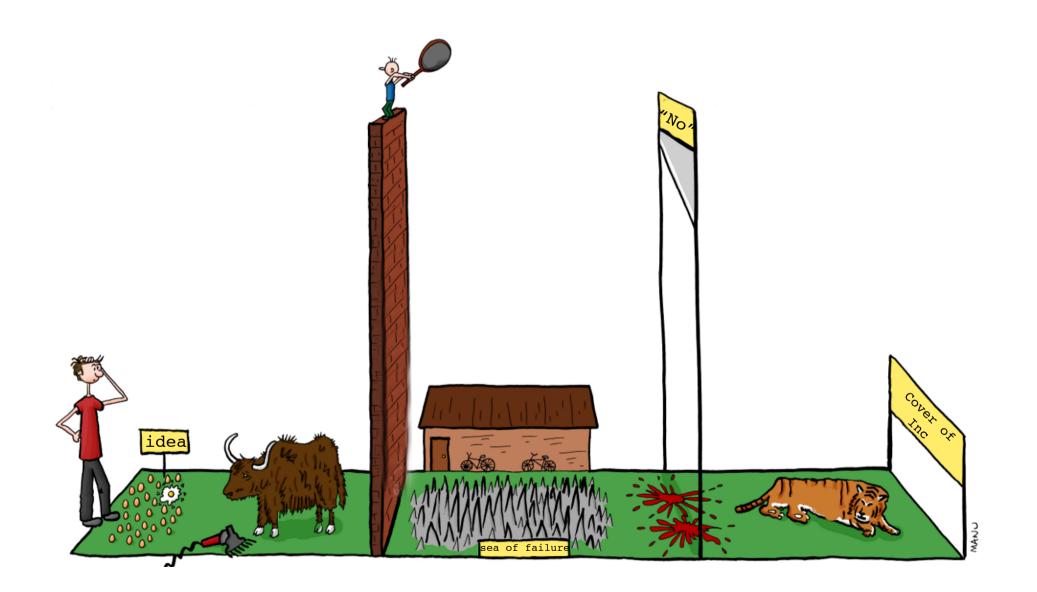
#### Innovation at Google ...plus a manifesto Patrick Copeland <a href="mailto:copeland@google.com">copeland@google.com</a> <a href="mailto:twitter:copelandpatrick">twitter: copelandpatrick</a>

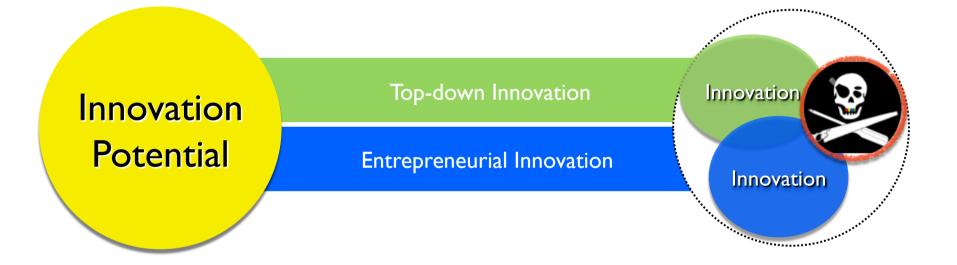
#gotocph
#pretotyping
#thoughtland
#buildrightit



### Lost In Translation



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



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

### the innovation odds

#### X% of all new Y fail ...

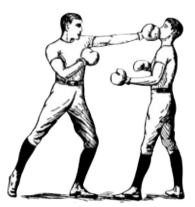
... even if they are very well implemented

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?"

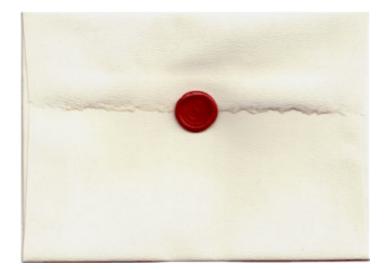
"I have an **idea** that will change the world!"

