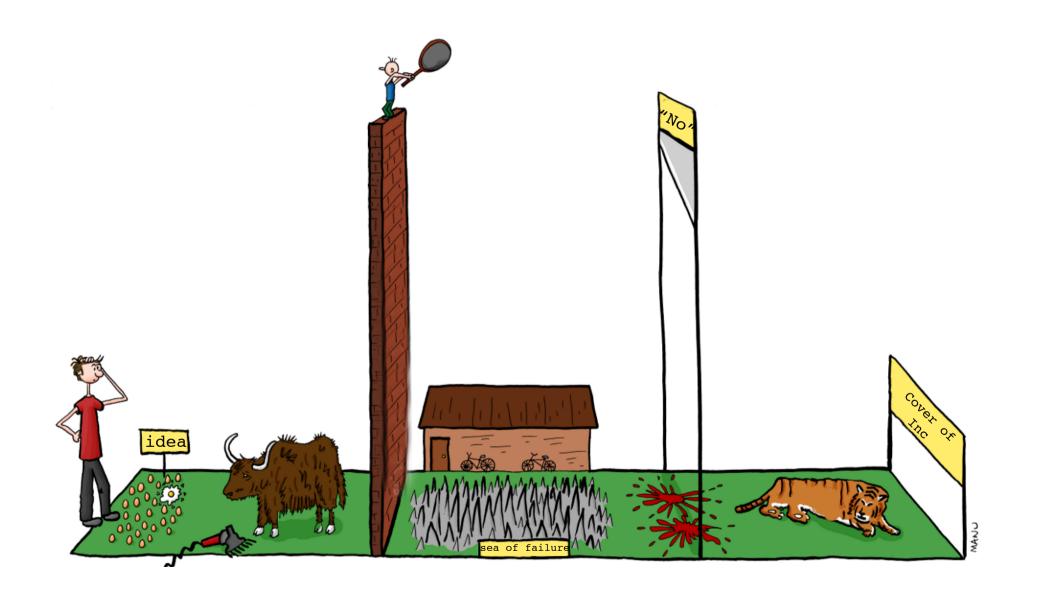
Innovation at Google ...plus a manifesto Patrick Copeland copeland@google.com twitter: copelandpatrick

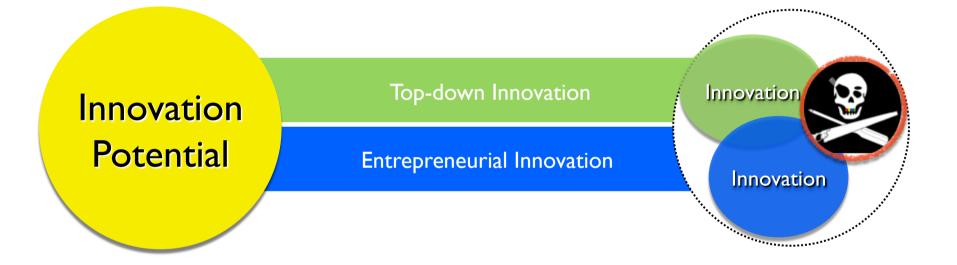
#gotocph
#pretotyping
#thoughtland
#buildrightit



Lost In Translation



Top-down	Entrepreneurial
Innovation	Innovation
 Create a Research Lab Hire a bunch of PhDs Ideas: few, big & from the top Close and secretive environment and results Formal research proposals Papers, patents,, products 	 Create an innovation culture Use all employees Ideas: lots from everywhere Open and shared environment and results Informal proposals – if that Prototypes, products,, papers



More on this: IEEE's Computer Magazine, April 2011

the innovation odds

X% of all new Y fail ...

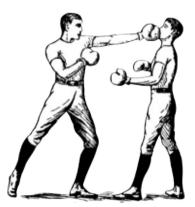
... even if they are very well implemented

Build the right 'it' VS. Build 'it' right

the pretotyping manifesto

innovators beat ideas **pretotypes** beat productypes data beats opinions doing beats talking **simple** beats complex **now** beats later commitment beats committees http://pretotyping.org

innovators beat ideas



Ideas, ideas, ideas ...

"We need some innovative **ideas!**"

"Where's the next billion dollar idea?"

"I have an **idea** that will change the world!"

\$ value of ideas?

Buy My Ideas

I am no Steve Jobs, but I dress like him...

Patrick's 5B DKK idea



Bidding starts at 5,000 DKK

Price is for idea only. There is no explicit or implicit offer of help to implement the idea. The idea may not be implemented in a cost-effective way — possibly not at all. The seller of the idea *believes* that the idea is a good one, but cannot guarantee its success. Since we don't know all the ideas that have been thought, the originality of this idea cannot be guaranteed; it's very possible that other people have had this idea. This idea is non-returnable and the sale is final. No credit or refunds will be issued.

SF bay area craigslist > san francisco > resume > resumes / job wanted

Ideator for hire. \$10 per idea. (pacific heights)

Date: 2010-04-03, 10:19AM PDT

People are always telling me I have fantastic business ideas. Some of them have been turned into VC-funded companies and I have already 3 patents to my name.

In the past I've worked hard to turn ideas into products, but now I just want to focus on generating ideas.

For just \$10/idea I will provide you with new business ideas. You can even tell me what type of ideas you want.

Here are some of the categories where I already have some great ideas:

- iPod or iPad applications
- Games (electronic or board)
- Electronic devices and Gizmos (the next iPad or iPod, electronic guitar, virtual pets)
- Collector items (things similar to Beanie Babies, Pez dispensers, etc.)
- Marketing or advertising ideas.
- Many more

\$10/idea is my introductory pricing. After that, I will probably raise my prices to \$20/idea.

If you need some fresh ideas, I am the man for you.

