

In God We trust, all others, use data

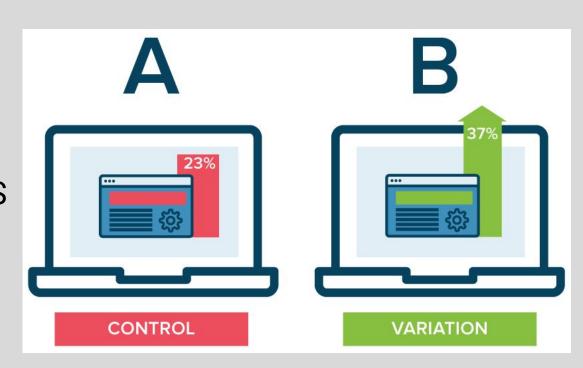
Aubay Portugal

by carlos souza

A/B Tests



"A WAY TO TEST YOUR
PAGE AGAINST THE
CURRENT DESIGN AND
DETERMINE WHICH ONES
PRODUCES POSITIVE
RESULTS."



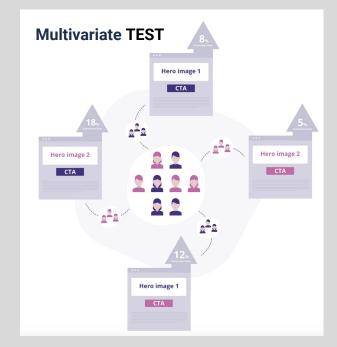
- Prevents regression
- New feature always better
- Never worse