# \$ 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



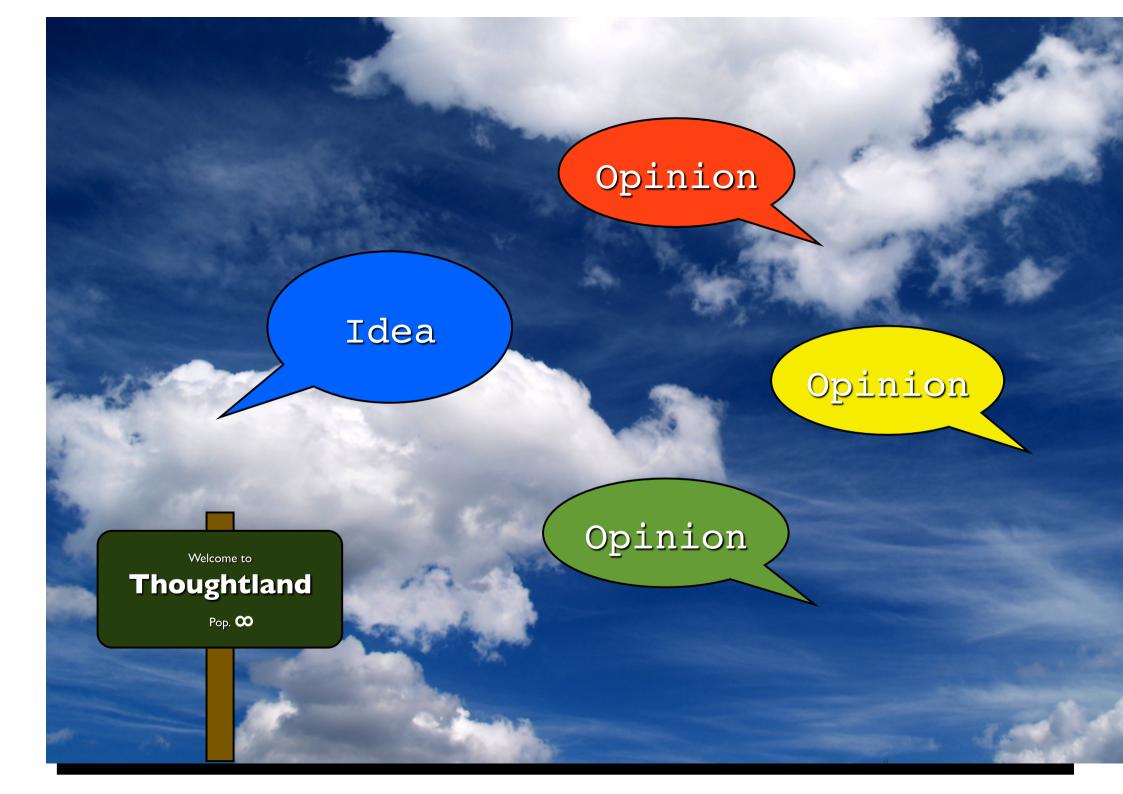


1%

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



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































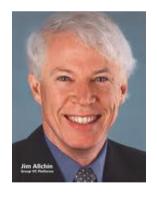










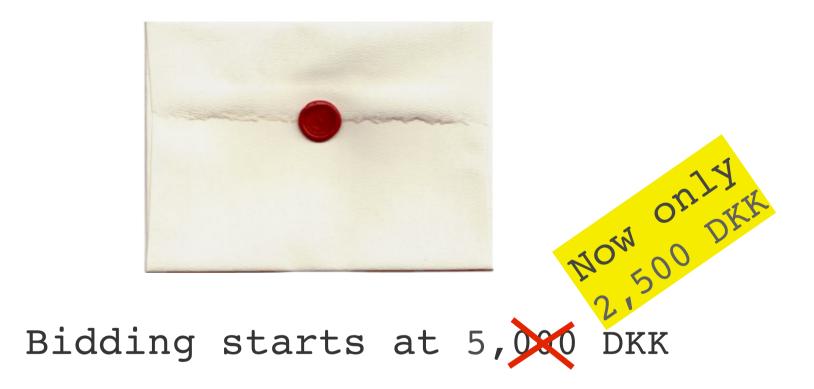








## Sr ot 50% Great idea from Patrick



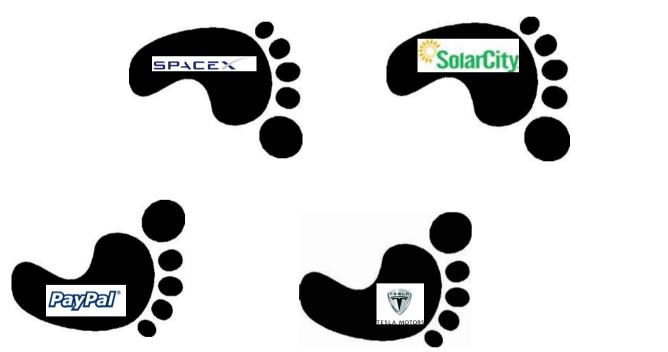
If you want innovation,
 don't look for ideas
 (lightbulbs),

look for innovators
 (Thomas Edisons).