If you are interested, please send me an email with a phone number.

- · it's ok to contact this poster if you are a potential employer or other principal
- · Principals only. Recruiters, please don't contact this job seeker.
- · it's NOT ok to contact this poster with services or other commercial interests



Edison and the lightbulb What's the big deal?





Idea: use electricity to make light Idea: electricity to cause incandescence Idea: vacuum + bulk to prevent burning



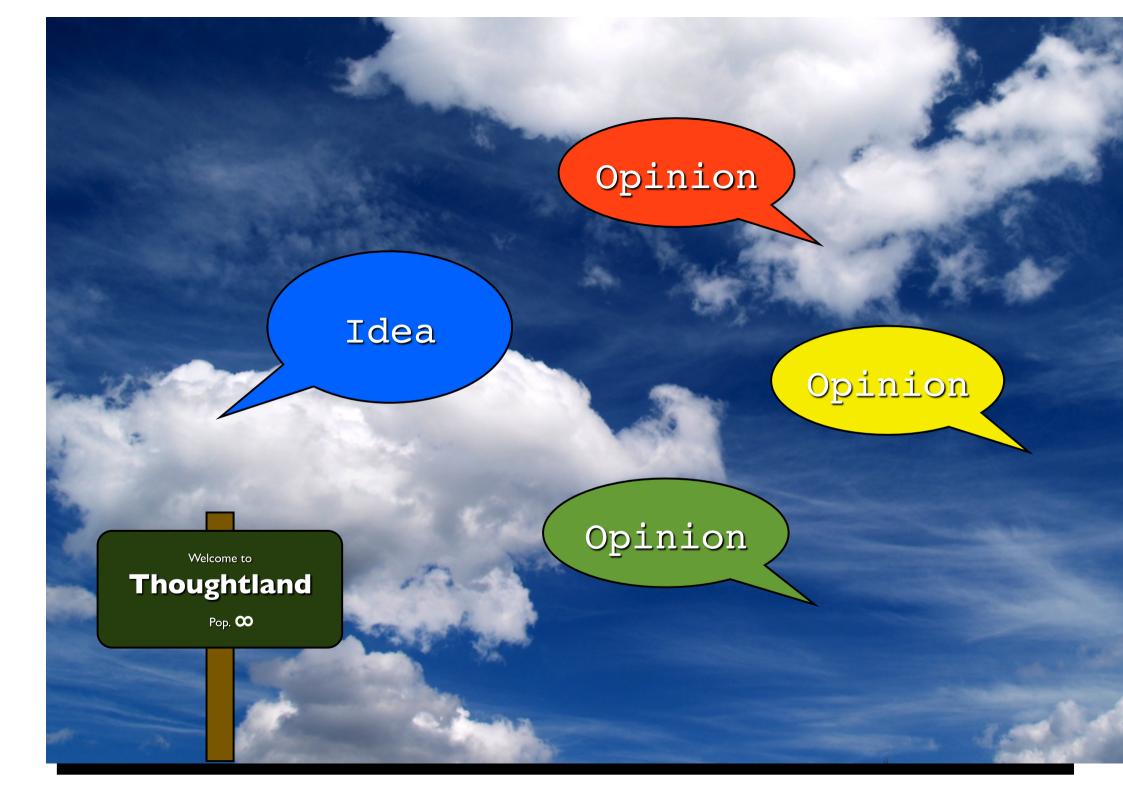


1%

$\begin{array}{c} \# \text{ of innovators} \\ \cong \mathbf{0} \\ \# \text{ of ideas} \end{array}$



Another **huge** problem with ideas ...































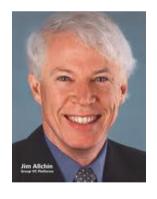










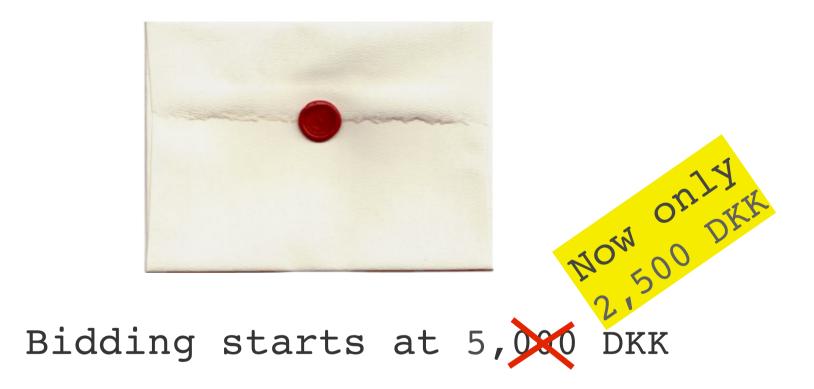








Sr ot 50% Great idea from Patrick



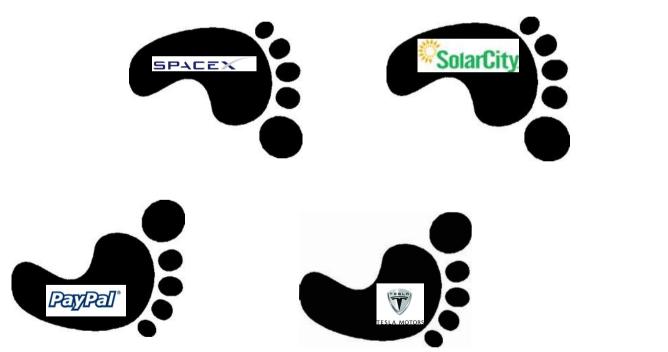
If you want innovation,
 don't look for ideas
 (lightbulbs),

look for innovators
 (Thomas Edisons).

How Do You Find Innovators?

