

Best Practices in Product Management for V1 Web Products

Dan Olsen, CEO, YourVersion



Silicon Valley Product Management Association (SVPMA)

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How the customer described it



How the product manager envisioned it



The alpha version of the product



The beta version of the product



What marketing advertised



What was ready by the original launch date



What the press had to say about it



What the customer really wanted

What I'm Covering

- What is product management?
- Understanding customer needs
- Prioritization and maximizing ROI on engineering resources
- Validating your product concept
- UI design
- User feedback / usability testing

Will post slides to slideshare.net/dan o

My Background

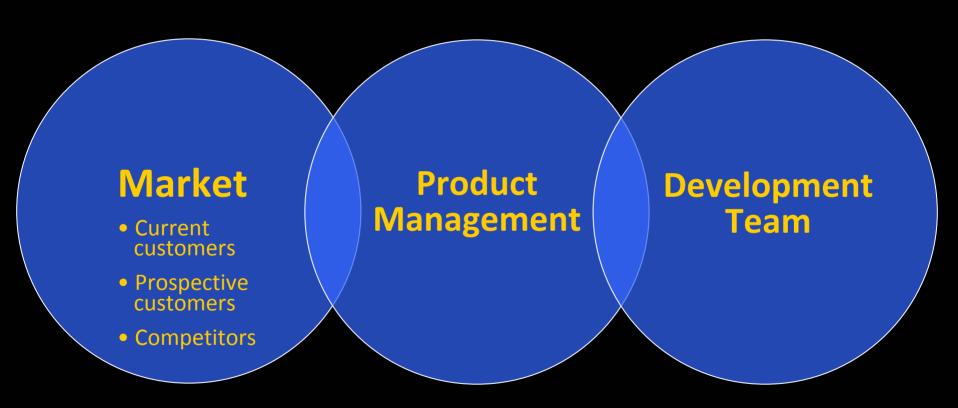
- Education
 - BS, Electrical Engineering, Northwestern
 - MS, Industrial Engineering, Virginia Tech
 - MBA, Stanford
 - Web development and UI design
- 19 years of Product Management Experience
 - Managed submarine design for 5 years
 - 5 years at Intuit, led Quicken Product Management
 - Led Product Management at Friendster
 - PM consultant to startups: Box.net, YouSendIt, Epocrates
 - CEO & Cofounder of YourVersion, startup building "Pandora for your real-time web content"

Quick Poll of Audience

- Job function
 - Product Management
 - Marketing
 - Other business role
 - Designer
 - Technical (Developer, QA, Ops)
- Company size
 - Small < 50 people</p>
 - Mid-size 50 500 people
 - Large > 500 people
- Consumer vs. B2B

What is Product Management?

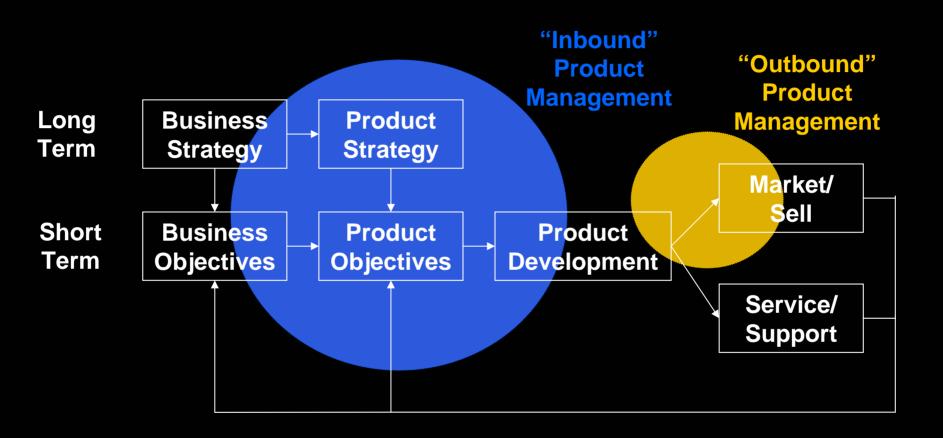
Product Management is Critical Link in Value Creation



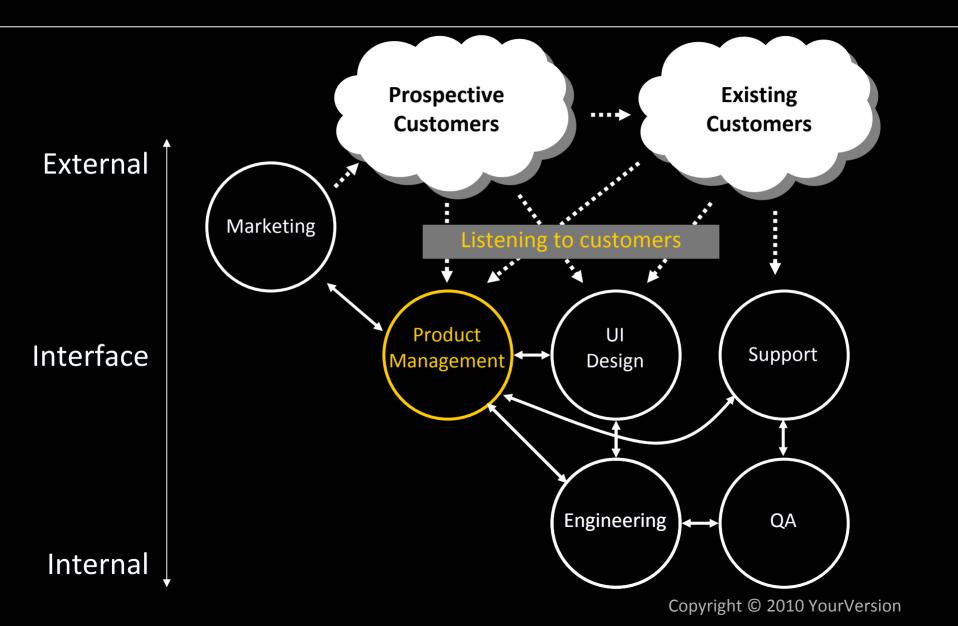
A Product Manager by any Other Name Would Smell as Sweet

