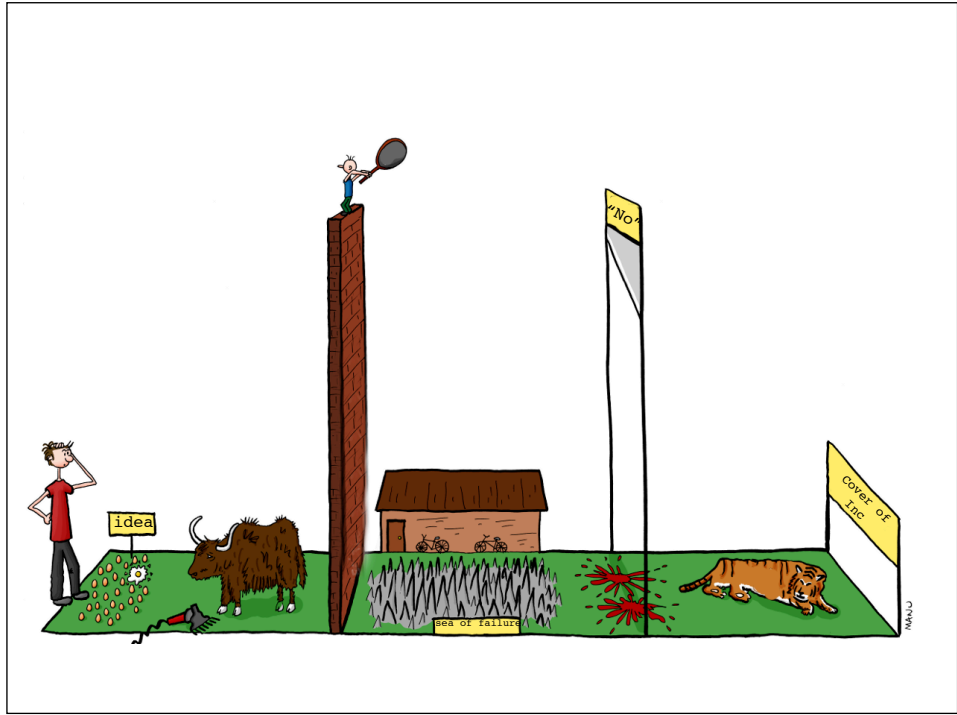


Innovation at Google

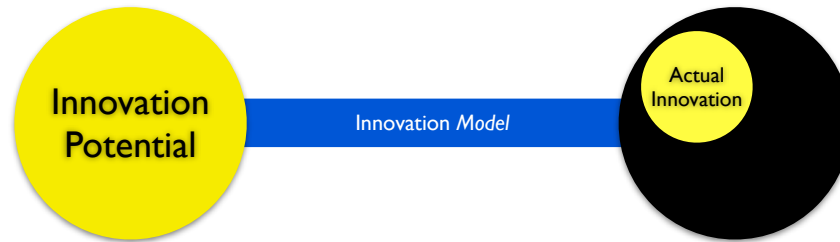
...plus a manifesto

Patrick Copeland

Google Inc.



