Essentials of powerful A/B testing

Lev Tatarov









Lev Tatarov Strategy Consultant **Optimizely**

The Telegraph

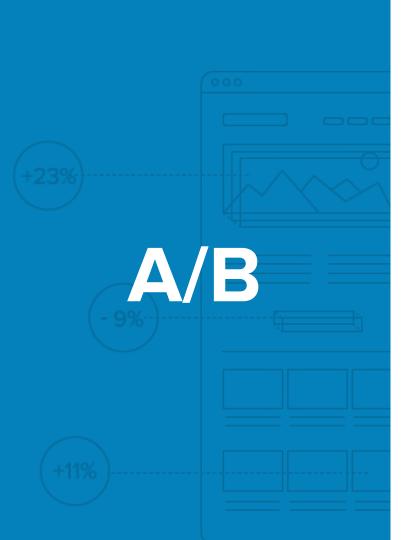
Media Markt adidas

ZARA BIBIC dailymotion



Help customers with...

- Setting up the right goals
- Identifying focus areas and strong ideas
- Experiment design
- Results interpretation
- Running an optimization program & scaling up



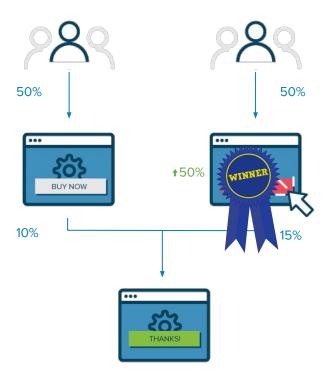
What is A/B testing?











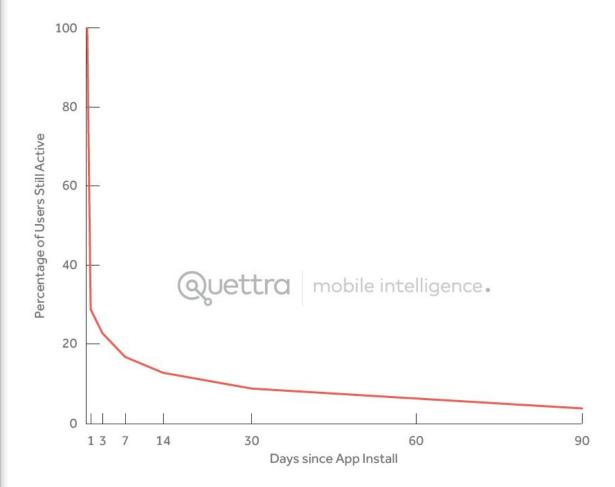






Keeping active users is a challenge...

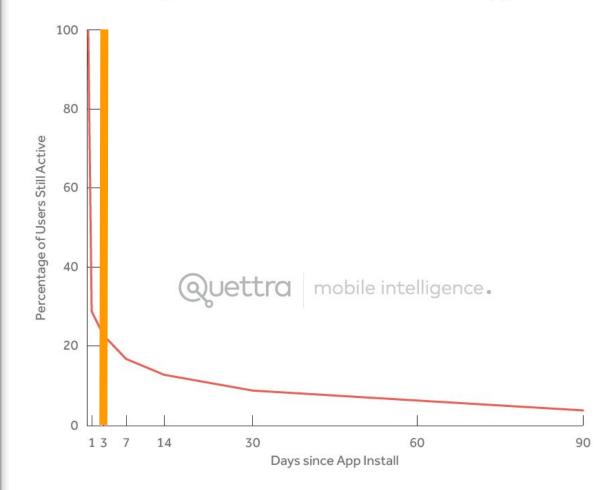
Average Retention Curve for Android Apps



Keeping active users is a challenge...