- Product managers are sometimes called
 - Product marketing manager
 - Program manager
 - Project manager
- Label and definition of role can vary
 - Based on industry or company
 - Based on B2C (consumer) vs. B2B (enterprise)
 - Based on stage of company
- Can be area of responsibility vs. actual position

A Process View of Product Management



Overlap in PM and UI Design Roles



The Product Manager's Job: A Successful Product

- Be the expert on the market and the customer
- Translate business objectives and customer needs into product requirements
- Be the clearinghouse for all product ideas
- Work with team to design & build great product
- Define and track key metrics
- Identify, plan & prioritize product ideas to maximize ROI on engineering resources

Understanding Customer Needs

For a V1 Product, Which is More Important?



or



Qualitative Information?

Quantitative Information?

"When you're Small, start with Qual!"

How is developing a v1 Product Different from developing a Later Stage Product?

- With a v1 stage product, you have WAY MORE uncertainty about:
 - Who your target customers really are
 - Which customer needs you should address
 - How to best meet those needs
 - What product design works best
- These are qualitative learnings/decisions
- Quantitative is also valuable (later)

What's the Formula for Product-Market Fit?

- A product that:
 - Meets customers' needs
 - Is better than other alternatives
 - Is easy to use
 - Has a good value/price
- Simple, right?
- It's easy to understand conceptually what we want to achieve
- HOW to achieve it is the hard part

Problem Space vs. Solution Space

- Problem Space
 - A customer problem,need, or benefit that theproduct should address
 - A product requirement

Example:

Ability to write in space (zero gravity)

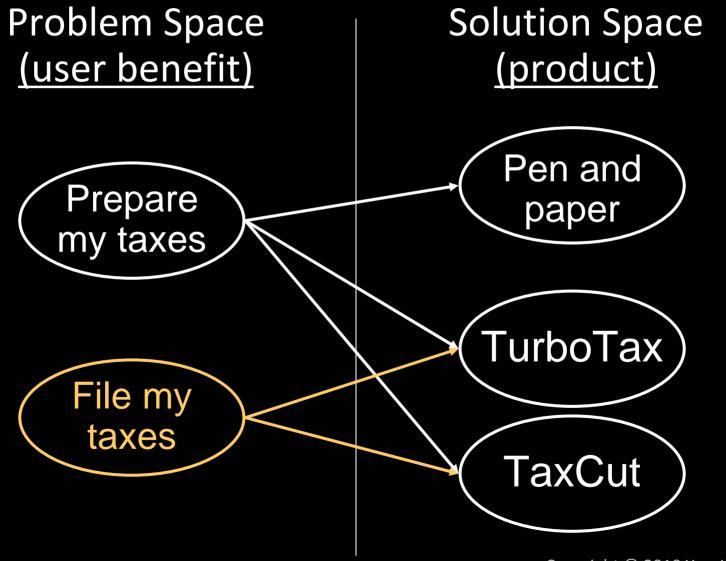
- Solution Space
 - A specific implementation to address the need or product requirement



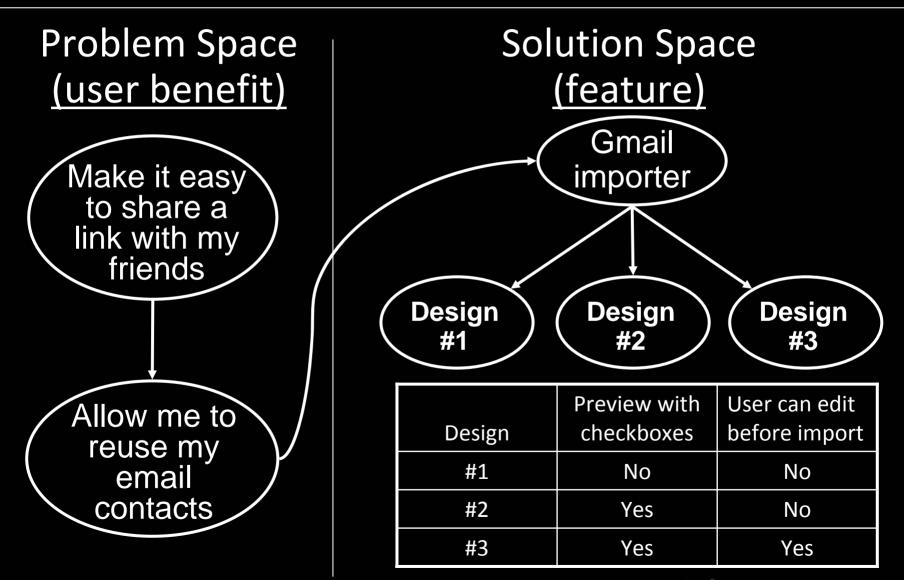
- NASA: space pen (\$1 M R&D cost)
- Russians: pencil



Problem Space vs. Solution Space <u>Product Level</u>



Problem Space vs. Solution Space Feature Level



How Do You Prioritize User Benefits and Product Features?