# How Do You Find Innovators?



## Spot the Innovator





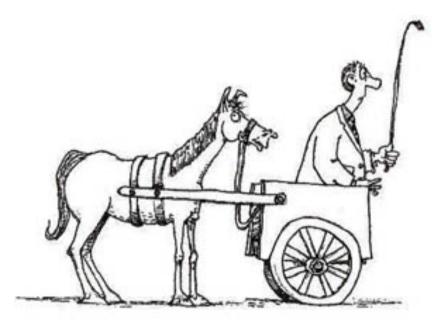
# pretotypes beat productypes



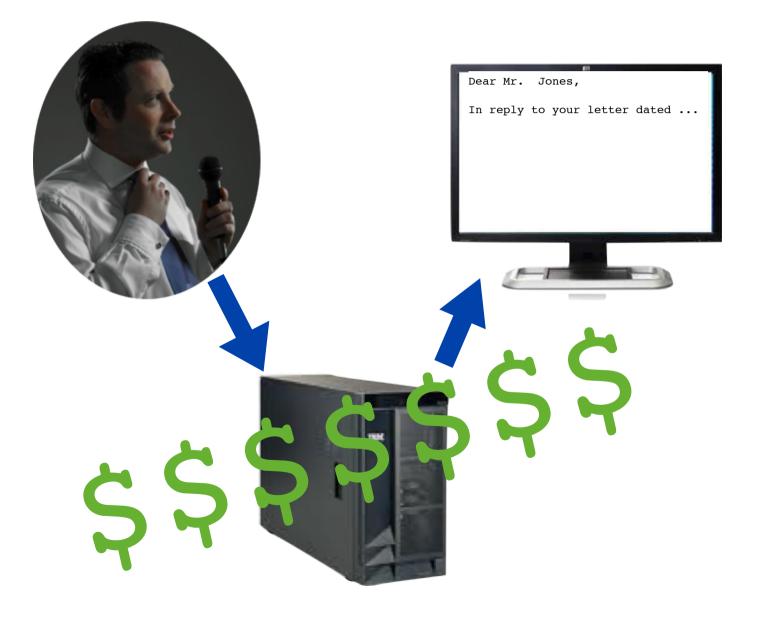
#### The Innovator's Nightmare

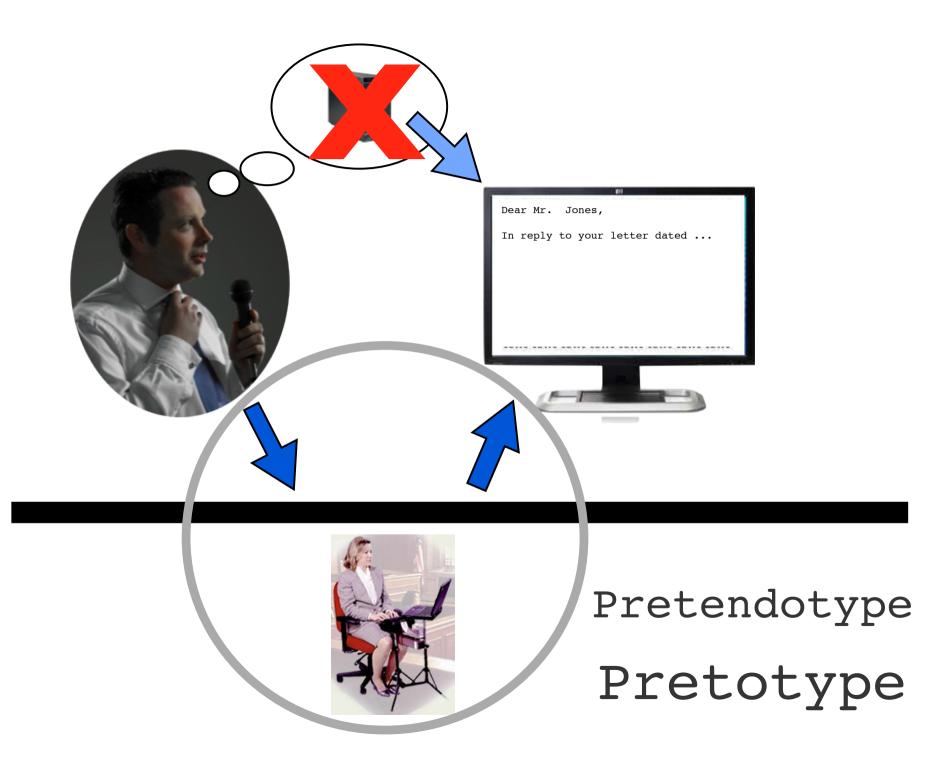
Spending years and millions, to build and perfect a product or service that people don't need or want.