Lost In Translation

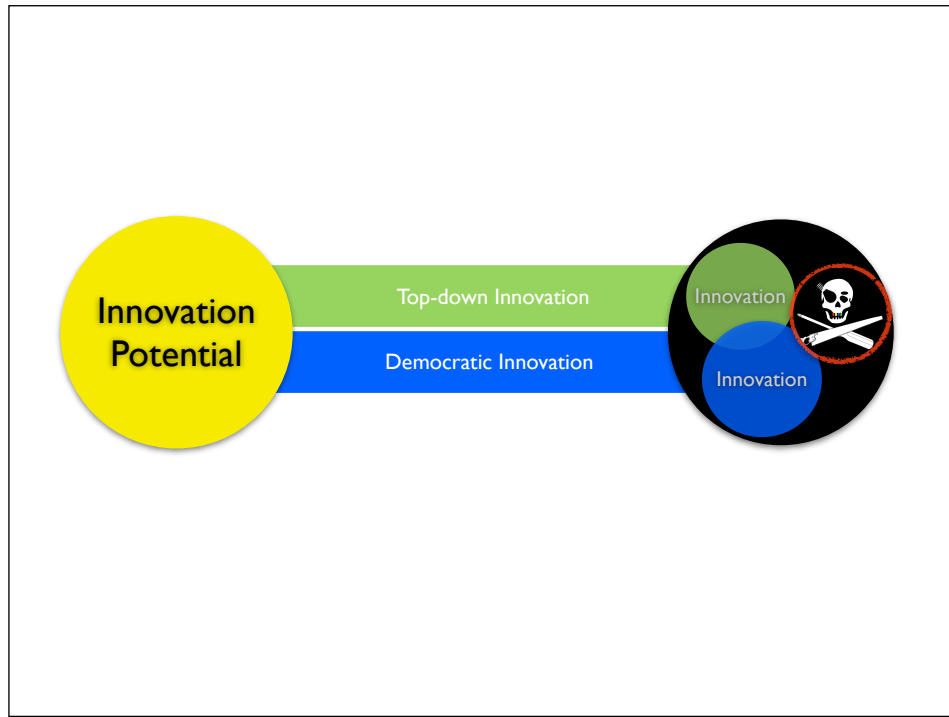


Top-down Innovation

1. Create a Research Lab
2. Hire a bunch of PhDs
3. Ideas: few, big & from the *top*
4. Close and secretive environment and results
5. Formal research proposals
6. Papers, patents, ..., products

Democratic Innovation

1. Create an innovation *culture*
2. Use *all* employees
3. Ideas: lots from everywhere
4. Open and shared environment and results
5. Informal proposals – if that
6. Prototypes, products, ..., papers



the innovation odds

X% of all new Y fail ...

... even if they are very well implemented

Build the
right 'it'

vs.

Build 'it'
right

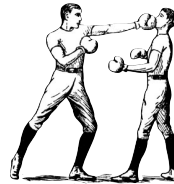
the prototyping manifesto

innovators beat ideas
prototypes beat productypes
data beats opinions
doing beats talking
simple beats complex
now beats later
commitment beats committees

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 \$B idea



Bidding starts at \$1,000

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.

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[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

[Reply To This Post](#)