- Need a framework for prioritization
 - Which user benefits should you address?
 - Which product features to build (or improve)?
- Importance vs. Satisfaction
 - Importance of user need (problem space)
 - Satisfaction with how well a product meets the user's need (solution space)
- Opportunity =High Importance need with low Satisfaction

High Importance + Low Satisfaction = Opportunity



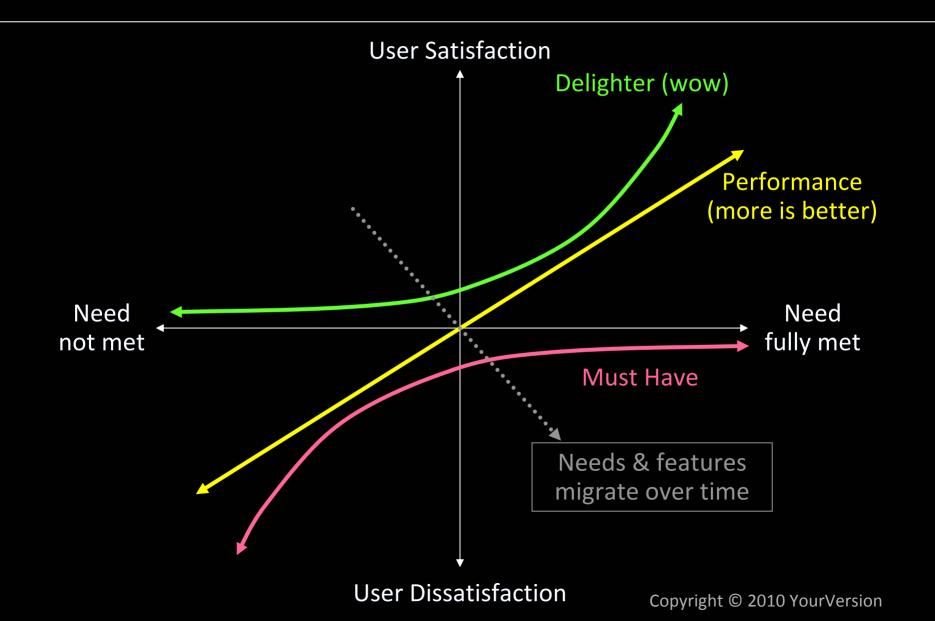
User Satisfaction with Current Alternatives

Importance vs. Satisfaction <u>Ask Users to Rate for Each</u> Feature

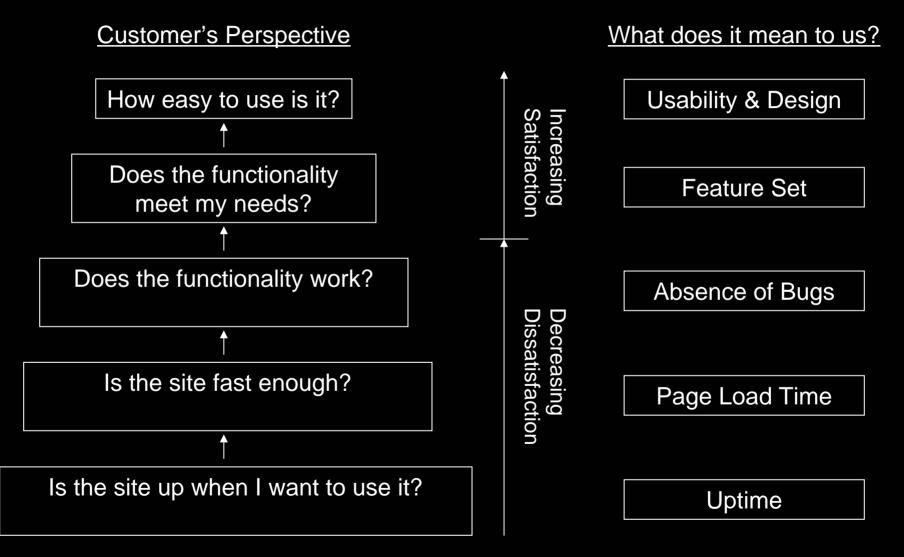


Recommended reading: "What Customers Want" by Anthony Ulwick

Kano Model: User Needs & Satisfaction



Olsen's Hierarchy of Web User Needs (adapted from Maslow)



What is Your Value Proposition?