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

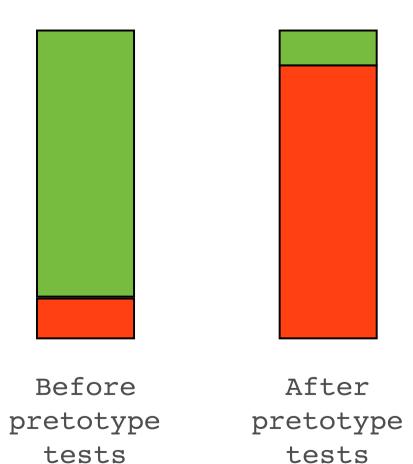


#### IBM & Speech-to-Text Technology



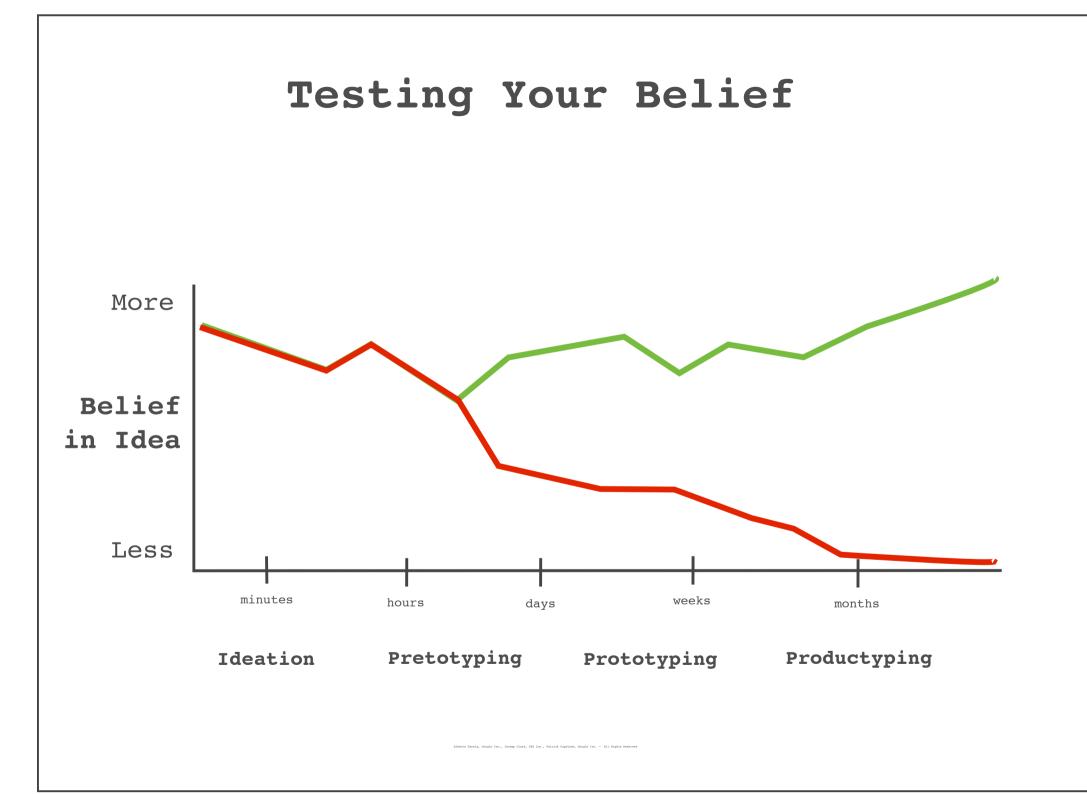


"We love the *idea* of speech-to-text and we'll pay big \$ for it if you can built *it* right."