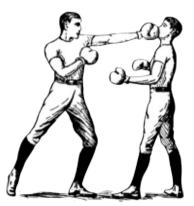


Spot the Innovator





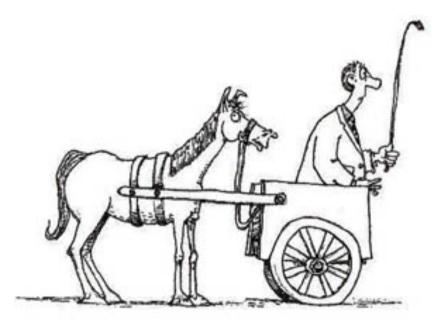
pretotypes beat productypes



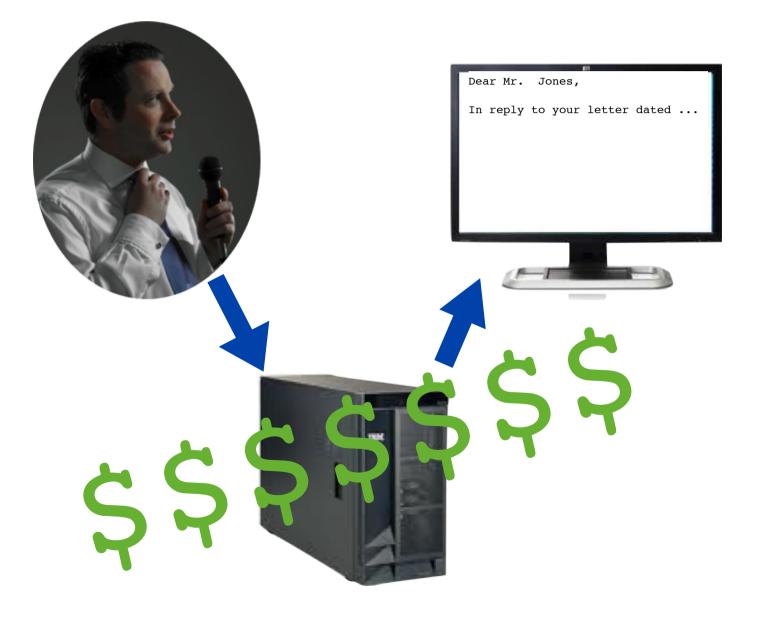
The Innovator's Nightmare

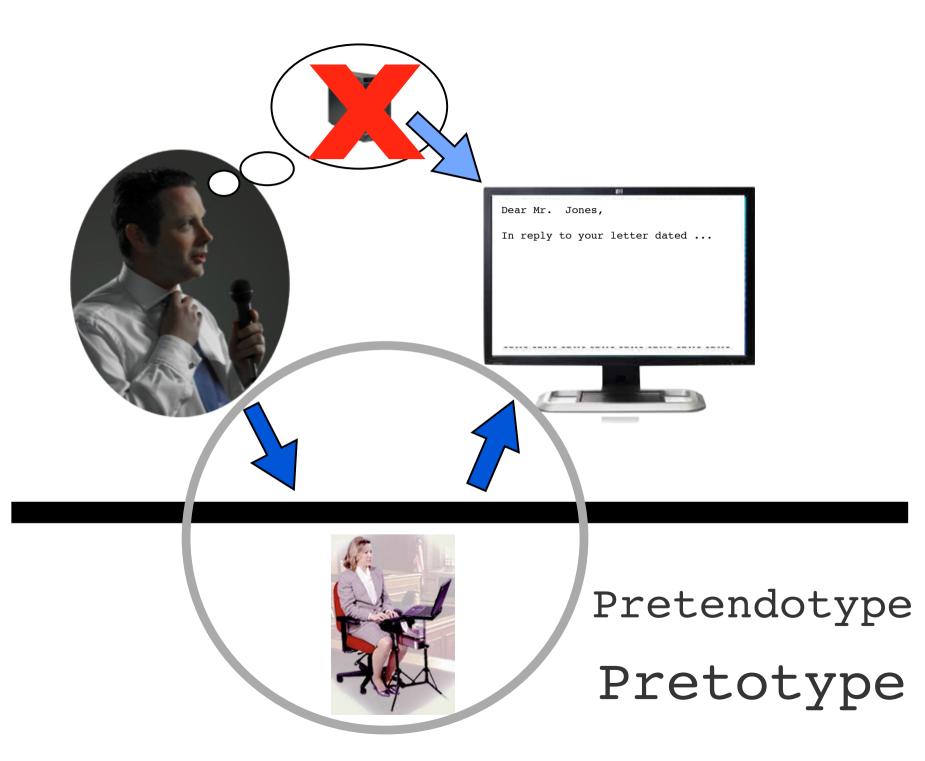
Spending years and millions, to build and perfect a product or service that people don't need or want.