On average, after 3 days, 80% of users never re-open the app again

Average Retention Curve for Android Apps

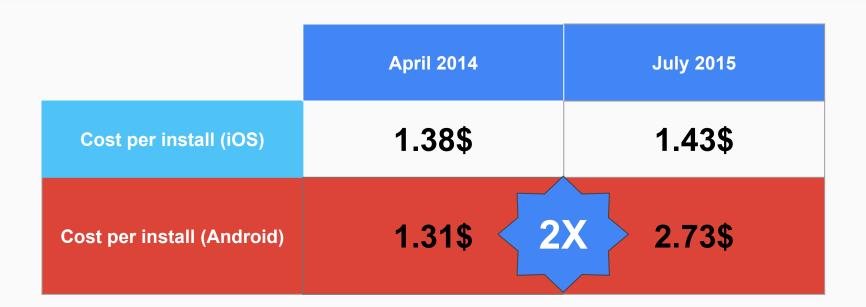


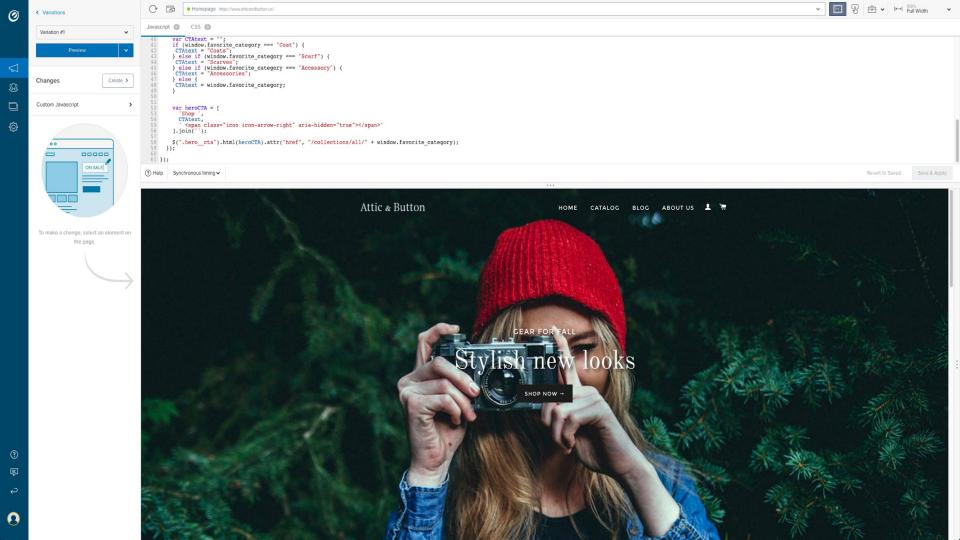
...and they cost more to acquire

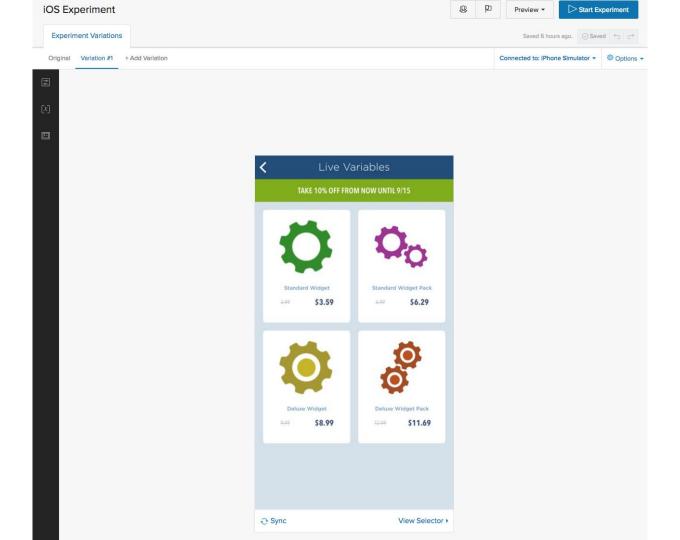
	April 2014	July 2015
Cost per install (iOS)	1.38\$	1.43\$
Cost per install (Android)	1.31\$	2.73\$

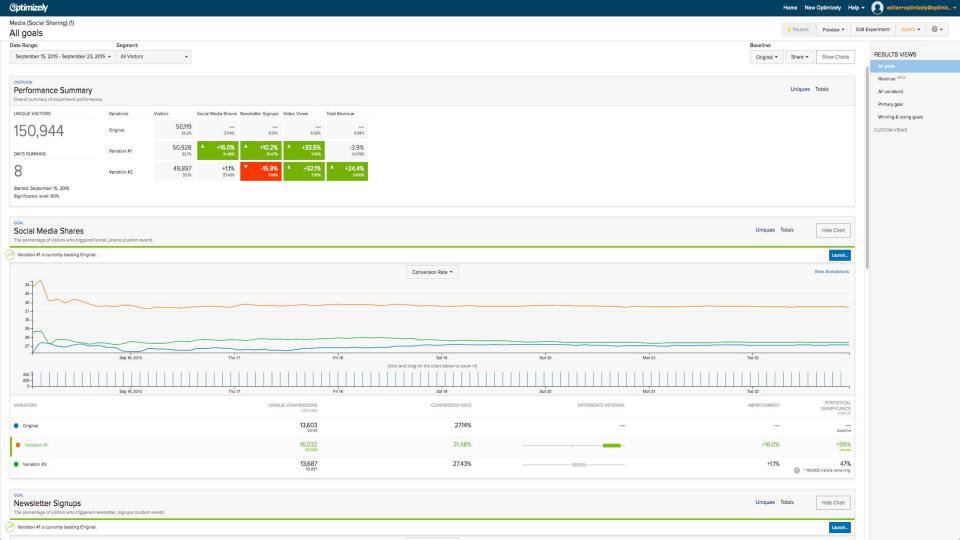
Source: FiKSU (Mobile Marketing Index), https://www.fiksu.com/resources/fiksu-indexes#analysis