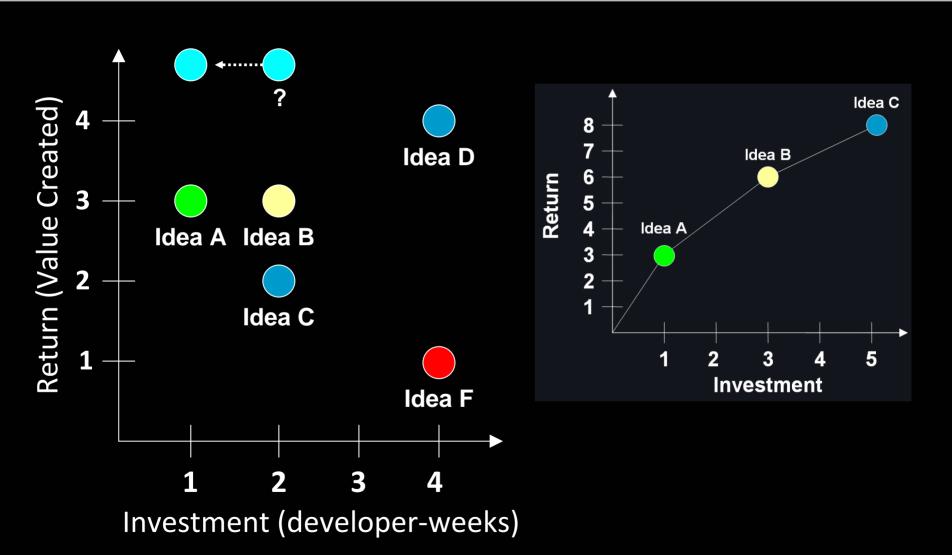
- Which user benefits are you providing?
- How are you better than competitors?

	Competitor A	Competitor B	You
Must Have Benefit 1	Υ	Υ	Υ
Performance Benefit 1	High	Low	Med
Performance Benefit 2	Low	High	Low
Performance Benefit 3	Med	Med	High
Delighter Benefit 1	Υ	-	-
Delighter Benefit 2	-	-	Y

Prioritization and Scope

- Customer value is only half the equation
- How much engineering effort will it take?
- Need to consider value and effort (ROI)
- Ruthlessly prioritize: rank order
- Be deliberate about scope & keep it small
 - It's easy to try to do too much
 - Strategy = deciding what you're NOT doing
 - Break features down into smaller chunks
 - Smaller scope → faster iterations → better

Prioritizing Product Ideas by ROI

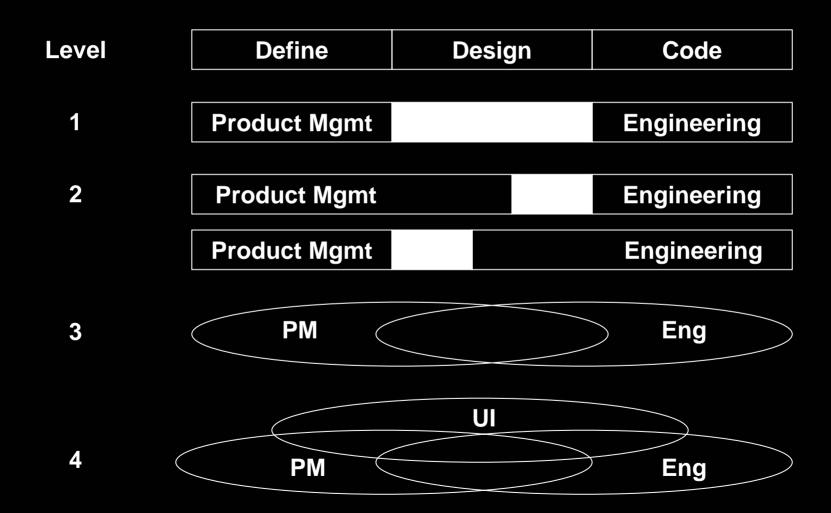


UI Design and Ease of Use

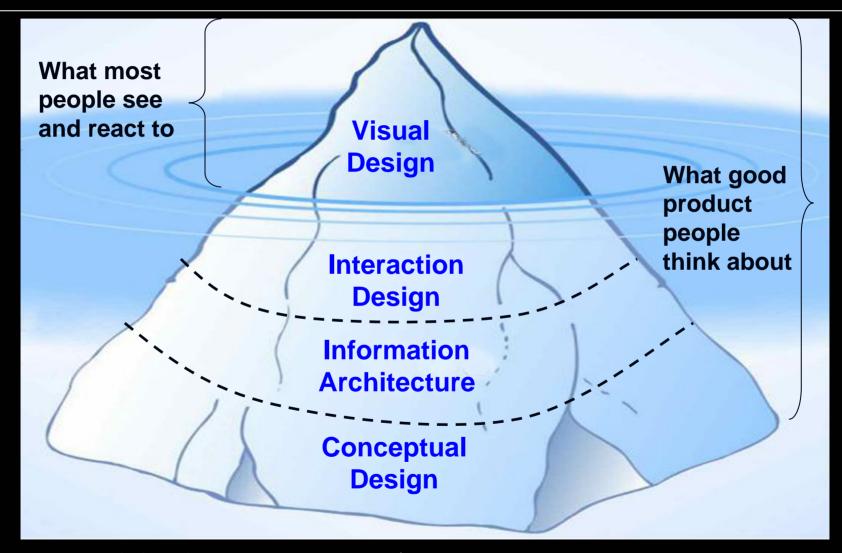
User Benefits vs. Ease of Use

- Q: If two products equally deliver the exact same user benefits, which product is better?
- A: The product that's easier to use
- "Ease of use" provides benefits
 - Saves time
 - Reduces cognitive load
 - Reduces frustration
- UI Design can be differentiator
- Olsen's Law: "The less user effort required, the higher the percentage of users who will do it"