#### The Original Palm "Pre"





# Pretotyping

Fake it before you make it

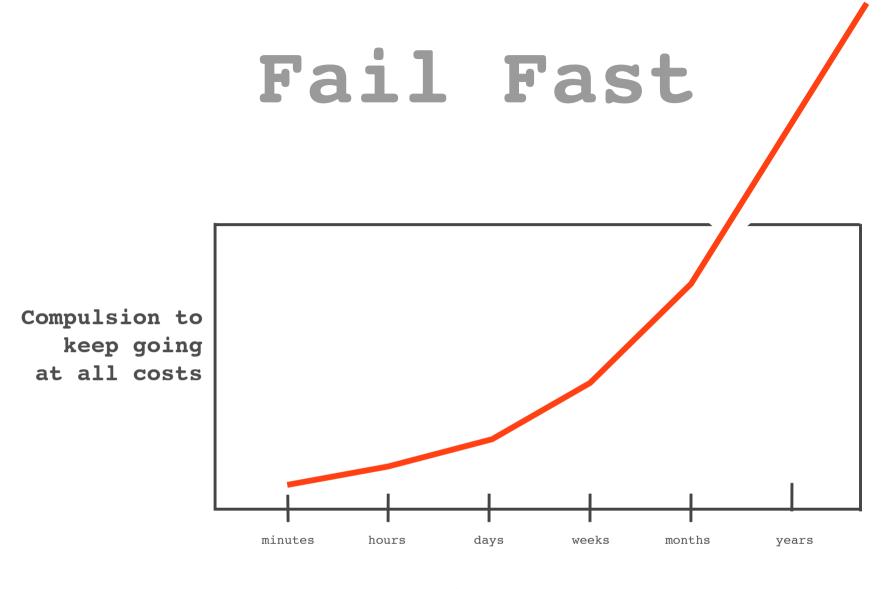
#### Prototyping

#### 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

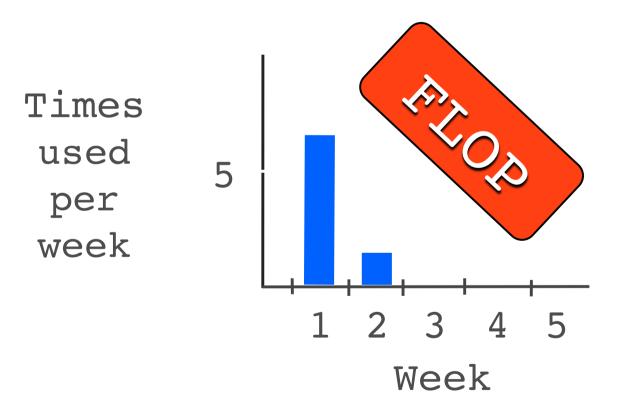
<u>paper</u>-pretotypes

#### 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

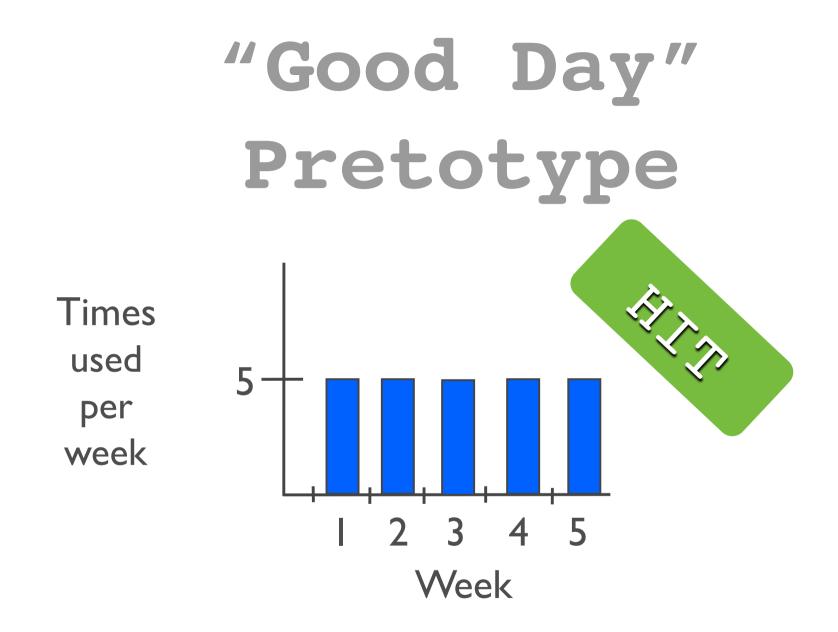
#### Park-Jerk Pretotype



"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

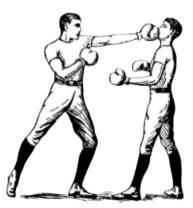




#### Make sure you are building the right thing before you invest a lot in building it right.

Alberto Savoia, Google Inc., Jeremy Clark, FXX Inc., Patrick Copeland, Google Inc. - All Rights Reserved

# data beats opinions



### Are you on the right track?

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

#### Credibility

Usage data



Pretotype Prototype



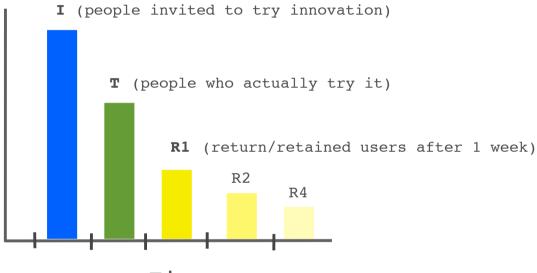
Idea LOW

### HITOrFLOP

Pretotype

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

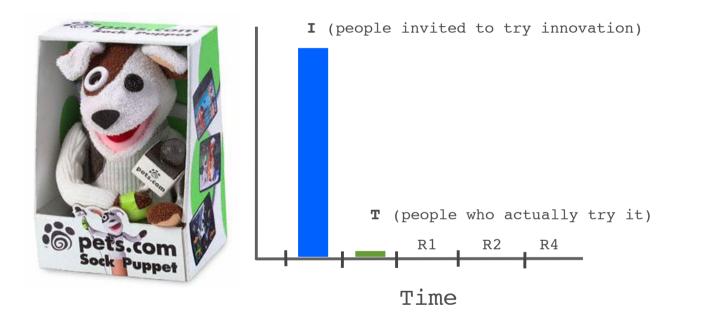
### HITOrFLOP



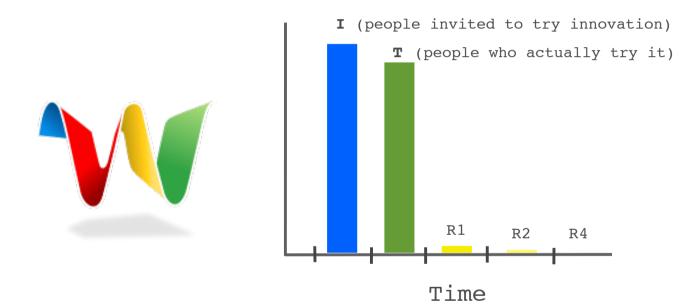


T / I = % of tried / invited R<sub>n</sub>/T = % of return user after n weeks R<sub>n+1</sub>/R<sub>n</sub> = % of returning users loss over time