...and they cost more to acquire





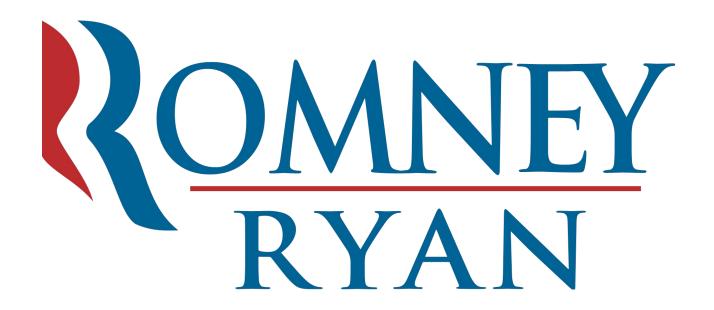






What is powerful A/B testing?











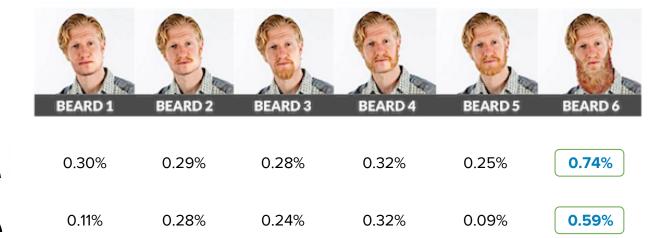
+ 10% Clicks







No facial hair Caveman

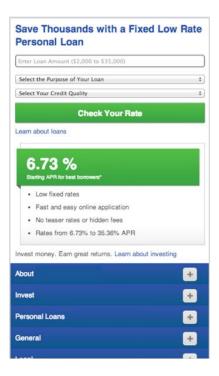




Is this the kind of A/B testing you should be doing?

Probably not...





10000000000000000000000000000000000000	
Last Name	
Middle Initial	
Suffix	
- Select -	
Home Address	
City	
State	
- Select -	:
Zip Code	
Employment Status	0
- Select -	
ndividual Yearly Income	
\$ [
Date of Birth	
Month : Day : Y	ear :



Original



Var 2

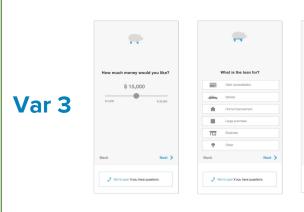




Var 1







+30% completion

What's your birth date?

We're open if you have questions

Next >

Date of birth





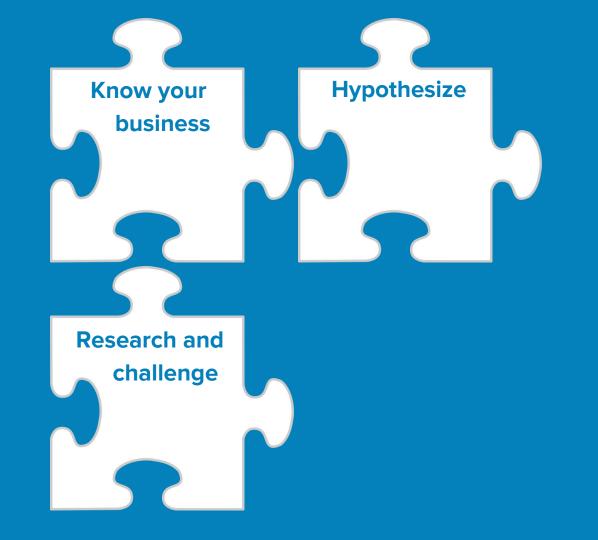
Powerful A/B testing means...

