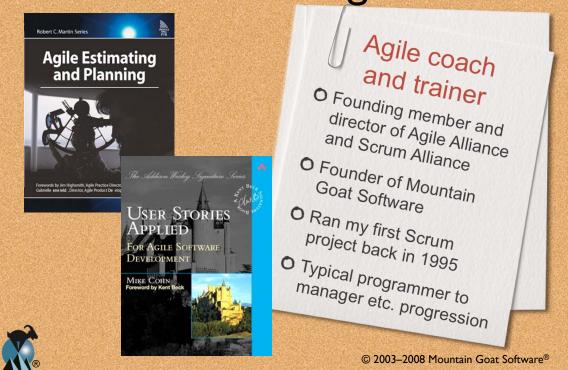
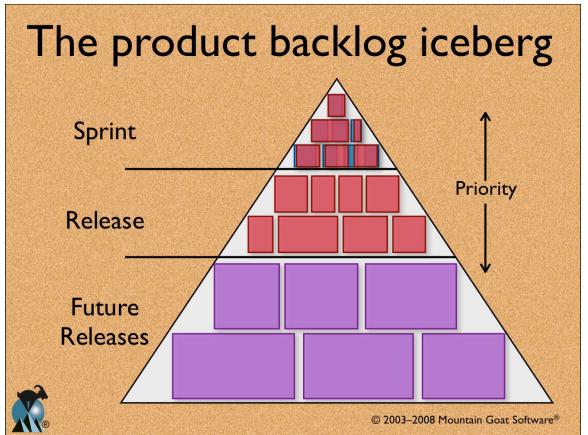
Prioritizing Your Product Backlog

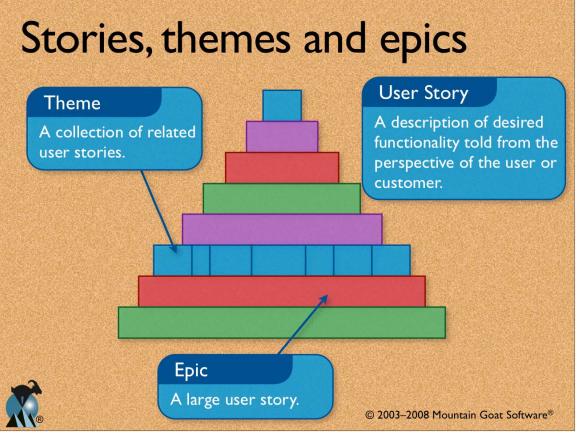
Mike Cohn August 6, 2008

Mike Cohn - background









An example

As a VP Marketing, I want to review the performance of historical promotional campaigns so that I can identify and repeat profitable ones.

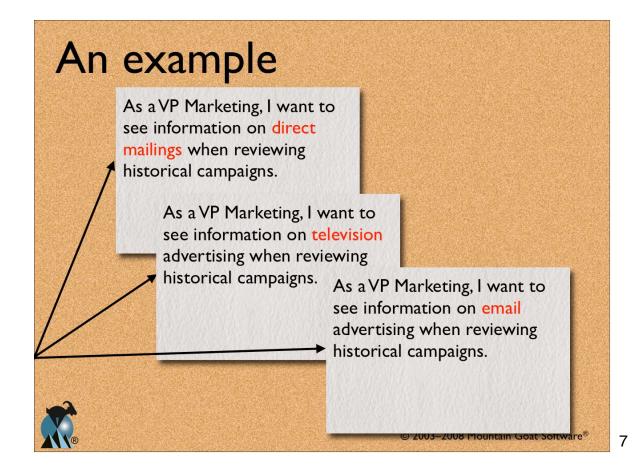
Clearly an epic

As a VP Marketing, I want to select the timeframe to use when reviewing the performance of past promotional campaigns, so that I can identify and repeat profitable ones.

Epics??

As a VP Marketing, I can select which type of campaigns (direct mail, TV, email, radio, etc.) to include when reviewing the performance of historical promotional campaigns.



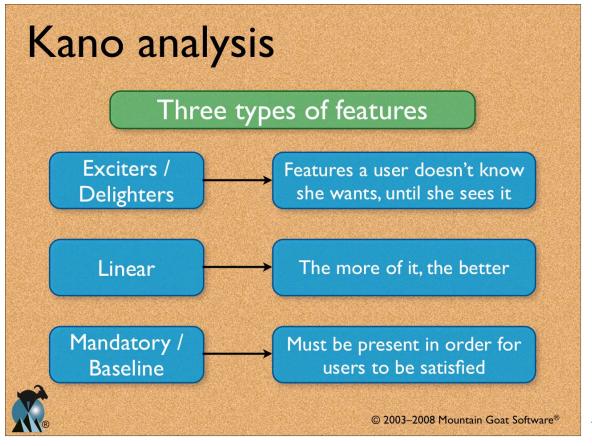


Prioritize at the theme level

- Why?
- Often individual stories cannot be prioritized against each other
 - What's more important in a word processor?
 - The A key or the E key?
 - Tables or undo?
 - What's more important on a car?
 - The left front wheel or the right front wheel?
 - Increased leg room or a larger engine?



| hoosing you | r appro | bach |
|--------------------|-------------------|-------------------|
| | Expert Opinion | User Interview |
| Kano analysis | ~ | ~ |
| Theme screening | ~ | |
| Theme scoring | ~ | |
| Relative weighting | ~ | |