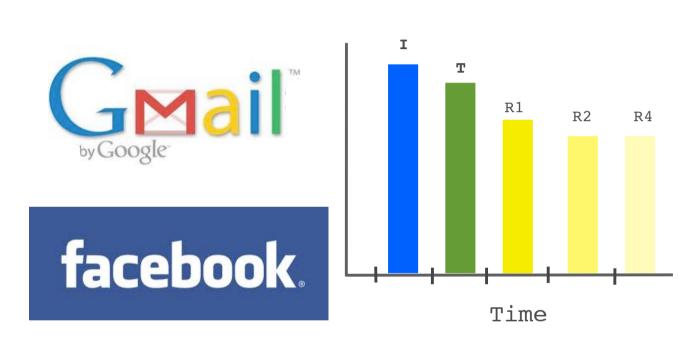
### FLOP

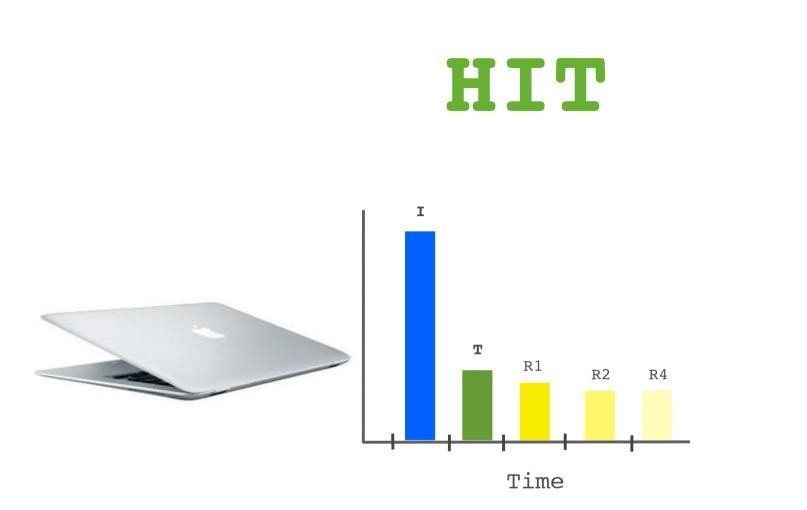


### FLOP



### Huge HIT





# Ditch on both sides of the road

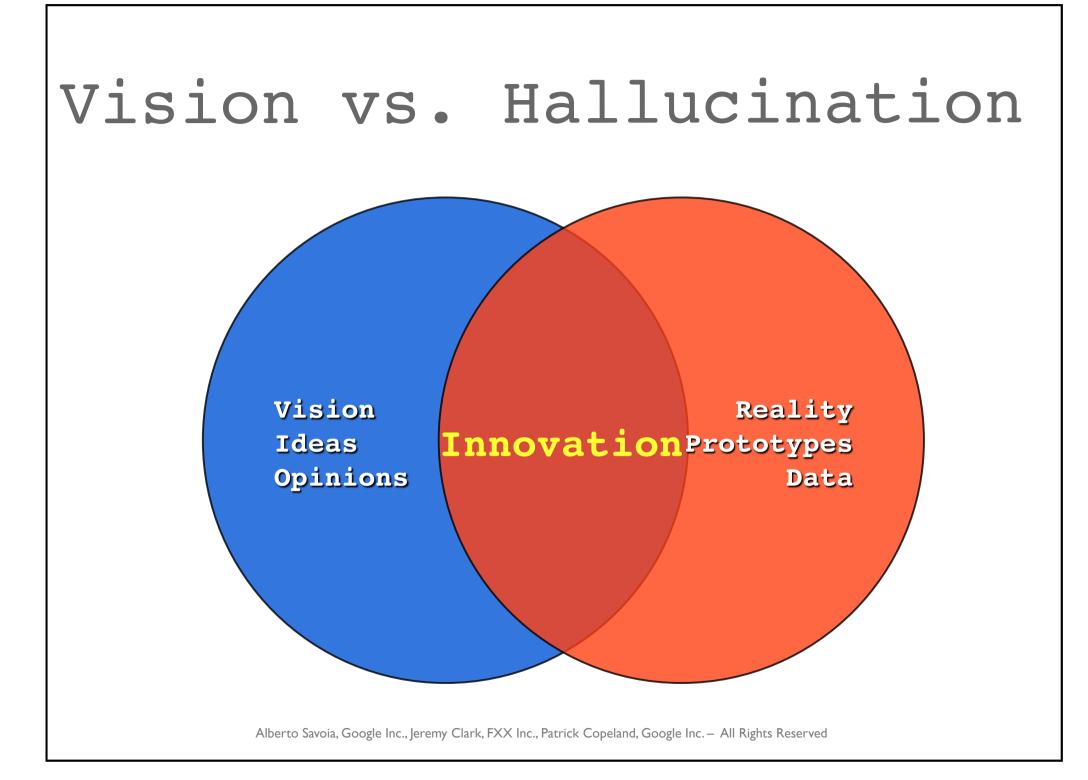
#### That's dumbest/best idea I've ever heard



Let's test 500 shades of blue



Alberto Savoia, Google Inc., Jeremy Clark, FXX Inc., Patrick Copeland, Google Inc. – All Rights Reserved