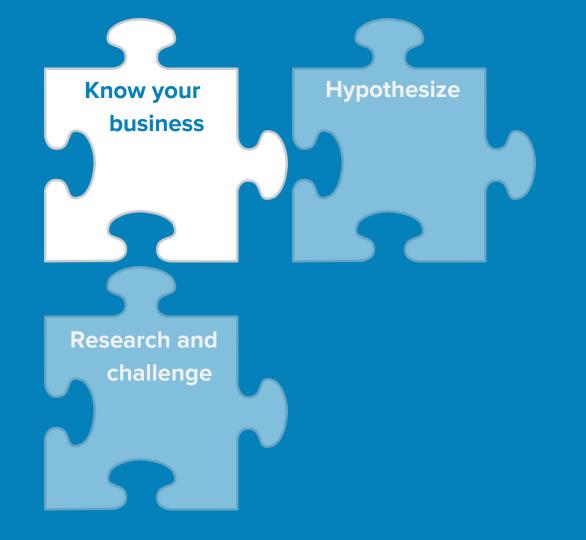
- Tackling your organization's most important challenges
- Validating assumptions with data
- Finding value in failed or inconclusive experiments
- Enabling a long-term optimization strategy



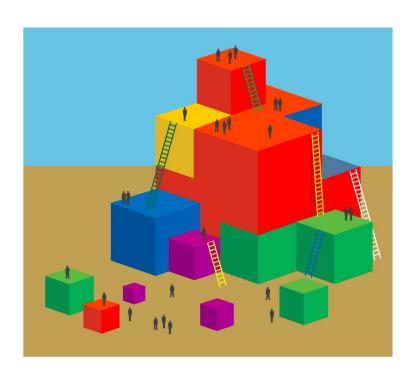
Powerful A/B testing is about turning your data into action!







Understanding the building blocks of your business sets the stage for optimization



- Set the right goals and expectations
- Identify potential focus areas
- Easier to get reliable results
- Show the value of your optimization efforts



secret escapes



Α



B



Hypothesis: If we make registration mandatory during the customer onboarding, more users will register

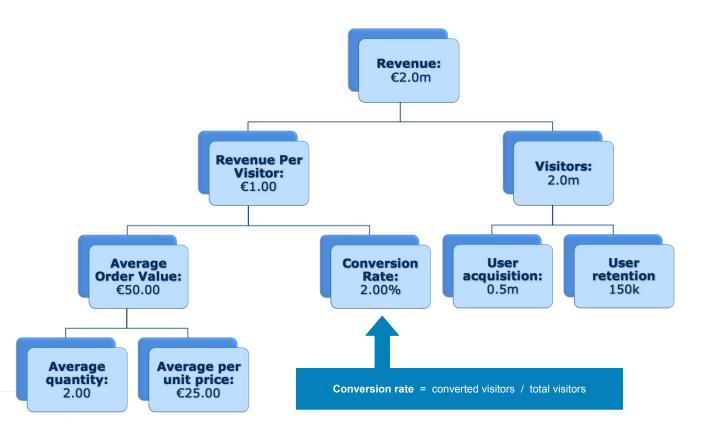
Risk: Customers will get upset, not register and leave negative app reviews