The Design Gap in Many Teams



The UI Design Iceberg



Elements of User Interface Design

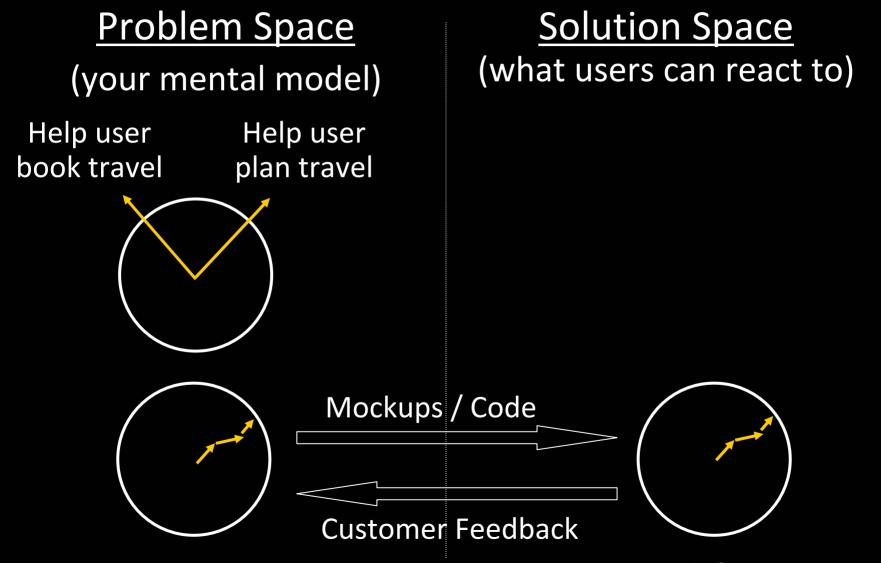
Consists of Three Distinct Elements:

- Information Architecture
 - Structure and layout at both site and page level
 - How site is structured (sitemap)
 - How site information is organized (site layout)
 - How each page is organized (page layout)
- Interaction Design
 - How user and product interact with one another
 - User flows (e.g., navigation across multiple pages)
 - User input (e.g., controls and form design)
- Visual Design
 - "How it looks" vs. "What it is", often called "chrome"
 - Fonts, colors, graphical elements

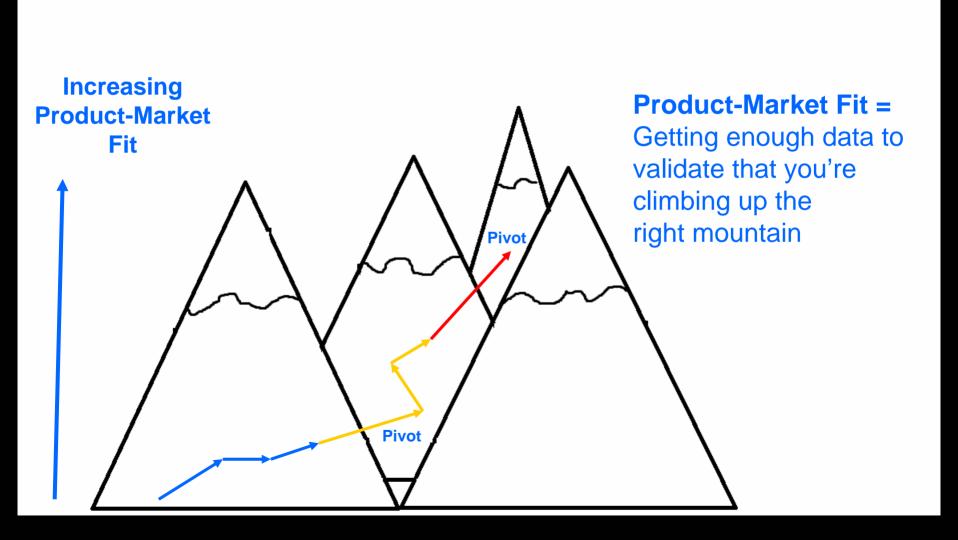
Learning from Customer Feedback

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Iterating Your Product Vector Based on User Feedback in Solution Space



Persevere or Pivot?

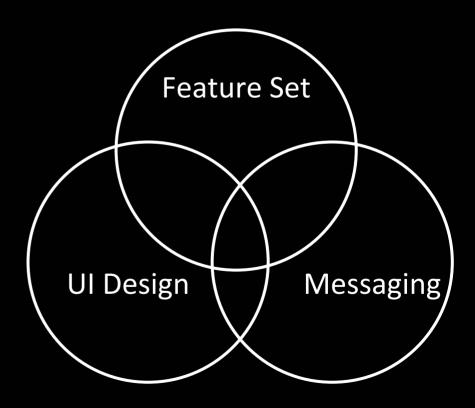


What Are You Getting Feedback & Learnings About?

<u>Problem Space</u> (your mental model)

Customer
Understanding
(needs &
preferences)

Solution Space (what users can react to)



What Can Solution Space Objects Can You Test with Customers?