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

### **Clone Wars**

#### Then: Mainframe vs PC clones

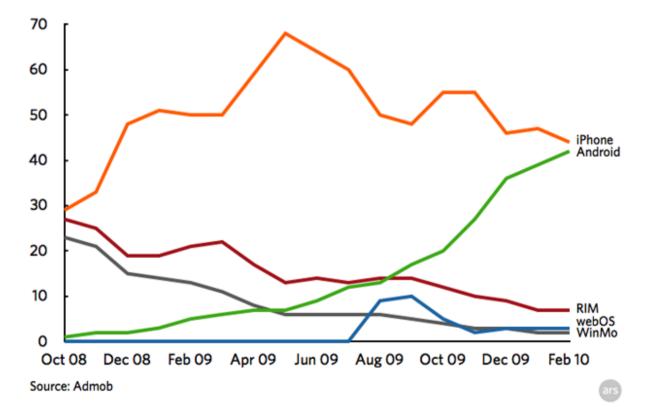


#### Clone Wars

#### Now: Android

#### Mobile OS Traffic Share: US

Percent



### Fast Following

#### Then: Lotus Notes vs Office

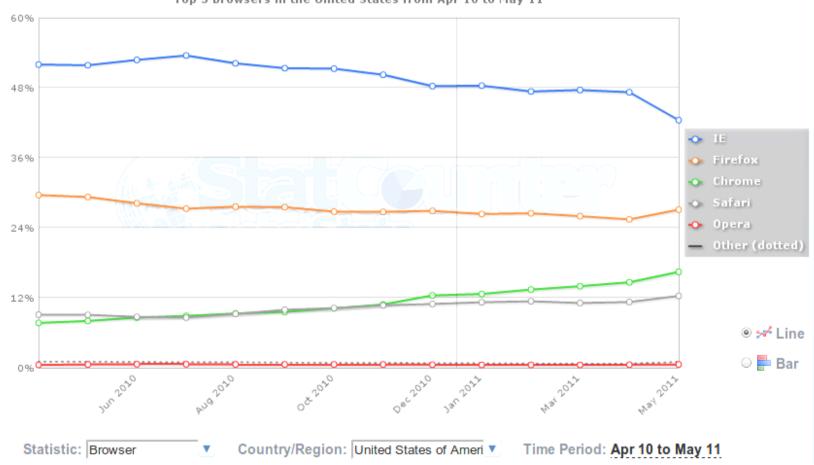




### Fast Following

Now: Chrome

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



### Unique Advantage

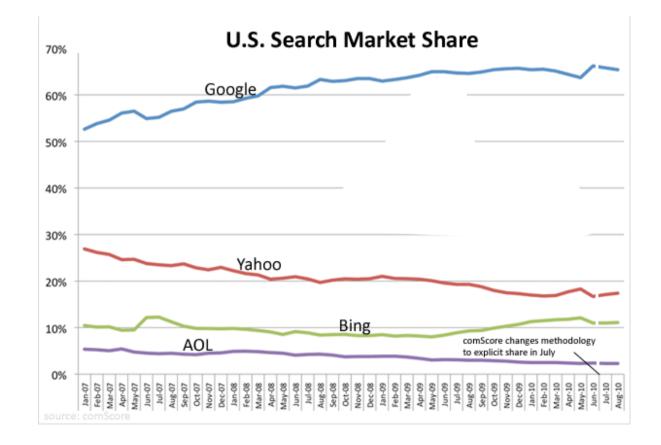
Then: AT&T vs Sprint





### Unique Advantage

Now: Google Search



### Iterate early & often

Invent. Test. Test.

Welcome to DataVisionville Pop.12

Repeat.

Test.

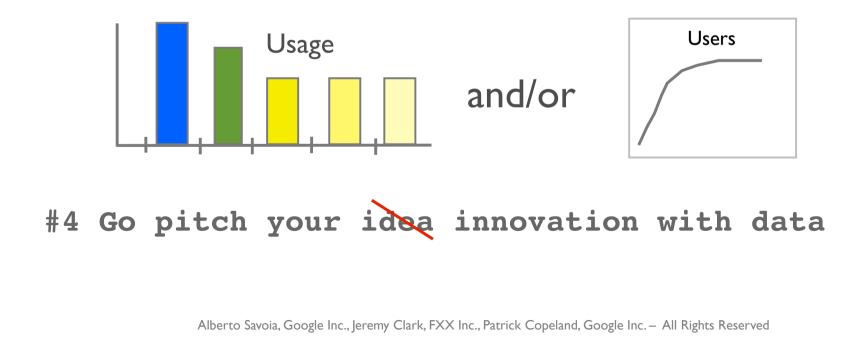
Alberto Savoia, Google Inc., Jeremy Clark, FXX Inc., Patrick Copeland, Google Inc. - All Rights Reserved