Result: More registrations & no negative feedback

Value: +28.1% RPV



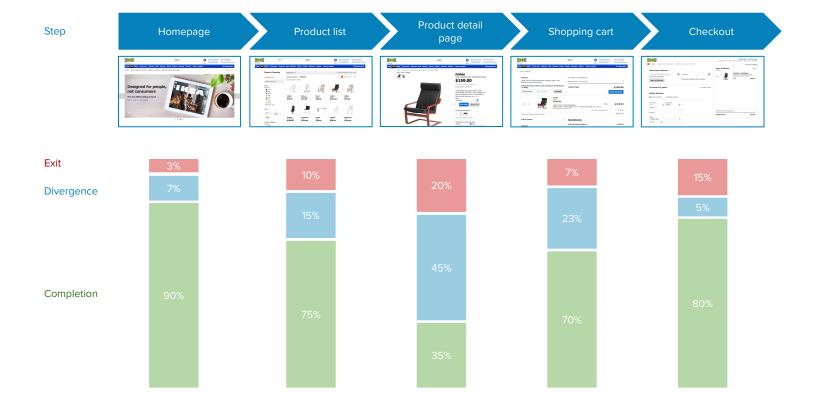




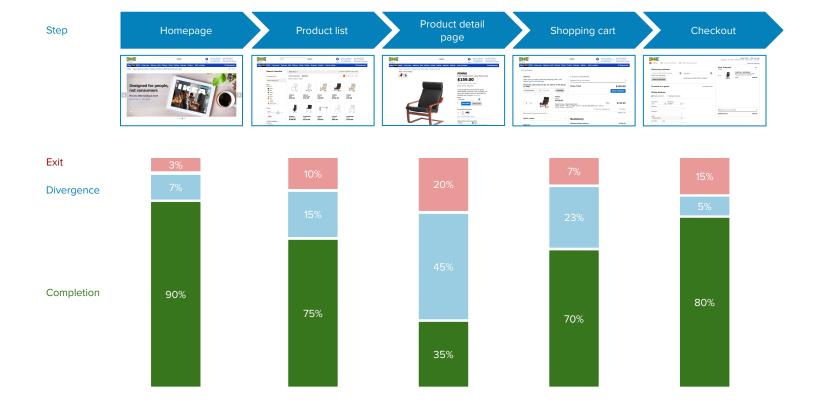




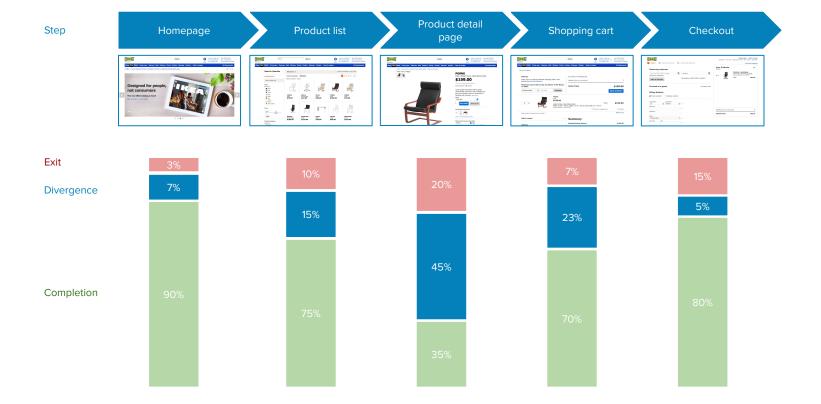




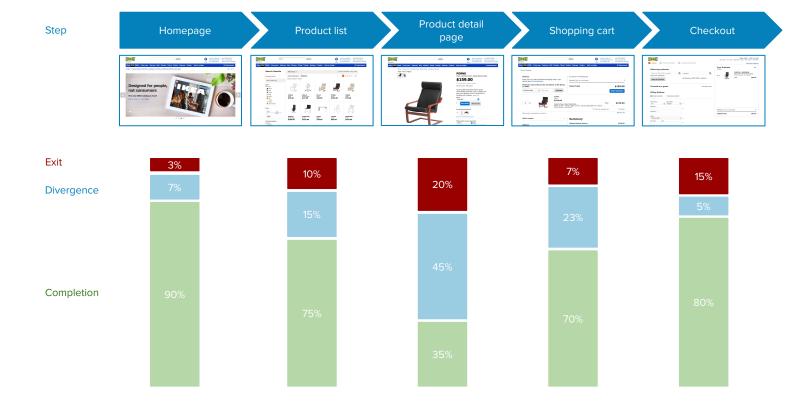




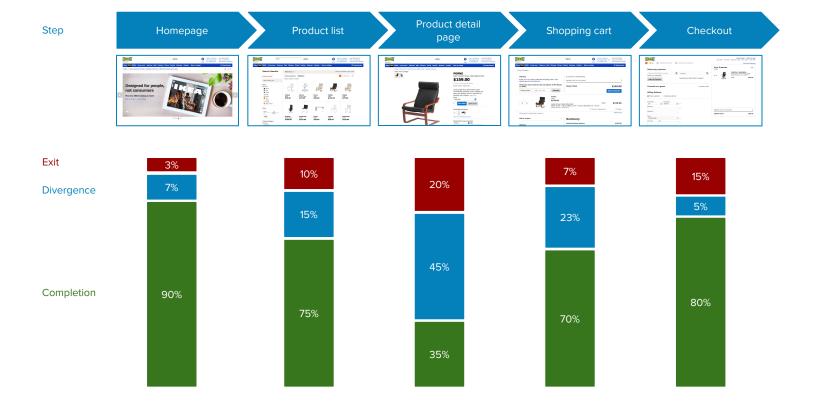














Macro & micro conversions



Macro conversions

E-commerce : Purchases

Travel: Bookings

Media: Paids subscriptions

B2B: Leads



Macro conversion rates are often low

E-commerce : Purchases 2-4%

Travel: Bookings 2-3%

Media: Paids subscriptions <2%

B2B: Leads **2-10**%



Product detail Product list Step Shopping cart Checkout page 25 \$159.00 Action Number 194,200.00

James - Quiede Carel, Depoils Therein garage

sand-franches conductors. Nath, stayables and

sample care baselines about the product for

baselines and buildness, sciences

Sample Carel Carel Carel

Sample Carel

Basel Sample Sample Sample

Basel Sample

B Section (as less)