Types







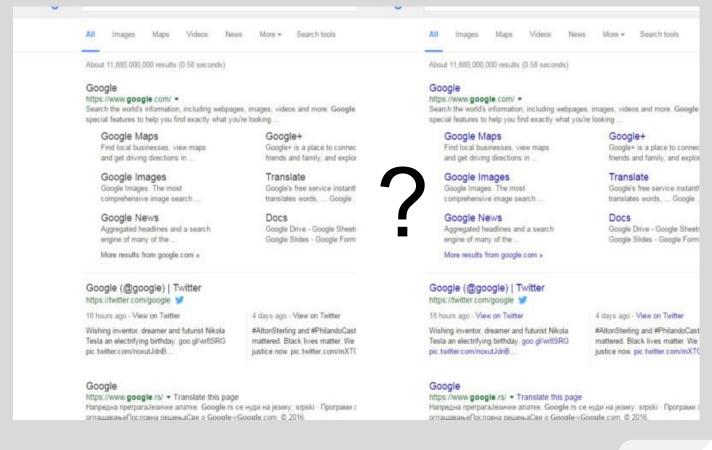




The Beginning

Google

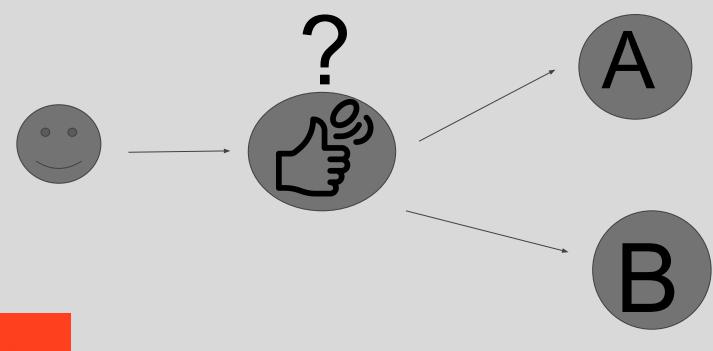
Make what the user want



- Best color result
- Best Number of results



How it works









Combinations (24)		age Sections (2)	Download: ☑ XML ☑ CSV ☑ TSV ☐ Print			
Relevance Rating ?	Variation	Est. conv. rate ②	Б	Chance to Seat Orig. ?	Observed Improvement ②	Conv./Visitors ?
Button	Original	7.51% ± 0.2%	+	_	_	5851 / 77858
5/5	Learn More	8.91% ± 0.2%	+	100%	18.6%	6927 / 77729
	Join Us Now	7.62% ± 0.2%	+	73.5%	1.37%	5915 / 7764
	Sign Up Now	7.34% ± 0.2% -1	1+	13.7%	-2.38%	5660 / 7715
Media	Original	8.54% ± 0.2%	+	_	_	4425 / 5179
5/5	Family Image	9.66% ± 0.2%	+	100%	13.1%	4996 / 51696
	Change Image	8.87% ± 0.2%	+	92.2%	3.85%	4595 / 51790
	Barack's Video	7.76% ± 0.2% -	+	0.04%	-9.14%	3992 / 5142
	Sam's Video	6.29% ± 0.2% -	+	0.00%	-26.4%	3261 / 51864
	Springfield Video	5.95% ± 0.2% -	1+	0.00%	-30.3%	3084 / 5181

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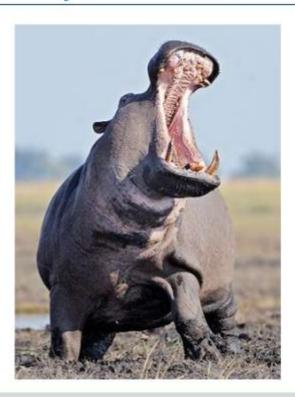






Why do we A/B Test? HIPPO* Defense





"If we have data, let's look at data. If all we have are opinions, let's go with mine."

Jim Barksdale,
 Netscape CEO

* Highest Income Person's Opinion

I THINK

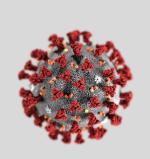




STANDARD FDA DRUG TEST

TEST CASUAL RELATIONSHIP

INSULATE EXTERNAL FACTORS















CORRELATION x CAUSALITY

EXAMPLE 1



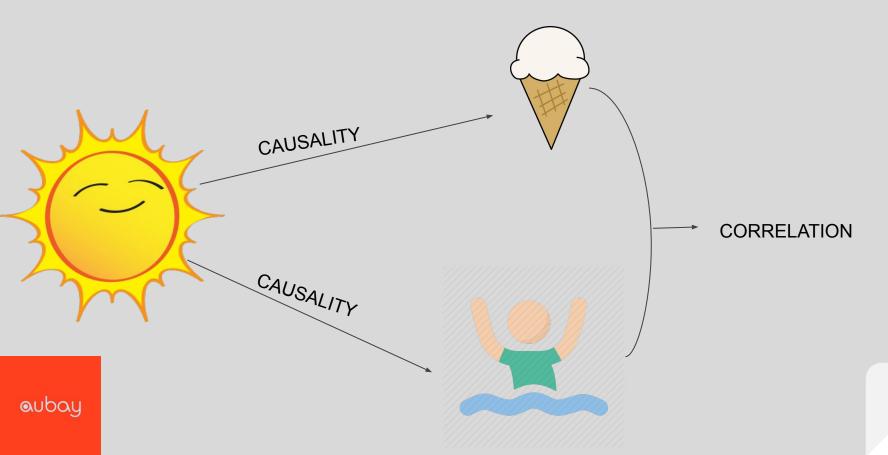
AS ICE CREAM SALES INCREASE, THE RATE OF DROWNING DEATHS INCREASES SHARPLY.

THEREFORE, ICE CREAM CONSUMPTION CAUSES DROWNING.



CORRELATION x CAUSALITY

EXAMPLE 1 THEREFORE, ICE CREAM CONSUMPTION CAUSES DROWNING?