# 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

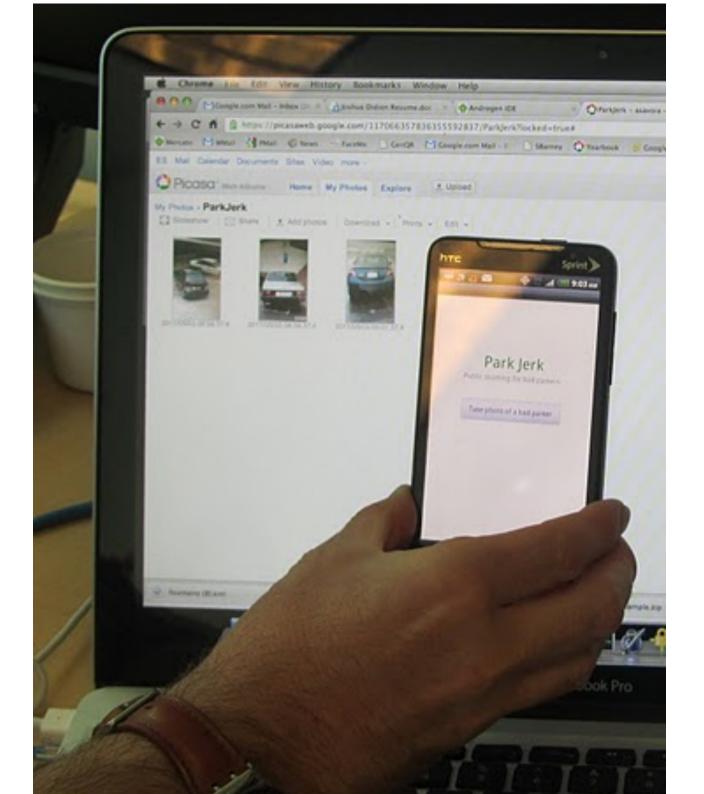






#### Androgen Pretotyping Tool for Android



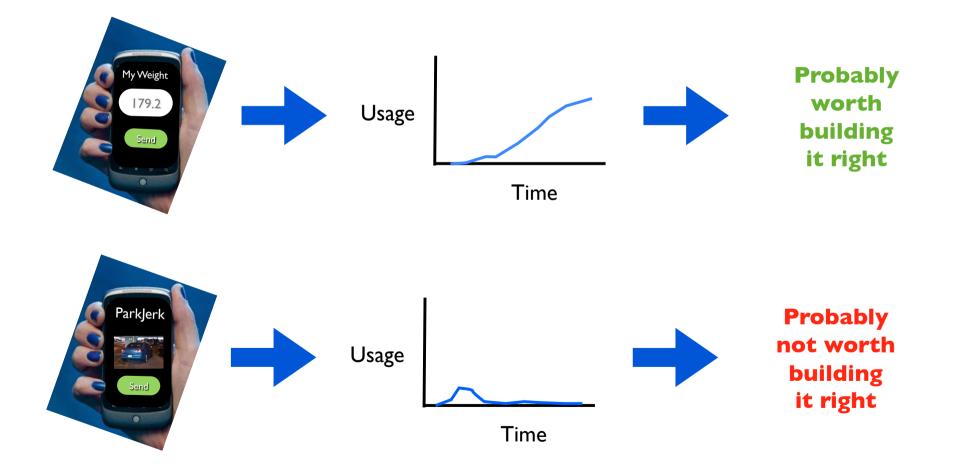


## Rapid Sharing

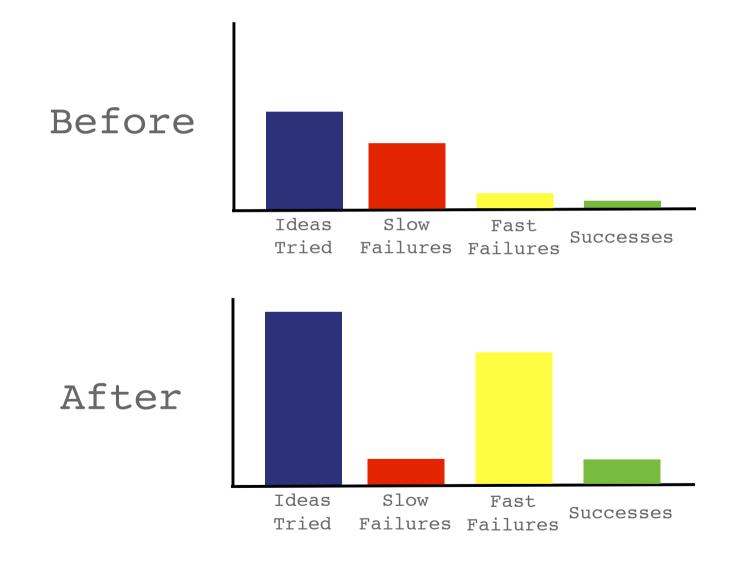




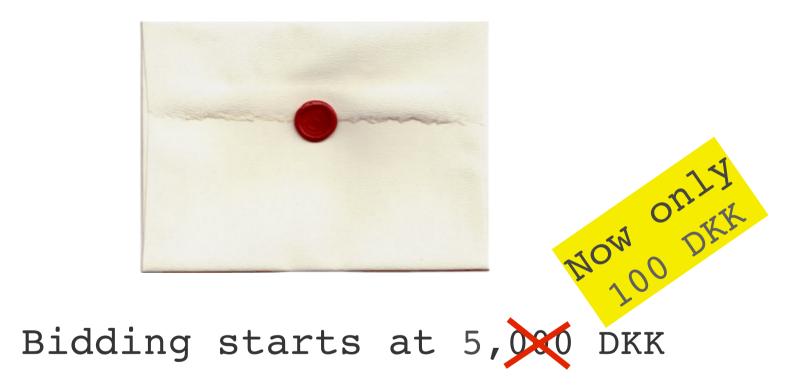
#### Rapid, real-time usage stats



### 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