Sec (ii Televir (ii)

Miller (ii)

Metrics

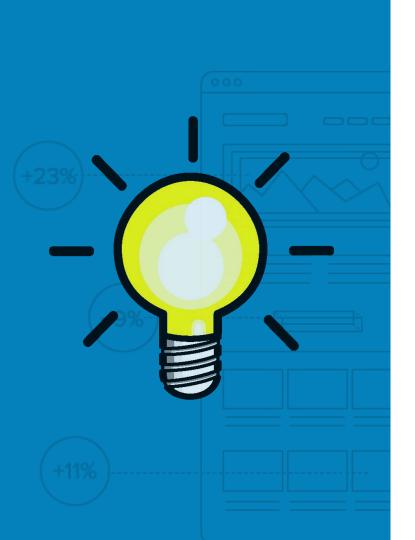
- Searches submitted
- Product views

- Category clicks
- Content clicks

- Filter usage
- Sort usage

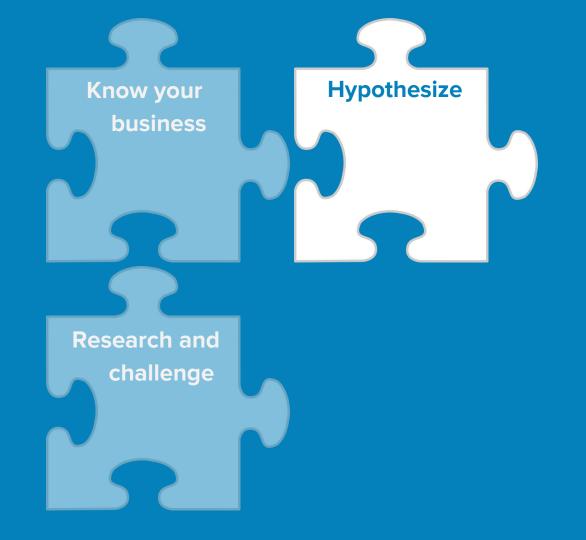
- Add-to-cart clicks
- Info interaction
- Recommended products clicks
- Proceed-to-checkout clicks
- Coupon code usage
- Checkout completion
- Completion time
- Field usage





- Understand your funnel and goals
- Track both your micro and macro conversions





HYPOTHESIS



Problem Solution Result



Problem

Solution

Result



- Clearly define your problem
- Use various data sources to validate your problem
 - Analytics
 - User feedback
 - Competitive review



Problem

Solution

Result



- Describe the change that you are testing
- Propose a rationale for why this will solves your problem
 - Theory about UX
 - Industry example



Problem

Solution

Result



- List the metrics that you would track in the experiment
- Provide a clear criteria for success









В



Hypothesis: If we add press mentions at the bottom of the homepage, we will generate more clicks on the CTA because it will create trust in the brand

Result: No significant difference

Conclusion: Visitors are not driven to convert by press mentions

Next steps: ...???



A



Hypothesis: Because we have unused real-estate above the fold on the homepage, then if we add press mentions, we will increase booking CTA conversion

Result: No significant difference

Conclusion: Visitors are not driven to convert by press mentions

Next steps: What else can we use this real-estate for?









Hypothesis: Because we have unused real-estate above the fold on the homepage, then if we add USPs, we will increase booking CTA conversion

Result: Increased conversion on CTA!

IHRE VORTEILE

Reisen Sie mit unseren professionellen Fahrern am Steuer um die Welt



Bei einer Abholung vom Flughafen warten wir bis zu 60 Minuten auf Sie. Bei allen anderen Abholungen beträgt die kosteniose Wartezeit bis zu 15 Minuten.



ALL-INCLUSIVE **FESTPREIS**

Bei Blacklane gibt es keine versteckten Kosten. Unsere Preise beinhalten sämtliche Gebühren und Buchung garantiert.