Building the right "it" vs. Building "it" right

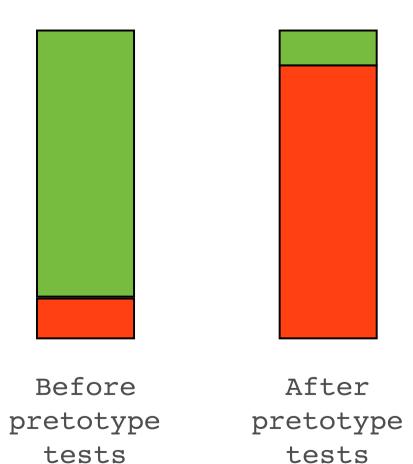


IBM & Speech-to-Text Technology



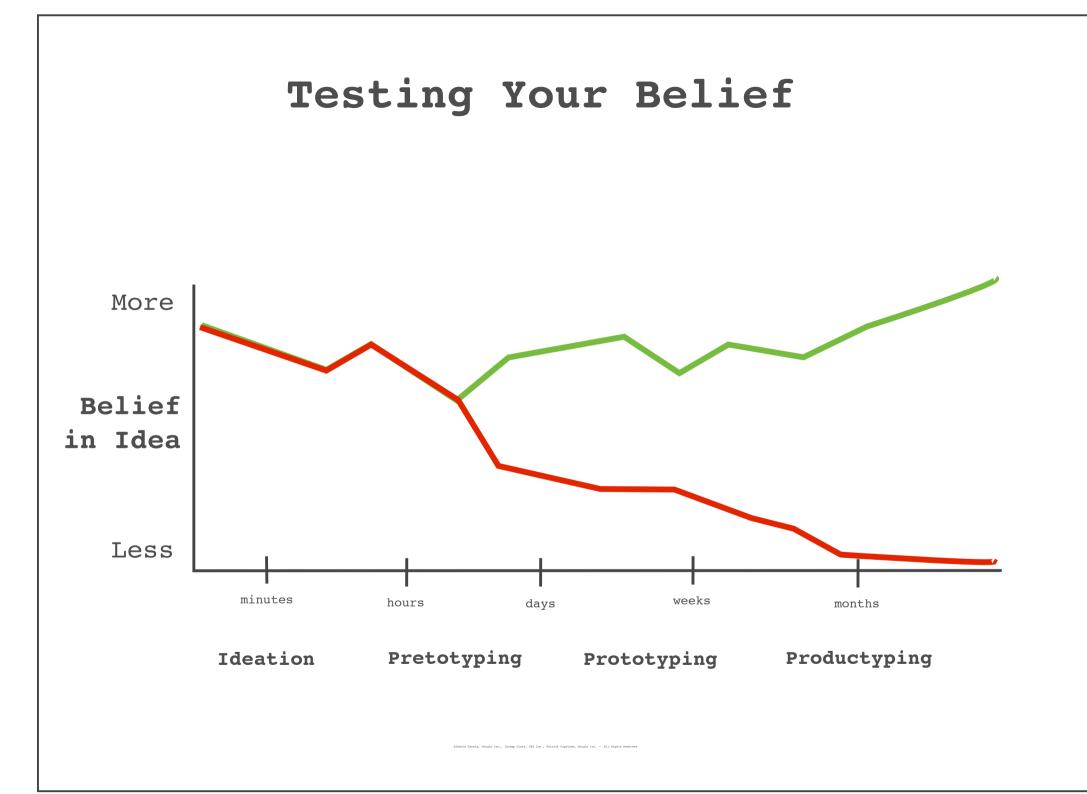


"We love the *idea* of speech-to-text and we'll pay big \$ for it if you can built *it* right."



The Original Palm "Pre"





Pretotyping

Fake it before you make it

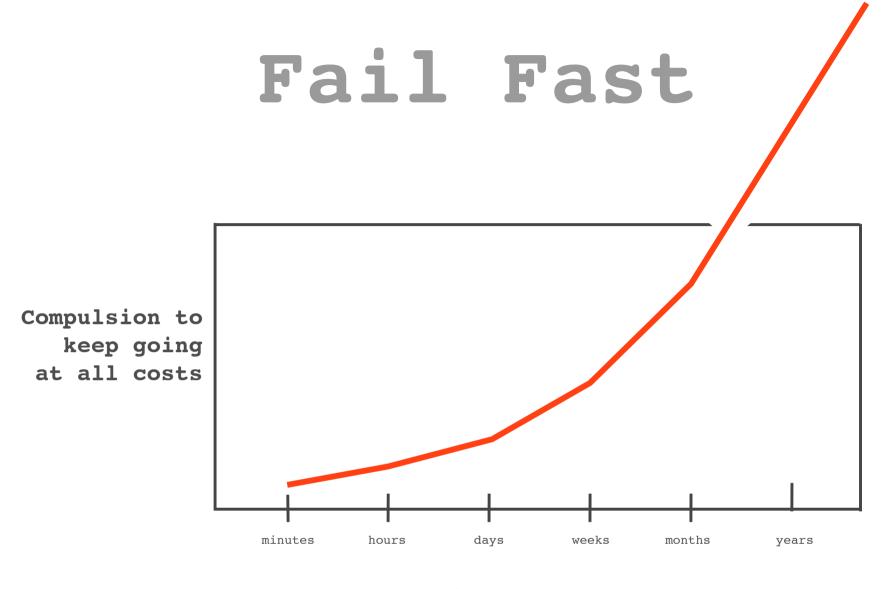
Prototyping

Pretotyping

- Investment: days, weeks
- Q: Can we build it?
- **Deliver:** Working prototype
- Investment: hours, days
- Q: Would we use it?
- **Deliver:** Working pretotype







Time Invested

Exercise

Create your own innovative Android app

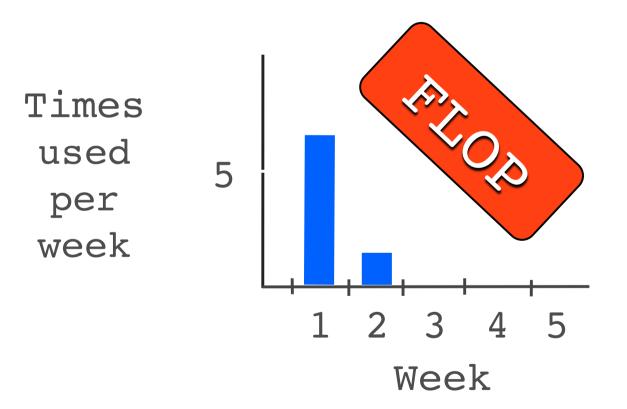
<u>paper</u>-pretotypes

5 minutes



PARK-JERK DATE FINIS TIMETTIME Loc. OT. 11.05 100 91190 CHOOSE OFFErse DD 4 STREET march 2-234.40 LILETSE PROTO 甲 822 TAKE DIA (T