Conversion

THE POINT AT WHICH A USER TAKES THE DESIRED ACTION

FOR E-COMMERCE FOR MEDIA FOR DONATION

* COMPLETED PURCHASES

* PRODUCT PAGE VIEW

* PAGE VIEW

* ARTICLES READ

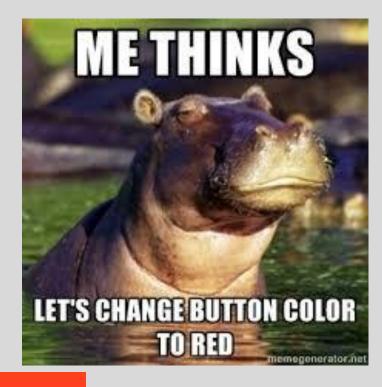
* FORM COMPLETION



YOU ARE THE HIPPO



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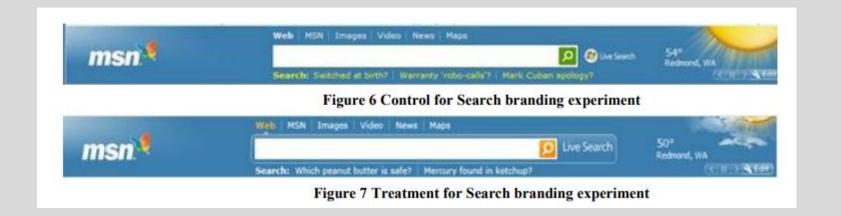






Find Your Dream Home or Apartment

Treatment 5



Neutral Result













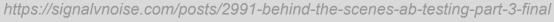


https://signalvnoise.com/posts/2991-behind-the-scenes-ab-testing-part-3-final















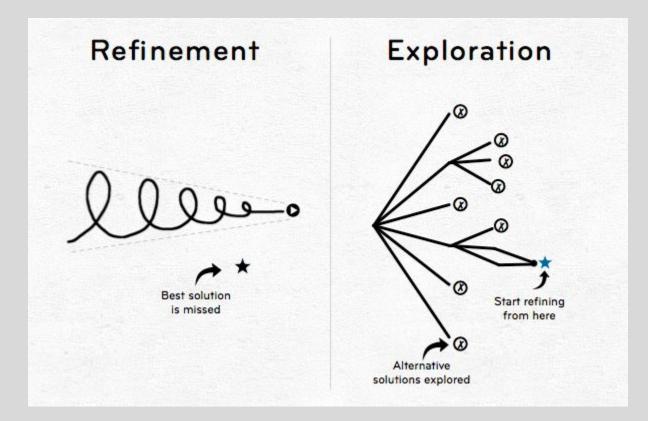
JOHN





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Refinement | Exploration



Case netflix (split x ramp-up) http://www.business2community.com/online-marketing/2-alexa-500-site-redesigns-inspire-ab-test-0975603#iUczqEsyLLz8xLXS.97









DATA DON'T LIE

↑ RETENTION

↑ ENGAGEMENT





"WHAT PEOPLE SAY AND WHAT THEY DO ARE RARELY THE SAME."



-BRYAN GUMM NETFLIX

Case netflix 2

Cells	Cell 1 (Control)	Cell 2	Cell 3			
Box Art	A NETFLIX ORIGINAL SHORT SHORT SAME Default artwork	SHORT GAME 14% better take rate	6% better take rate	NETFLIX UNBREAKABLE KIMMY SCHMIDT	NETFLIX UNBREAKABLE KIMMY SCHMIDT UNBREAKABLE KIMMY SCHMIDT	WIND WARREN ABLE WIND AND AND AND AND AND AND AND AND AND A