PROFESSIONELLE FAHRER All unsere Fahrer sind lizenziert und

arbeiten aufgrund ihrer langjährigen Erfahrungen stets

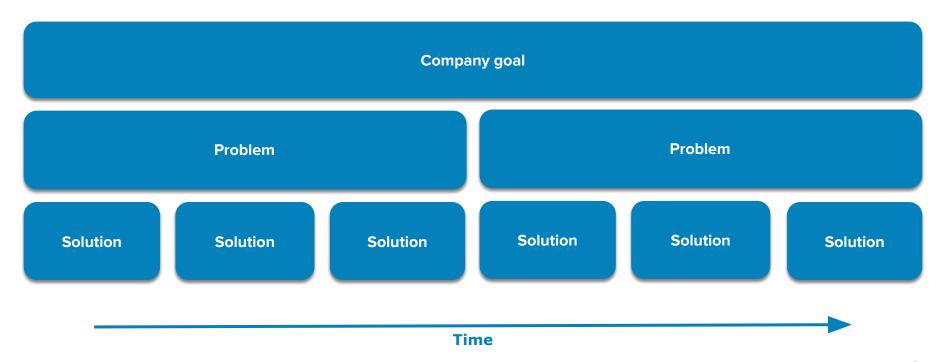
Problem! Bei einer einfachen Fahrt. können Sie bis zu einer Stunde von tundenweisen Buchung bis zu 24 Stunden vor Abfahrt kostenfrei stornieren.

KOSTENLOSE

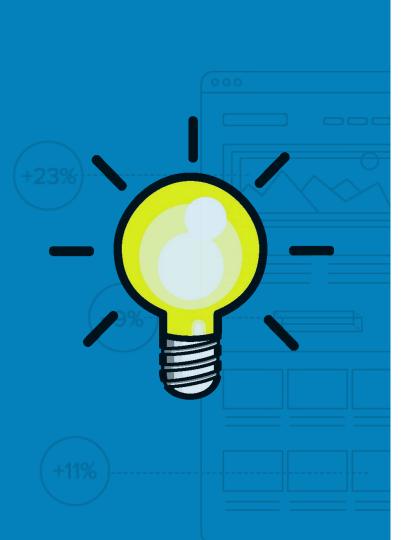
STORNIERUNG



Meaningful hypotheses drive focus

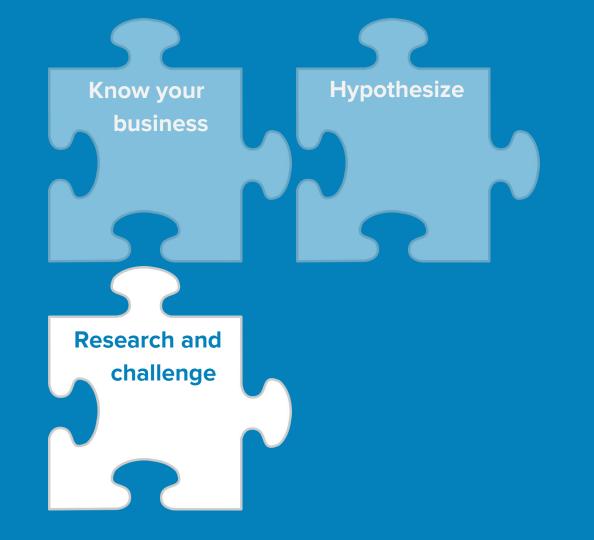






- A strong hypothesis helps you frame your ideas
- Start with a meaningful problem definition





Assumptions should be tested! Suspicions Questions Ideas Perceptions



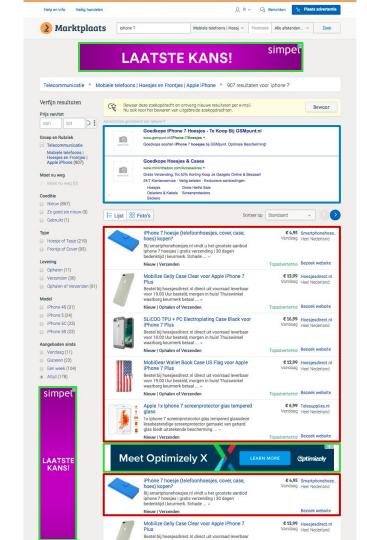
2 Marktplaats





Problem: Customers complaining about excessive monetization





Banners

Google ads

Admarkt

+14%

Engagements with ads

+11%

Product pages per search

Nieuw | Ophalen of Verzenden Apple Iphone 7 case/hoesie

simpel

1GB

internet

nbeperkt sm 100 belminuten

Bestel nu >

NOG 3 DAGEN

Mobilize Gelly Case Clear voor Apple iPhone 7 Bestel bij hoesjesdirect.nl direct uit voorraad leverbaar voor 19.00 Uur besteld, morgen in huis! Thuiswinkel waarborg keurmerk betaal ... -