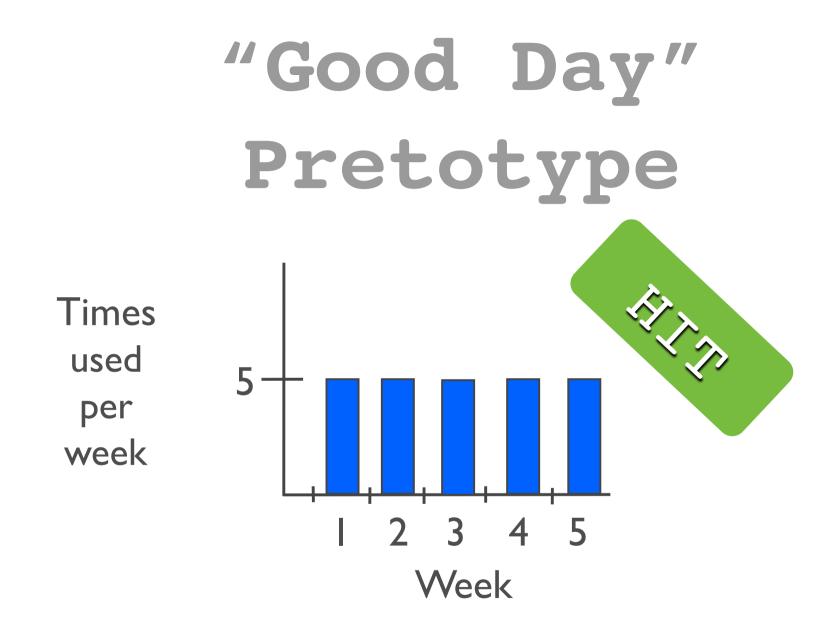
Park-Jerk Pretotype



"We are not retreating - we are advancing in another direction."

Oliver P. Smith

@ GOOD GOOGLE DAY () BAD GOOGLE DAY I HAD A GOOD, FUN, PRODUCTIVE DAY 1 HAO A BAD, BORING, UPPRODUCTIVE DAY ..) SEND





Make sure you are building the right thing before you invest a lot in building it right.

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data beats opinions



Are you on the right track?

(i.e. building the right 'it')

Credibility

Usage data



Pretotype Prototype



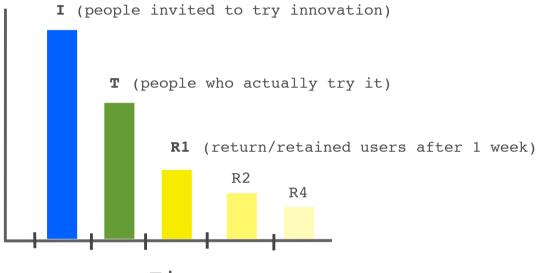
Idea LOW

HITOrFLOP

Pretotype

F.L.O.P. Failure in Launch Operations or Premise

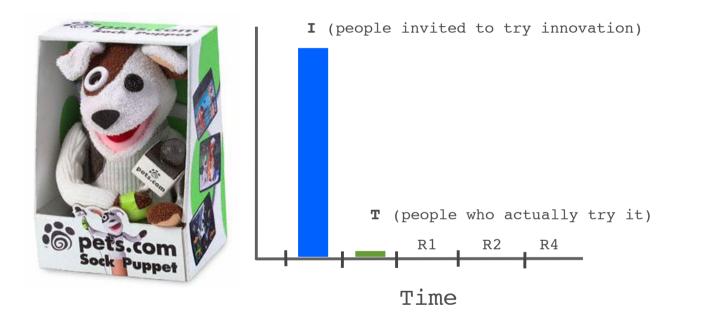
HITOrFLOP



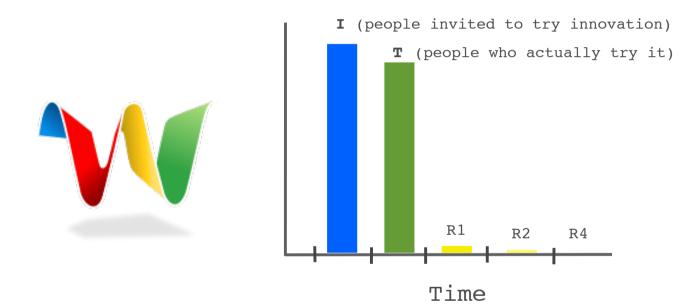


T / I = % of tried / invited R_n/T = % of return user after n weeks R_{n+1}/R_n = % of returning users loss over time