- Range of solution space options:
 - Wireframe: low-fidelity graphics
 - Mockup: high-fidelity graphics
 - Prototype: interactive graphics or code
 - Alpha product: production code
- Graphics usually quicker/cheaper to change than code
- Goal is to gain learnings quickly

The Value of User Feedback Sessions

- Critical to talk with customers 1-on-1
- Gain better understanding of
 - Customer needs and problems
 - Issues with your feature set, UI, messaging
 - What alternatives customers are using, pros & cons of each, customer preferences
 - QA: use cases & bugs you haven't seen
- Really a "user learning" session
- Make test as real for user as possible

"Ramen" User Feedback for Startups

- Anyone can do it!
- Ingredients:
 - Solution-space product/mockup to test
 - 1 customer (with laptop if testing code)
 - 1 desk
 - 1 person to conduct the session
 - Pen and paper
 - Optional note-taker and observers

Typical Format for Customer Session

- 5 10 min: Ask questions to understand user needs and solutions they currently use
- 30 50 min: User feedback
 - Show user product/mockup
 - Non-directed as much as possible
 - When necessary, direct user to attempt to perform a specific task
- 5 10 min: Wrap-up
 - Answer any user questions that came up
 - Point out/explain features you want to highlight
 - Ask them if they would use the product

Dos & Don'ts of Conducting Usability

Do

- Explain to the user:
 - Their usability test will help improve the product
 - Not to worry about hurting your feelings
 - "Think Aloud Protocol"
- Ask user to attempt the task, then be a fly on the wall
- Ask non-leading, open-ended questions
- Take notes and review them afterwards for take-aways

Don't

- Ask leading questions
- "Help" the user or explain the UI (e.g., "click over here")
- Respond to user frustration or questions (until test is over)
- Get defensive
- Blame the user

Case Study on Product-Market Fit: MarketingReport.com

Product-Market Fit Case Study: MarketingReport.com

- My consulting client, CEO of TrustedID, had an idea for a new product
- Team: me, CEO, head of marketing,UI design consultant
- Goal:
 - Validate product-market fit quickly, cheaply without writing a single line of code
 - Determine if their was a business opportunity here

Product-Market Fit Case Study: Developing Product Concept

- Product Concept was "marketing report" that let consumers control the direct mail that they receive
- Concept was fuzzy with various components, so we broke it into 2 different "flavors":
 - #1 "Marketing Shield": Service to reduce/stop junk mail
 - #2 "Marketing Saver": Opt in & receive money-saving offers
 - Each product concept consisted of several modules that each mapped to a specific user benefit
- Worked with UI designer to create paper mockups of pages for each flavor concept (5 pages each)



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Marketing Report

Marketing Profile



Home Sweet Home

Home Sweet Home - Occupying the nation's suburbs, the residents of Home Sweet Home tend to be upper-middle-class married couples living in mid-sized homes with few children. Most are in their 40s and 50s, own their home, have gone to college, and hold professional jobs. With their upscale incomes and small families, these folks have fashioned comfortable lifestyles, filling their homes with toys, TV sets and pets.

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755 Out of 900

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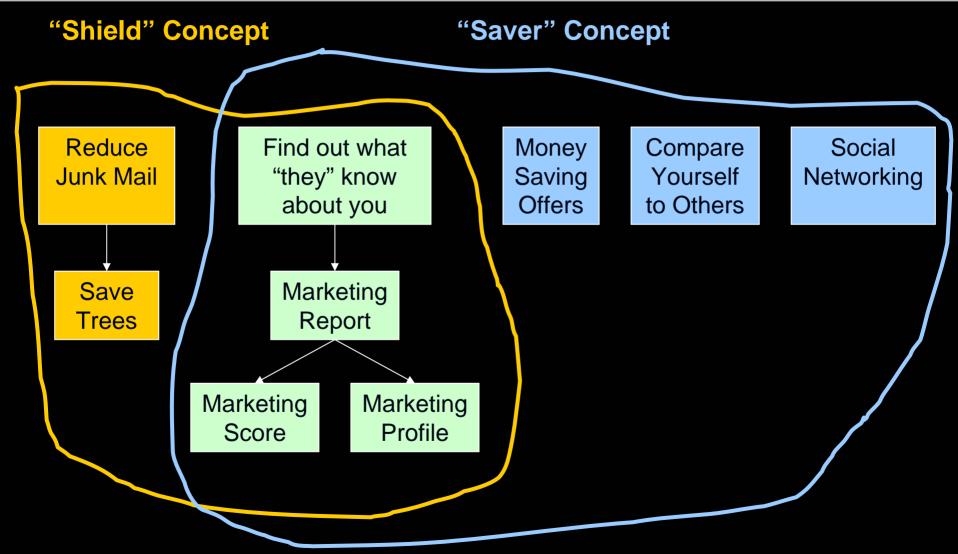








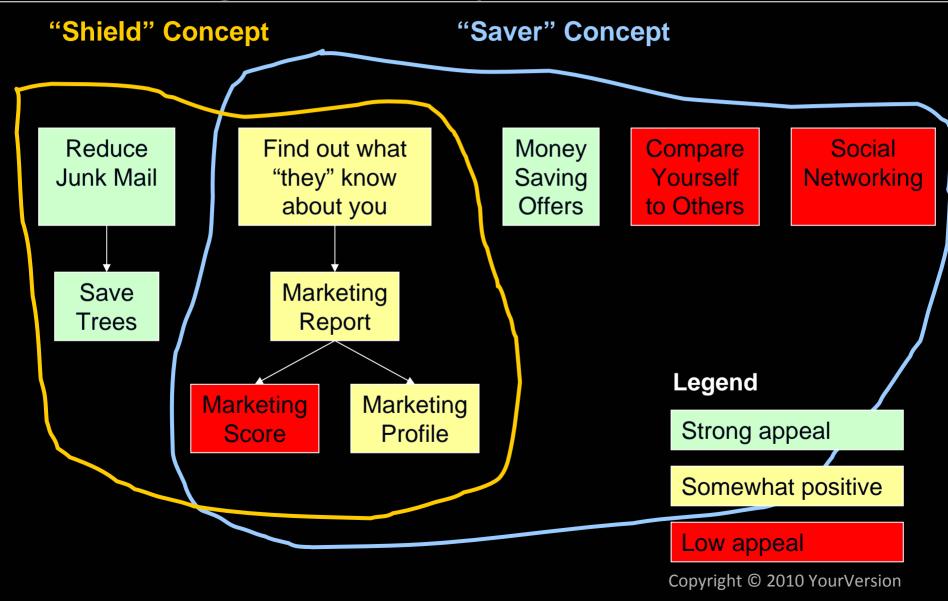
Clustering Potential User Benefits to Create Product Concepts