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 + bulb to prevent burning

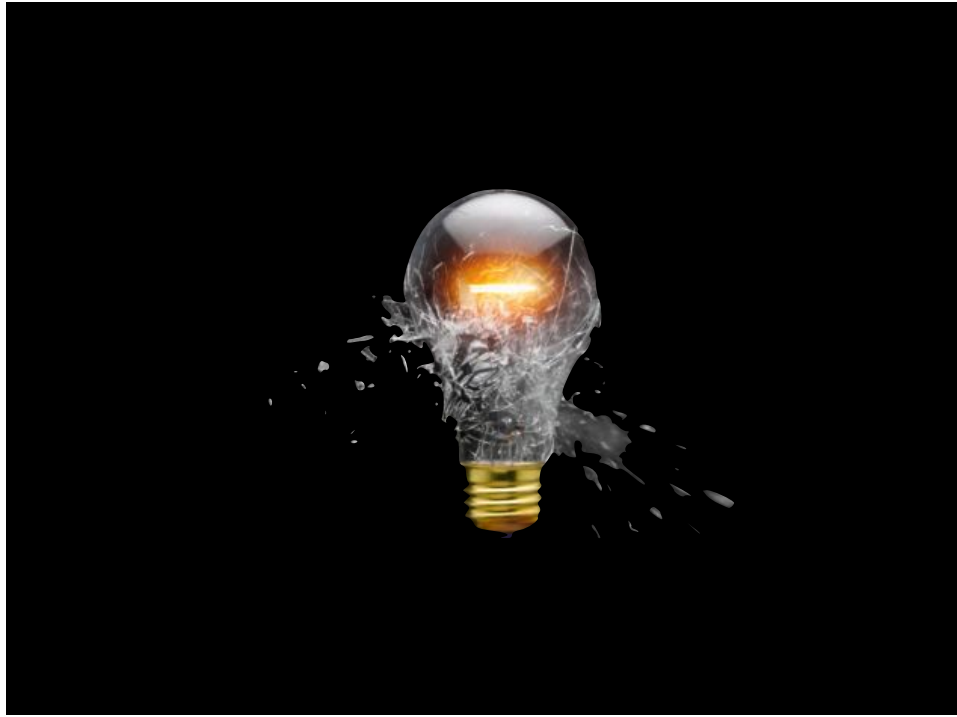


1%

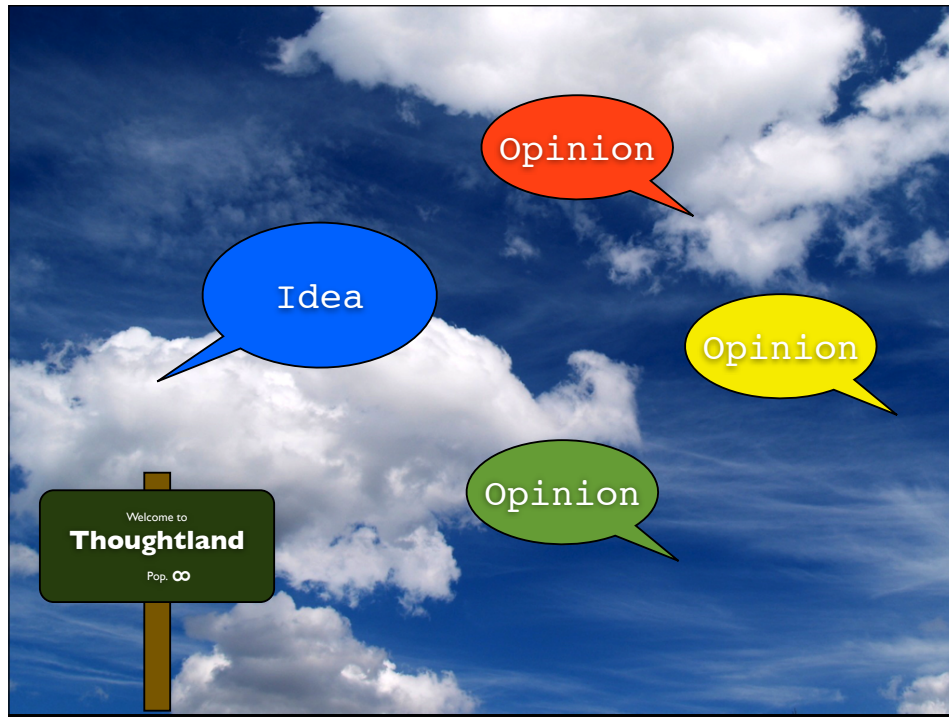


99%

$$\frac{\# \text{ of innovators}}{\# \text{ of ideas}} \cong 0$$



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



Thoughtland

Where every idea can be a winner!

False Positive



Thoughtland

Where every idea can be *loved!*

False Negative



Thoughtland

Where every idea needs to finish!

Group Think



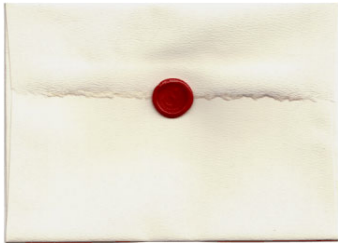


??????



SALE
50% off

Great idea from Patrick



Now only
\$499.95

Bidding starts at ~~\$1,000~~

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

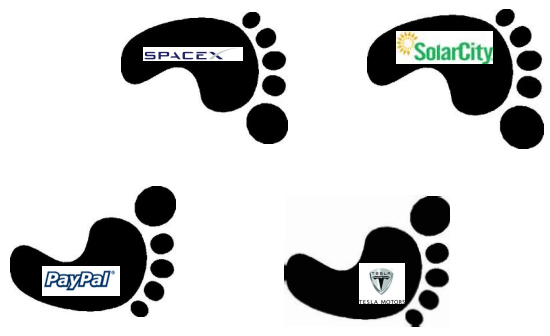
look for innovators
(Thomas Edisons).

How Do You Find Innovators?