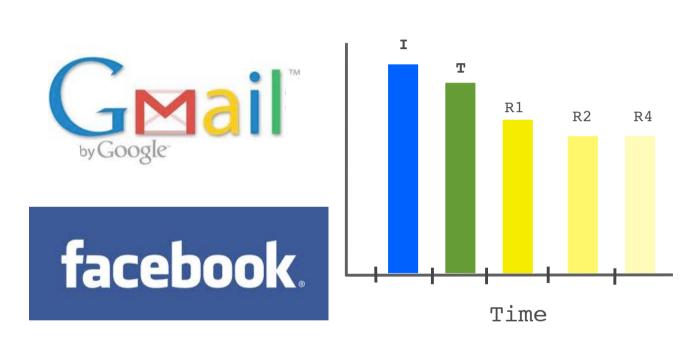
FLOP

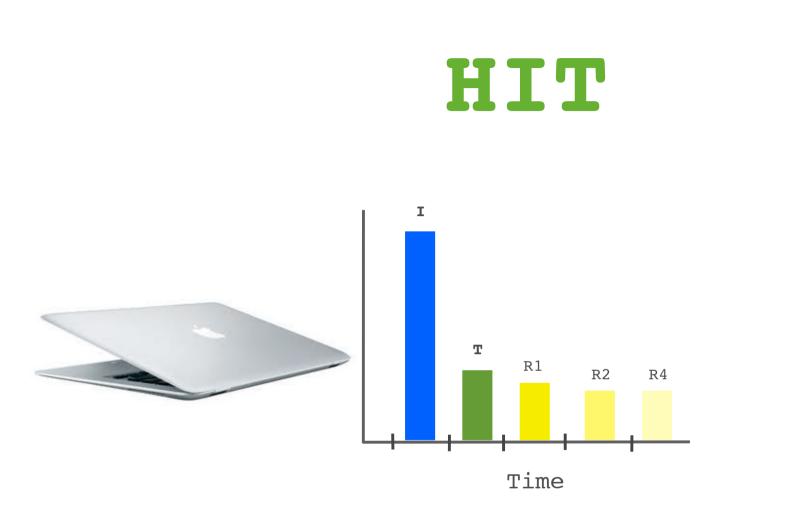


FLOP



Huge HIT





Ditch on both sides of the road

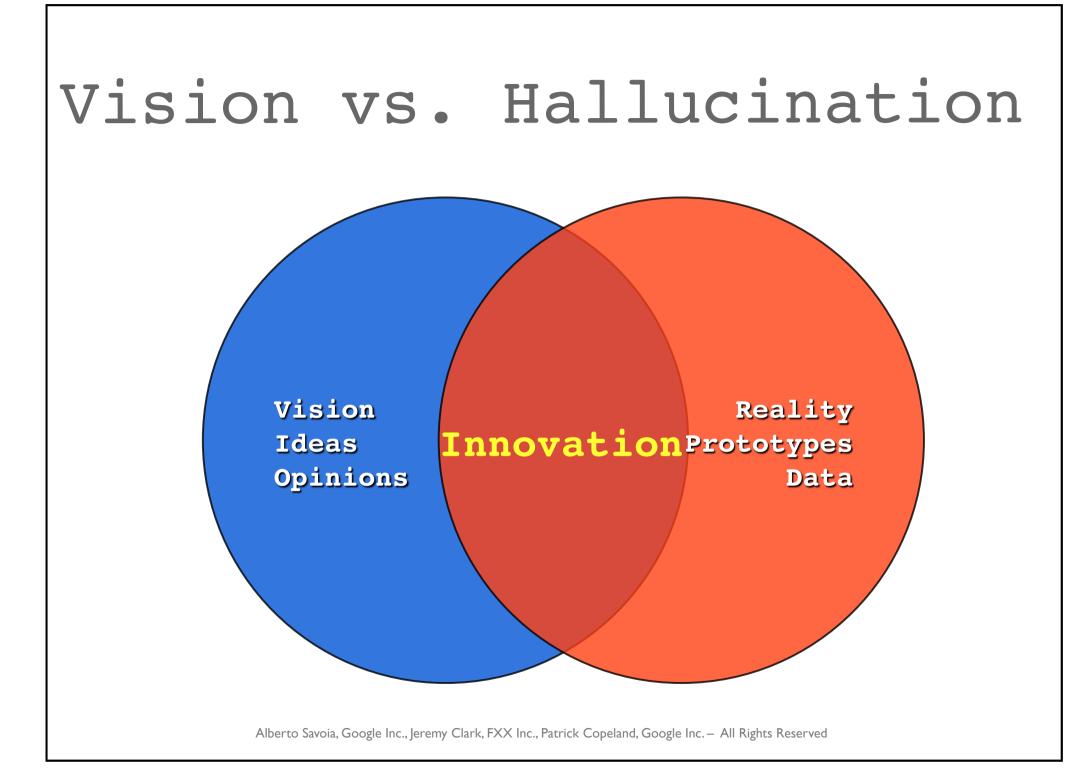
That's dumbest/best idea I've ever heard



Let's test 500 shades of blue



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Ok, ok, but can anyone do this? At any stage? In any market condition?