Product-Market Fit Case Study: Recruiting People

- Telephone recruit of prospective customers
 - Wrote phone-screen questionnaire to create rough target customer segmentation
 - Wanted users who work full-time & use internet
 - Fit for opt-in concept: use coupons, Costco membership
 - Fit for anti-junk mail concept: use paper shredder, block caller ID
- Scheduled 3 groups of 2 or 3 people to discuss each product concept for 90 minutes
- Moderated each group through the paper mockups to hear their feedback

Product-Market Fit Case Study: Findings on Concepts & User Benefits



Product-Market Fit Case Study: Learnings from Research

- Learned that "Shield" (anti-junk mail) concept was stronger than "Saver"
- People didn't like many of the "Saver" concept components
- Learned users' concerns / questions about "Shield" concept
- Refined "Shield" concept:
 - Removed irrelevant components
 - Improved messaging to address user concerns / questions
- Validated revised "Shield" concept with quick 2nd round of tests
 - No customer concerns
 - Clear willingness to pay

Home

My Account

Resources

About Us



Junk mail causes identity theft. We stop it.

Tired of shredding those credit cards you never asked for, checks you never ordered and refinance offers that look too good to be true? Why not cut the junk mail off at the source. With JunkmailFreeze, a free service from the people at Trusted ID, that's exactly what you can do. <u>Learn More</u>

- ✓ Reduce the risk of identity theft
- ✓ Stop the junk mail ID thieves want
- ✓ Spend less time shredding mail
- ✓ Help the environment. Save 43 trees!
- ✓ 100% free service



Pick categories Register Stop junk mail In less than 3 minutes, you can stop your junk mail







Product-Market Fit Case Study: Summary

- 4 weeks from 1st meeting to validated product concept
- Cost \$1,500 to talk with 20 users (\$75 each)
- 1 round of iteration on product concept
- Identified compelling concept that users are willing to pay \$10/month for
- Trimmed away non-valuable pieces
- You can achieve similar results

Getting Quantitative: Optimization Using Metrics

Approaching Your Business as an Optimization Exercise

Given reality as it exists today, optimize our business results subject to our resource constraints.

Define the Equation of your Business "Peeling the Onion"

Advertising Business Model:



Equation of your Business Subscription Business Model

```
Profit = Revenue - Cost

Paying Users x Revenue per Paying User

New Paying Users + Repeat Paying Users

Trial Users x Conv Rate Previous Paying Users x (1 – Cancellation Rate)

(SEO Visitors + SEM Visitors + Viral Visitors) x Trial Conversion Rate
```

How to Track Your Metrics

Track each metric as daily time series

Date	Unique Visitors	Page views	Ad Revenue	New User Sign-ups	
4/24/08	10,100	29,600	25	490	
4/25/08	10,500	27,100	24	480	

Create ratios from primary metrics: X / Y

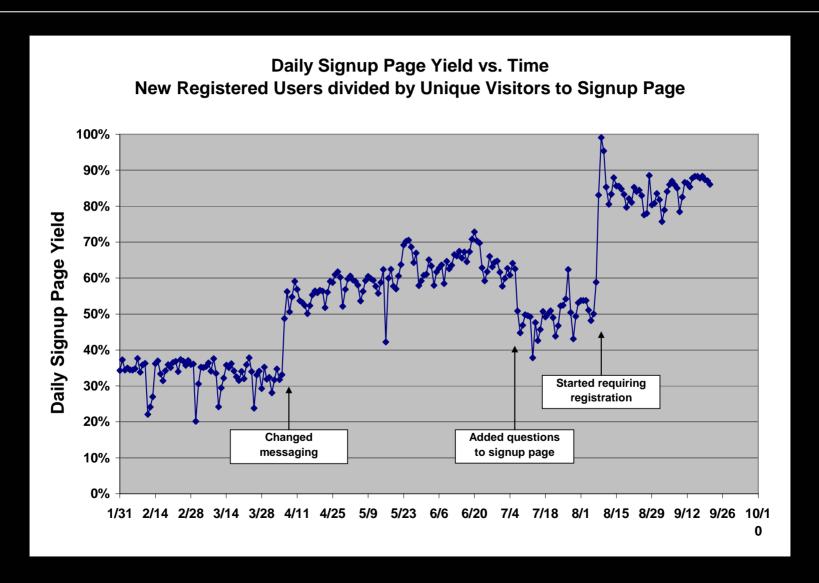
Example: How good is your registration page?