Bezoek website

€ 13,99 Hoesiesdirect.nl

Vandaag Heel Nederland

€ 4,99 phone hoesje Vandaag Apeldoom, GE



lphone 7 soft gel case! Bescherm je iphone 7! De transparante soft gel case beschermt je telefoon tegen vallen of stoten. In dit ultra ... +

waarborg keurmerk betaal ... -

SLiCOO TPU + PC Electroplating Case Black voor iPhone 7 Plus Bestel bij hoesjesdirect.nl direct uit voorraad leverbaar voor 19.00 Uur besteld, morgen in huis! Thuiswinkel

Bezoek website € 12,99 Hoesjesdirect.nl

€ 16,99 Hoesjesdirect.nl

Vandaag Heel Nederland

MobiGear Wallet Book Case US Flag voor Apple iPhone 7 Plus Bestel bij hoesjesdirect.nl direct uit voorraad leverbaar voor 19.00 Uur besteld, morgen in huis! Thuiswinkel waarborg keurmerk betaal ... +

Vandaag Heel Nederland Reznek weheite

Vandaag Cadzand, ZE

€ 6.99 Telesupplies.nl

Vandaag Heel Nederland

€ 620,00 Kim



Geseald / nieuw / ongeopend/ Apple iPhone 7 black 32GB + Bon Hallo, bij deze mijn gloednieuwe / ongeopend/ apple phone 7 black 32gb + bon. Gloednieuw/ongebruikt. Gekregen als een van de eerste ... +

Nieuw | Ophalen of Verzenden

Nieuw | Verzenden

Nieuw | Ophalen of Verzenden



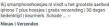
1x iphone 7 screenprotecotor glas tempered glassdeze krasbestendige screenprotector gemaakt van gehard glas biedt uitstekende bescherming ... +

Bezoek website



iPhone 7 Plus hoesje (hoesjes, cover, case)

€4,95 Smartphonehoes. Vandaag Heel Nederland



Bezoek website





Phone 7 case by Case Mate Case mate barely there clear case voor de iphone 7 nieuw, niet gebruikt (geen verzendkosten)

€12,50 Raymond



Vandaag Stein LI

Mobigear Soft TPU Leopard voor Apple iPhone 7 Bestel bij hoesjesdirect.nl direct uit voorraad leverbaar voor 19.00 Uur besteld, morgen in huis! Thuiswinkel

€ 12,99 Hoesjesdirect.nl Vandaag Heel Nederland

Bezoek website



Apple Ultra dun Iphone 7 silicone gel hoesie Ultra dun iphone 7 silicone gel hoesiede iphoneâ 7 bliift optimaal beschermd met dit trendy beschermhoesje!alle

Phone 4 4s 5 5c 5s 6 6s 6 SE 7 plus flip cover

€ 6,99 Telesupplies.nl

voordelen op een rij:- ... + Nieuw | Verzenden

Vandaag Heel Nederland Bezoek website

€ 9,95 NUPC service rijn... Vandaag Rijnsburg, ZH



Met dit luxueuze zacht leren hoesje hoeft u niet meer bang te zijn voor beschadigingen aan uw toestel.dit hoesje biedt rondom bescherming ... + Nieuw | Ophalen of Verzenden

waarborg keurmerk betaal ... +

waarborg keurmerk betaal ... +

Nieuw | Ophalen of Verzenden

Griffin Survivor Journey Clear voor Apple iPhone Bestel bij hoesjesdirect.nl direct uit voorraad leverbaar voor 19.00 Uur besteld, morgen in huis! Thuiswinkel

€ 29,99 Hoesjesdirect.nl Vandaag Heel Nederland

Optimization requires freedom!









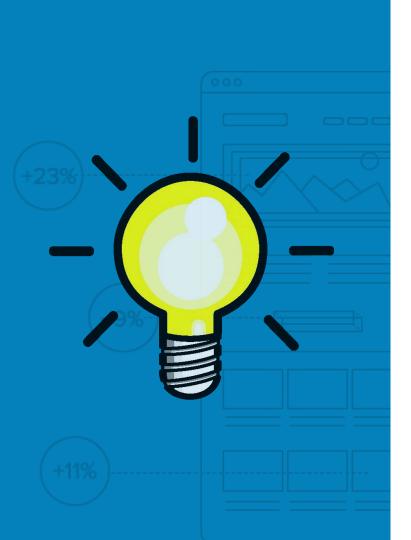












- Strive to answer all questions and assumptions
- You need to have the freedom to explore



Know your business

Understand your funnel and goals

Track both your micro and macro conversions

Hypotheses are key

A strong hypothesis helps frame your ideas

Start with a meaningful problem definition

Challenge assumptions

Strive to validate all assumptions

Allow to have freedom to try things

Thank you for listening... Questions?



Lev Tatarov





