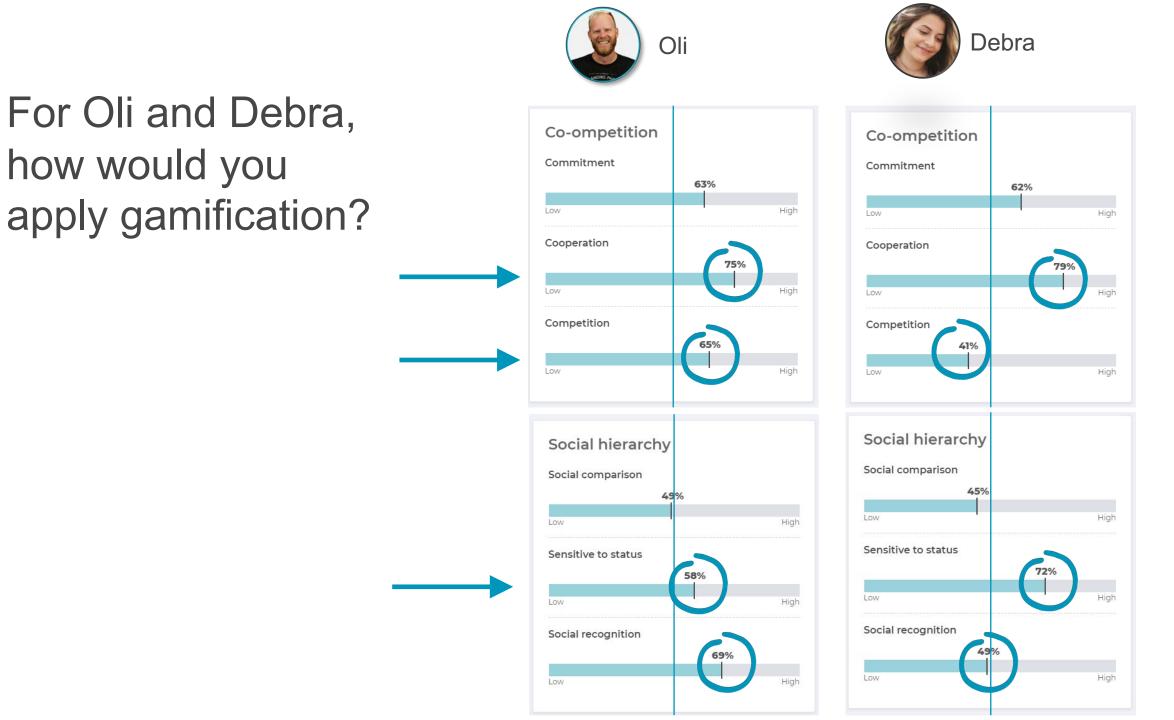
insights

2. Conversion goal 3. Auto behavioral

1. Audience







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## THANK YOU



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AlterSpark www.alterspark.com

Persona SPARK beta www.personaspark.com