Example from prototyping workshop

Spot the Innovator



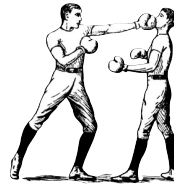
Example from "Mobile App Prototyping Workshop"

Exercise #1

Spot the Innovators



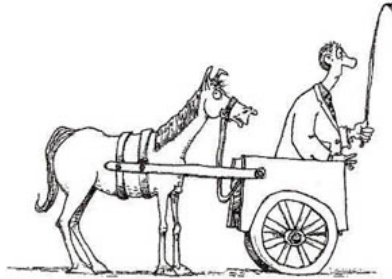
pretotypes
beat
productypes



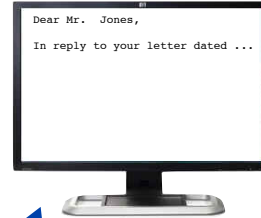
The Innovator's Nightmare

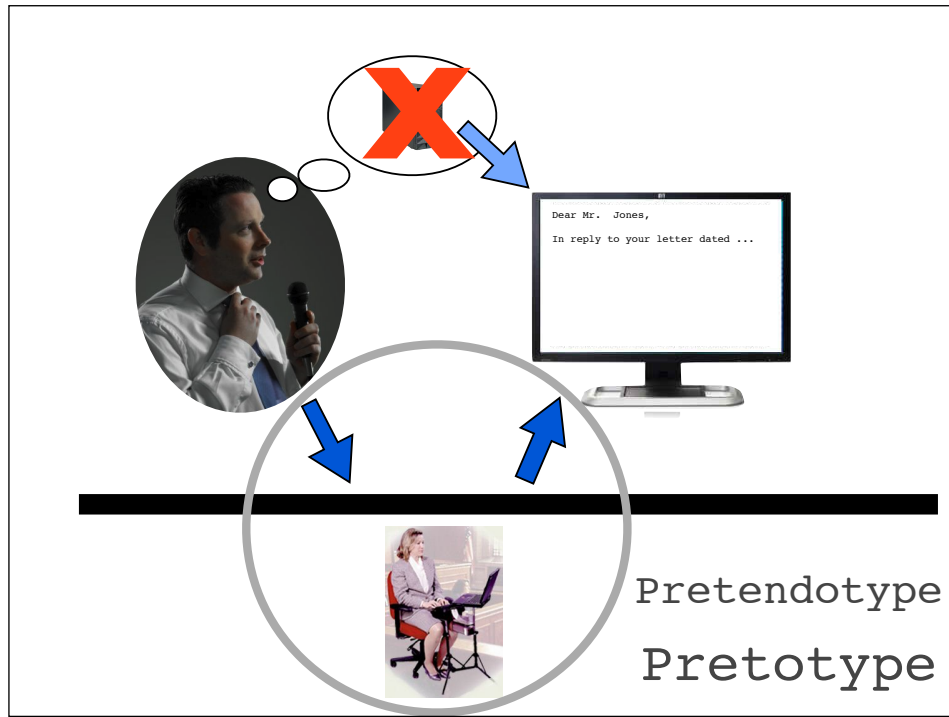
Spending years and millions,
to build and perfect
a product or service
that people don't need
or want.

**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."



Before
prototype
tests



After
prototype
tests

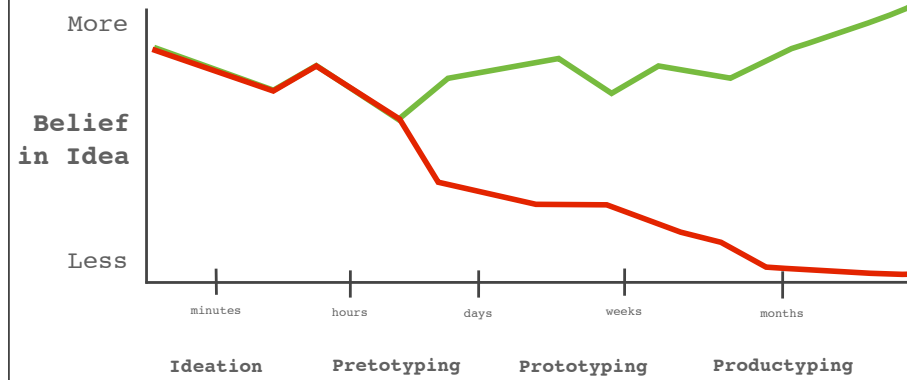
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hello

The Original Palm "Pre"