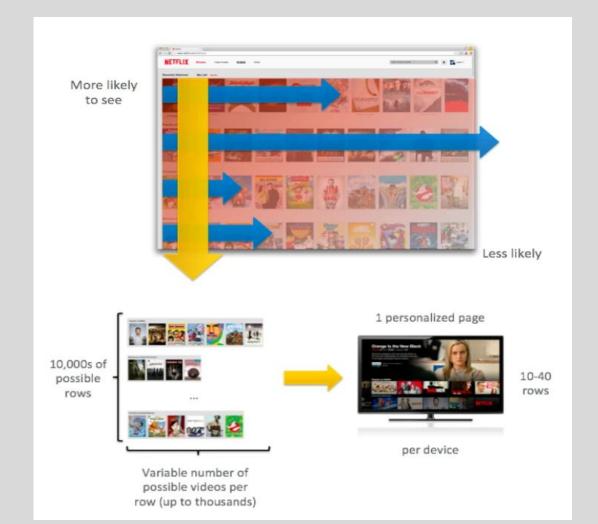






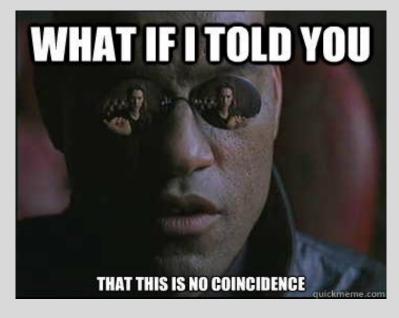


Case netflix 3



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FRAMING EFFECTS







FRAMING EFFECTS

AN EXAMPLE OF COGNITIVE BIAS, IN WHICH PEOPLE REACT TO A PARTICULAR CHOICE IN DIFFERENT WAYS DEPENDING ON WHETHER IT IS PRESENTED AS A LOSS OR AS A GAIN

PARTICIPANTS WERE ASKED TO CHOOSE BETWEEN TWO TREATMENTS FOR 600

PEOPLE AFFECTED BY A **DEADLY DISEASE**

TREATMENT A WAS PREDICTED TO RESULT IN 400 DEATHS,

WHEREAS TREATMENT B HAD A 33% CHANCE THAT NO ONE WOULD DIE BUT A 66%

CHANCE THAT EVERYONE WOULD DIE

POSITIVE

* TREATMENT A SAVES 200 LİVES

* TRATEMENT B A 33% CHANCE OF SAVING ALL 600 PEOPLE, 66% POSSIBILITY OF SAVING NO ONE

NEGATIVE

* TREATMENT A 400 PEOPLE WILL DIE

* TRATEMENT B A 33% CHANCE THAT NO PEOPLE WILL DIE, 66% PROBABILITY THAT ALL 600 WILL DIE

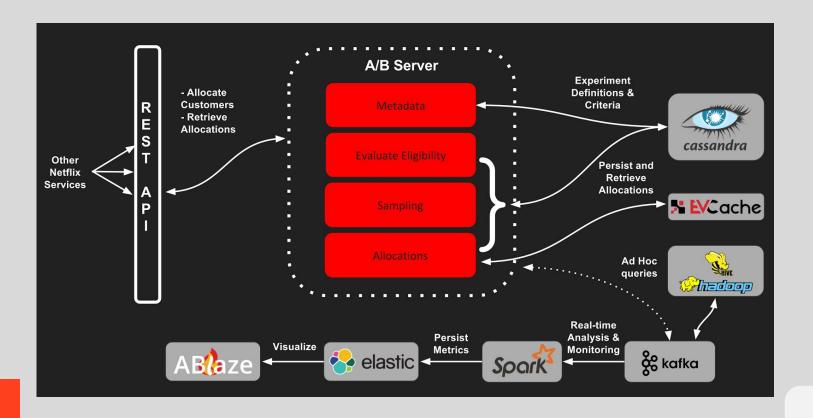
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FRAMING EFFECTS

TREATMENT A

- * CHOSEN BY 72% WHEN PRESENTED WITH POSITIVE FRAMING
- * CHOSEN BY 22% WHEN PRESENTED WITH NEGATIVE FRAMING







Tools













Visual Website Optimizer





Cool Links

https://vwo.com/tools/ab-test-siginficance-calculator/

https://unbounce.com/ab-test-duration-calculator/

https://docs.google.com/spreadsheets/d/16G4RDOaaSsRc-NoqLqb2tyIGNrdDChtp2zMTDVb2f60/edit#gid=0



SUMMARY

DON'T BELIEVE THE GURUS

WHAT WORKS FOR "EVERYBODY" MAY NOT WORK FOR YOU

DON'T BELIEVE THE HIPPO

HIPPO DON'T THINK. THEY USED TO. YOU ARE BEING PAID TO DO IT

DON'T BELIEVE IN YOURSELF

YOU DON'T KNOW WHAT CONSUMER WANTS. YOU JUST HAVE HYPOTESHIS





SUMMARY

BELIEVE IN DATA

IT NEVER LIES

BE OPEN TO CHANGE

EXPERIMENT OFTEN, FAIL FAST, BELIEVE IN DATA



TEST EVERYTHING