Okay: # of registered users per day

Better: registration conversion rate =

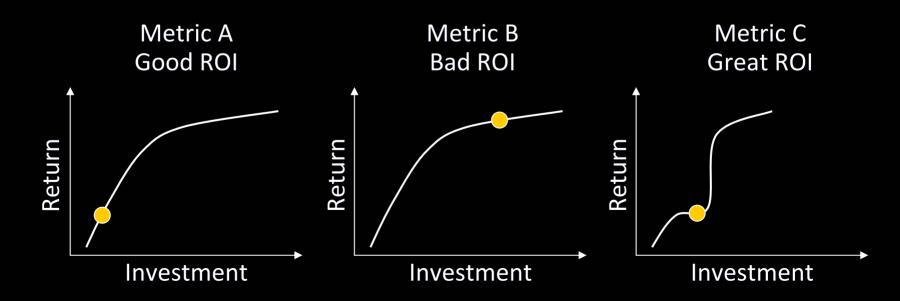
registered users / # uniques to reg page

Sample Signup Page Yield Data



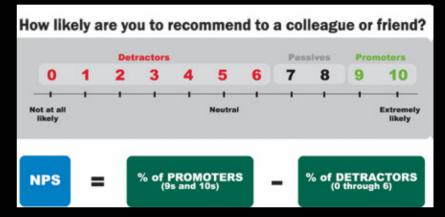
Identifying the "Critical Few" Metrics

- What are the metrics for your business?
- Where is current value for each metric?
- How many resources to "move" each metric?
 - Developer-hours, time, money
- Which metrics have highest ROI opportunities?



Metrics to Validate Product-Market Fit

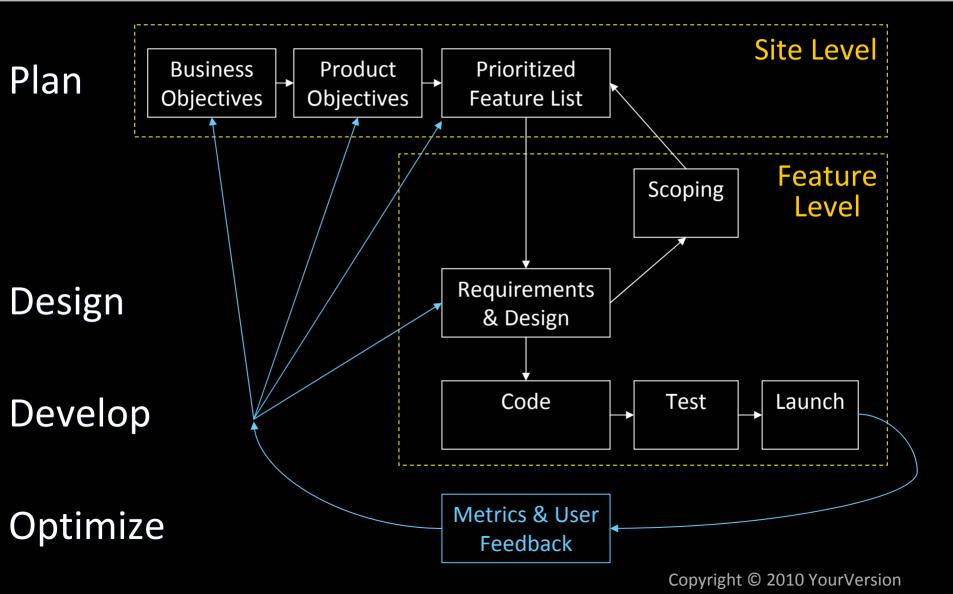
- Survey results
 - Importance & Satisfaction
 - Net Promoter Score



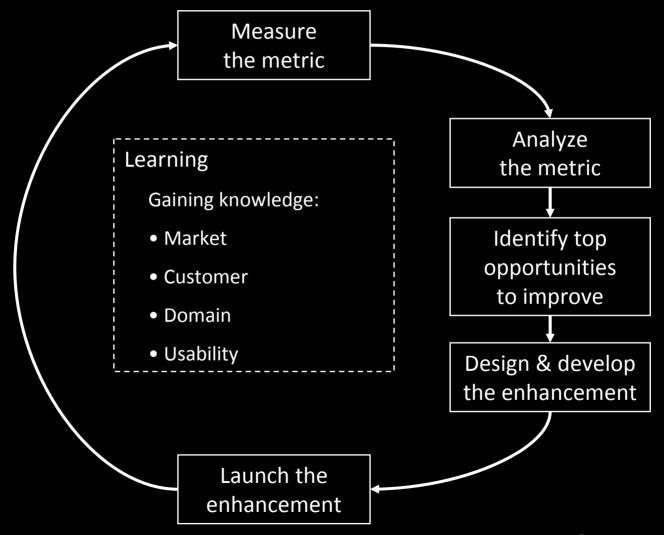
- Survey.io
 - "How would you feel if you could no longer use Product X?"
 - Very disappointed, Somewhat disappointed, Not disappointed
- User behavior
 - Prospects sign up (high conversion rate)
 - They keep using it (high retention rate)
 - They use it often (high frequency of use)

Continuous Improvement

Adding Metrics and Optimization to your Product Process



Optimization through Iteration: Continuous Improvement



Product Management for V1 Products Cheat Sheet

- Clarify problem space by iterating in the solution space & getting user feedback
- Revise feature set, UI design, and messaging to improve product-market fit
- Ruthlessly prioritize based on ROI
- Define equation of your business
- Identify and track key metrics
- Launch, learn, and iterate



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- -"Pandora for your real-time web content"
- -Aggregates latest news, blogs, twitter, etc. tailored to your specific interests
- -Free iPhone App, browser tools



toolbox.eventbrite.com

-Intimate, all-day workshop on Product Management, Design, & Marketing

- -Sat June 12th in Palo Alto
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Questions? @danolsen



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