Testing Your Belief

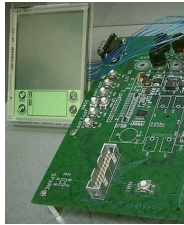


Pretotyping

Fake it before you make it

Prototyping

- **Investment:** days, weeks
- **Main Q:** Can we build it?
- **Deliverable:** Working prototype



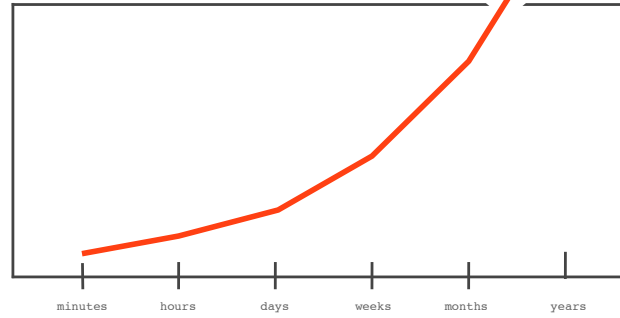
Pretotyping

- **Investment:** hours, days
- **Main Q:** Would we use it?
- **Deliverable:** [Working] pretotype



Fail Fast

Compulsion to
keep going
at all costs



Time Invested

Example from prototyping workshop

Exercise #2

Create your own
innovative Android app

paper-prototypes

5 minutes

ANDROID
PRETOTYPING
KIT V.2.1.



PARK-JERK

DATE 8/10/10

TIME 9:55 AM

LOC. 3E H 133 130 S / 130 W

CHOOSE OFFENSE

- L-1260
- 1261
- 1262

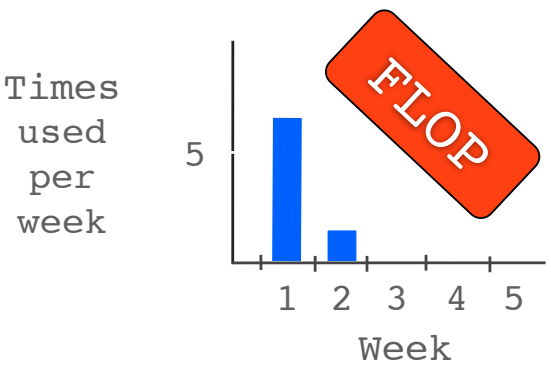
LICENSE PHOTO

N 822 04

TAKE

SUBMIT

Park-Jerk Pretotype



**"We are not retreating
– we are advancing in
another direction."**

Douglas McArthur

☺ GOOD GOOGLE DAY
☹ BAD GOOGLE DAY

I HAD A GOOD,
FUN, PRODUCTIVE DAY



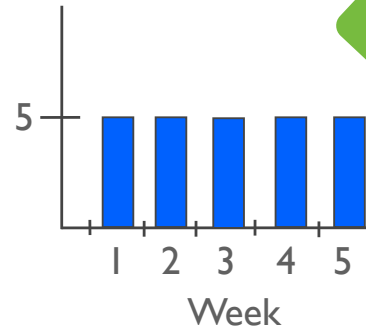
I HAD A BAD,
BORING, UNPRODUCTIVE DAY



SEND

"Good Day" Pretotype

Times
used
per
week





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

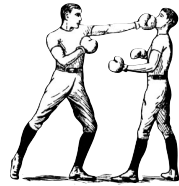
Example from prototyping workshop

Exercise #3

Create your own
innovative Android
working-prototype
using Androgen

30 minutes

data
beats
opinions



Are you on the right track?

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

Credibility

Usage data

High

Pretotype
Prototype

Med

Idea

Low

HITorFLOP

Pretotype

F.L.O.P.