Clone Wars

Then: Mainframe vs PC clones

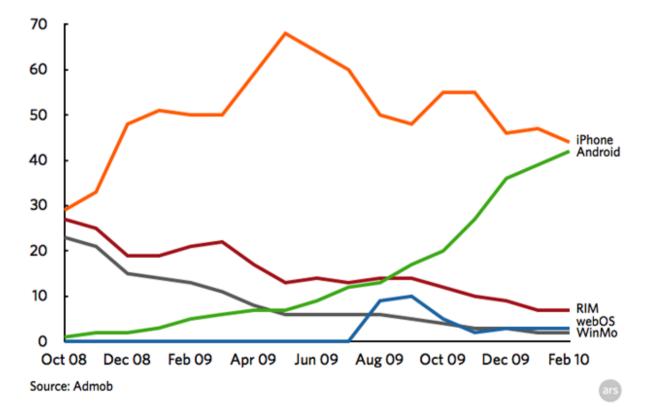


Clone Wars

Now: Android

Mobile OS Traffic Share: US

Percent



Fast Following

Then: Lotus Notes vs Office

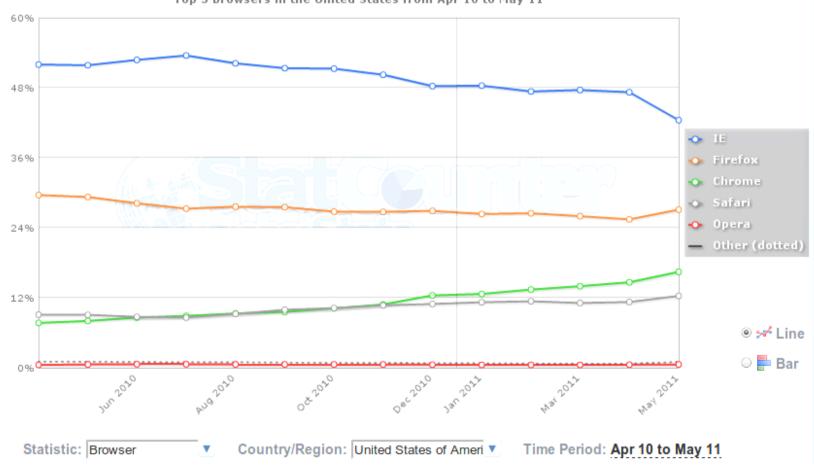




Fast Following

Now: Chrome

StatCounter Global Stats Top 5 Browsers in the United States from Apr 10 to May 11



Unique Advantage

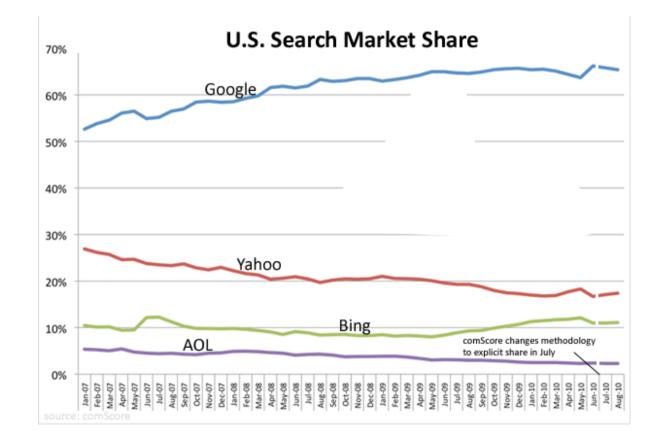
Then: AT&T vs Sprint





Unique Advantage

Now: Google Search



Iterate early & often

Invent. Test. Test.

Welcome to DataVisionville Pop.12

Repeat.

Test.

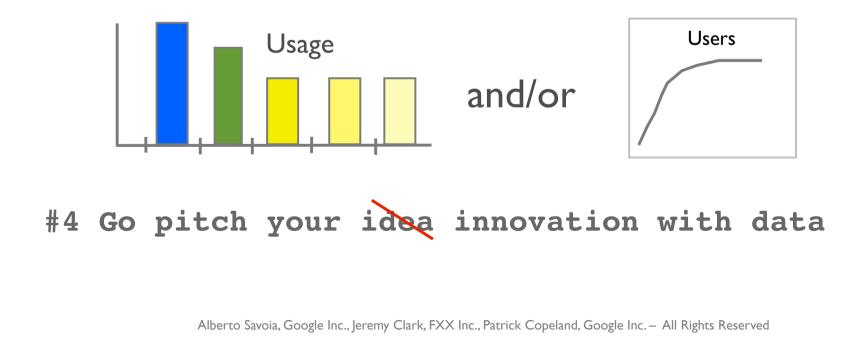
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Run multiple experiments with small subsets of target population



Using the Manifesto

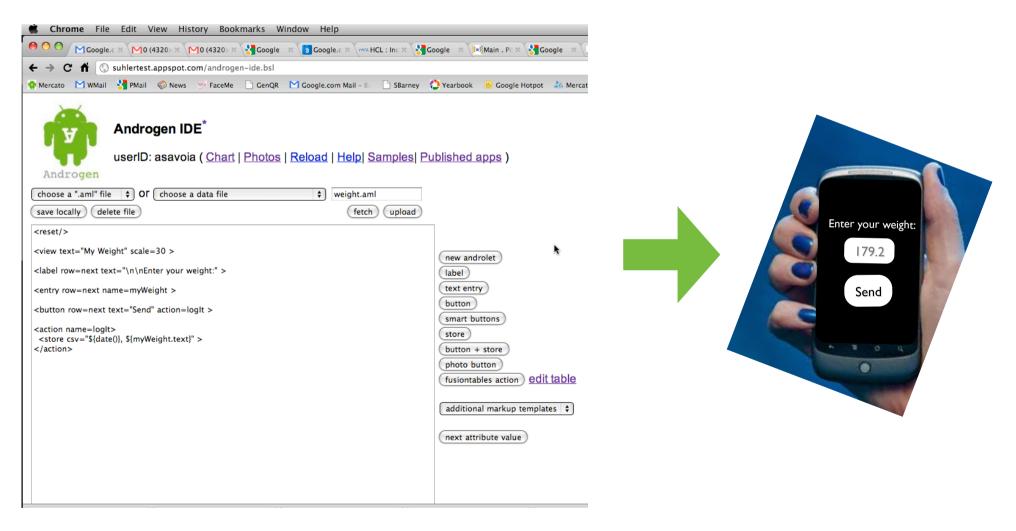
- **#1** Try some Pretotypes/Experiments
- **#2** Develop, launch <u>and test</u> ideas to small group
- **#3** Abandon, or Repeat #2 until you see this:



Papertyping The Birth of Android Pretotyping

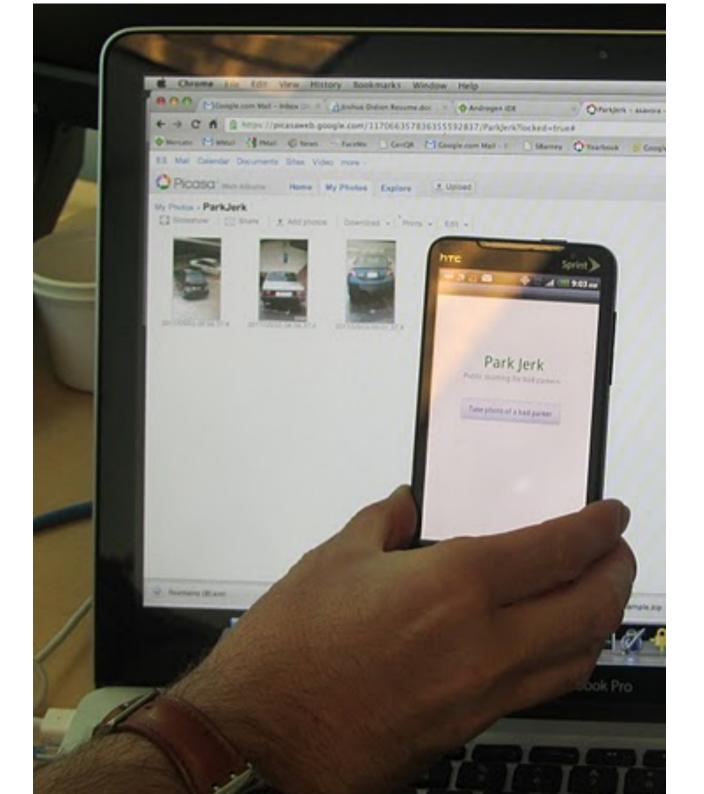






Androgen Pretotyping Tool for Android



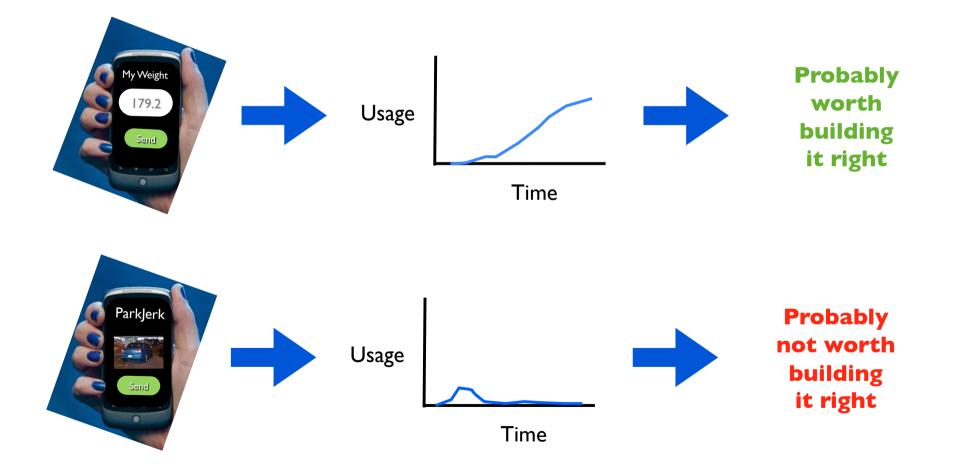


Rapid Sharing

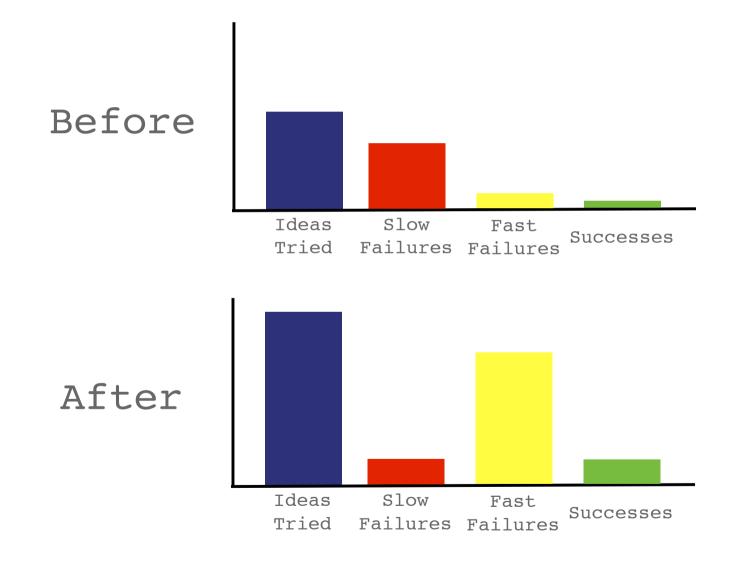




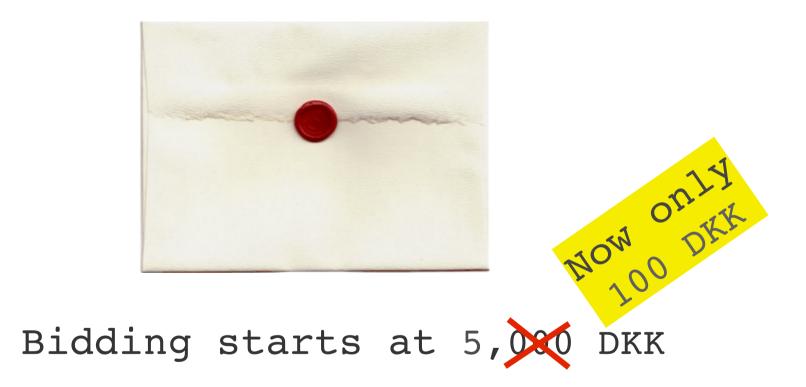
Rapid, real-time usage stats



The Pretotyping Effect



Shoffer Last Great idea from Patrick



Innovation at Google ...plus a manifesto Patrick Copeland copeland@google.com

twitter: copelandpatrick

#gotocph
#pretotyping
#thoughtland
#buildrightit

the pretotyping manifesto

innovators beat ideas pretotypes beat productypes data beats opinions doing beats talking **simple** beats complex **now** beats later commitment beats committees http://pretotyping.org