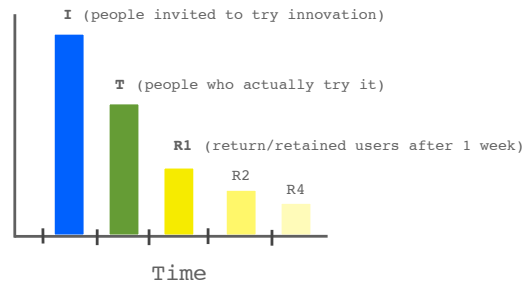
Failure in

Launch

Operations or

Premise

HIT or FLOP

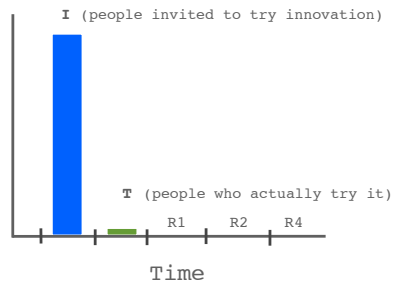


$T / I = \% \text{ of tried / invited}$

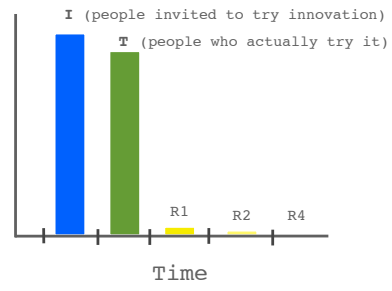
$R_n / T = \% \text{ of return user after } n \text{ weeks}$

$R_{n+1} / R_n = \% \text{ of returning users loss over time}$

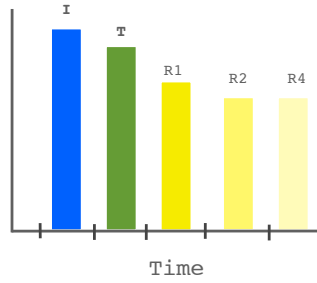
FLOP



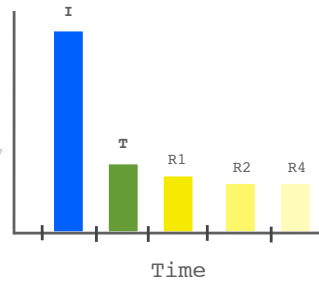
FLOP



Huge HIT



HIT



Ditch on both sides of the road

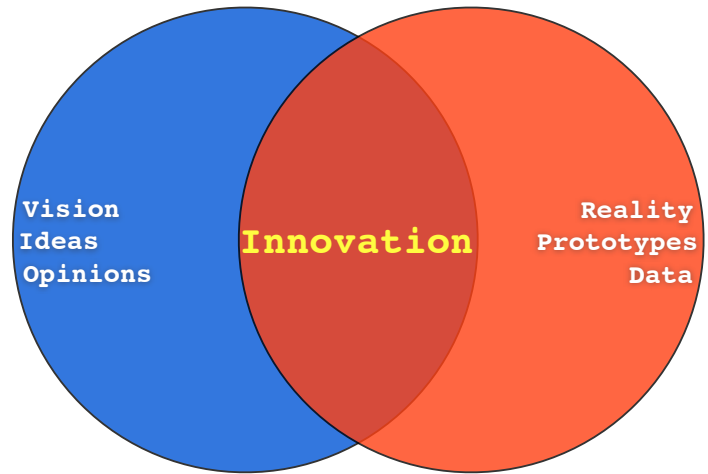
That's
dumbest/best
idea I've
ever heard



Let's test
500 shades
of blue



Vision vs. Hallucination



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

Clone Wars

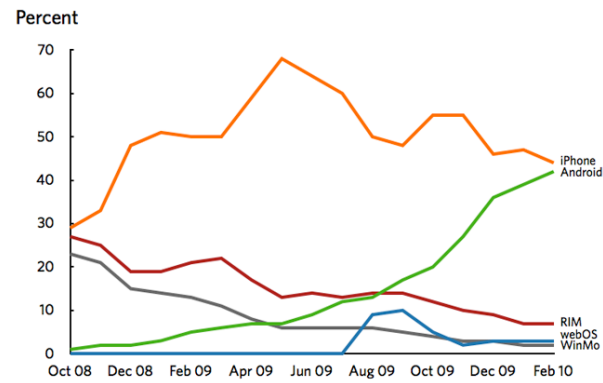
Then: Mainframe vs PC clones



Clone Wars

Now: Android

Mobile OS Traffic Share: US

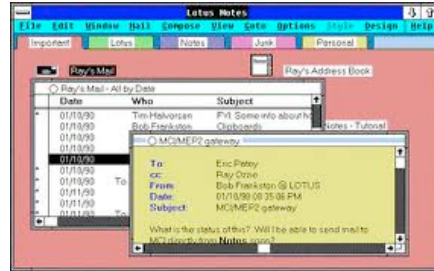


Source: Admob



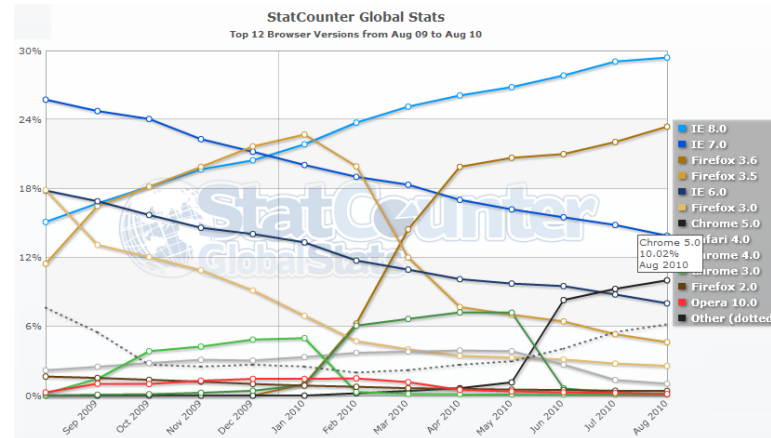
Fast Following

Then: Lotus Notes vs Office



Fast Following

Now: Chrome



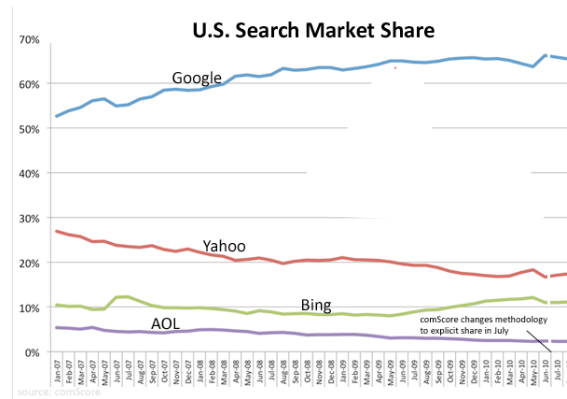
Unique Advantage

Then: AT&T vs Sprint



Unique Advantage

Now: Google Search



Iterate early & often

Invent.

Test.

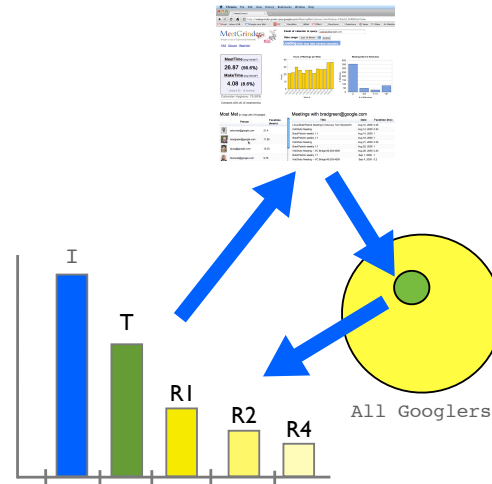
Test.

Test.

Repeat.



Run multiple experiments with small subsets of target population

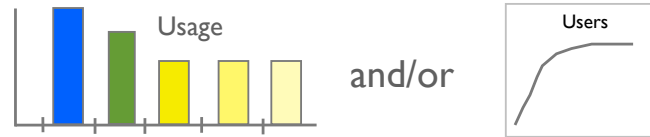


Using the Manifesto

#1 Try some Pretotypes/Experiments

#2 Develop, launch and test ideas to small group

#3 Abandon, or Repeat #2 until you see this:



#4 Go pitch your ~~idea~~ innovation with data

SALE
Last Offer

Great idea from Patrick



Now only
\$19.95

Bidding starts at ~~\$1,000~~

Patrick Copeland

copeland@google.com

pretotyping.org

make sure you are **building the right 'it'** before you build 'it' right

the prototyping manifesto

innovators beat ideas
prototypes beat productypes
data beats opinions
doing beats talking
simple beats complex
now beats later
commitment beats committees