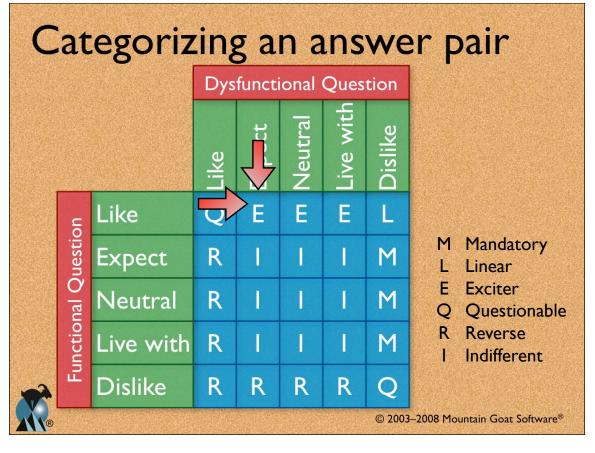


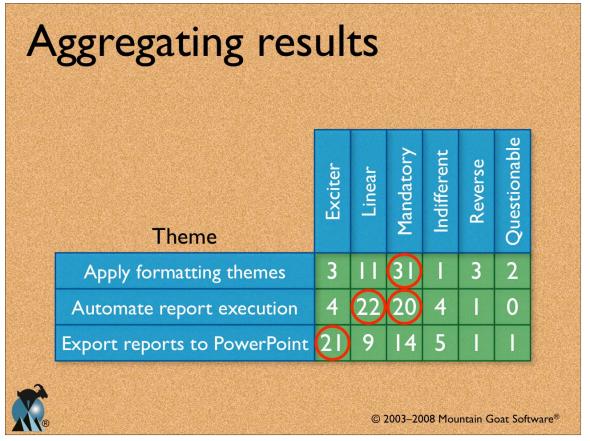
Surveying users

- To assess whether a feature is baseline, linear, or exciting we can:
 - Sometimes guess
 - Or survey a small set of users (20-30)
- We ask two questions
 - A functional question
 - How do you feel if a feature is present?
 - And a dysfunctional question
 - How do you feel if that feature is absent?









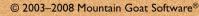
What to include

- All of the baseline features
 - By definition, these must be present
- Some amount of linear features
- But leaving room for at least a few exciters



Theme screening

- Identify 5-9 (approximately) selection criteria for what is important in the next release
- Select a baseline theme
 - Likely to be included in the next release
 - Understood by most team members
- Assess each candidate theme relative to the baseline theme

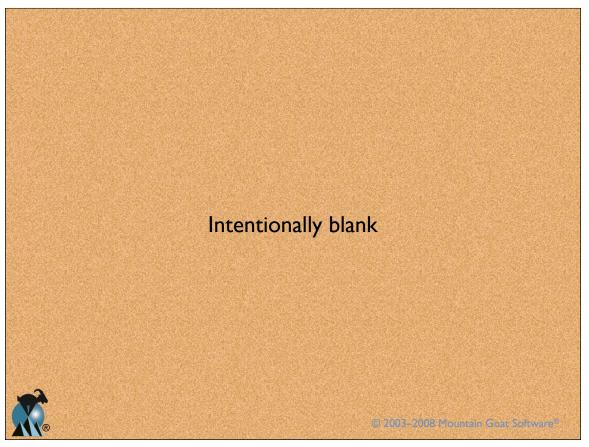


| heme scr | eening | a | n e | ex | an | np | le | | |
|------------------------------------|---------------|---------|---------|---------|-----------------------|---------|---------|----------|------|
| | | | | Т | hem | es | | | |
| Selection Crite | ria | Theme A | Theme B | Theme C | Baseline Theme | Theme E | Theme F | Theme G | |
| Importance to existi | ng customers | + | + | - | 0 | - | + | 0 | |
| Competitiveness wit | h ABC Corp. | + | - | 0 | 0 | 0 | 0 | 0 | |
| Starts us integrating | product lines | + | 0 | 0 | 0 | + | - | + | |
| Generates revenue i | n Q2 | 0 | 0 | 0 | 0 | + | 0 | + | |
| + = better than | Net score | 3 | 0 | -1 | 0 | I | 0 | 2 | |
| 0 = same as - = worse than Rank | | I | 4 | 5 | 4 | 3 | 4 | 2 | |
| Norse chalt | Continue? | Y | Ν | Ν | Y | Y | Ν | Y | |
| , | | | | © 200 | 3-2008 | 8 Moun | tain Go | oat Soft | ware |

| Theme scoring | | | | | | | | |
|--|--|------------|---------------------------|--|--|--|--|--|
| Like theme screening but selection criteria are weighted | | | | | | | | |
| Need to a | select a baseline theme fo | or eacl | n criteria | | | | | |
| Avoids | compression of a catego | ry | | | | | | |
| • Each then selection | ne is assessed against the criteria | e baseli | ne for each | | | | | |
| | Much worse than reference | 1 | | | | | | |
| | Worse than reference | 2 | | | | | | |
| | Same as reference | 3 | | | | | | |
| | Better than reference | 4 | | | | | | |
| Much better than reference 5 | | | | | | | | |
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| Theme | SCO | rin | g: | an | e> | kamj | Sle | 2 |
|------------------------------|------|--------|--------|-------------------|--------|-------------------|----------|-------------------|
| | | Ļ | | ieme A | Th | ieme B | | eme C |
| Selection Criteria | 1 | Weight | Rating | Weighted Score | Rating | Weighted Score | Rating | Weighted Score |
| Importance to existing cust. | | .25 | 3 | 0.75 | Ι | 0.25 | 4 | 1.00 |
| Competitive. with | ABC | .10 | 2 | 0.20 | 3 | 0.30 | 3 | 0.30 |
| Starts us integratin | ıg | .15 | 3 | 0.45 | 4 | 0.60 | 4 | 0.60 |
| Generates Q2 rev | enue | .50 | 5 | 2.50 | 2 | 1.00 | 3 | 1.50 |
| | Net | score | | 3.90 | | 2.15 | | 3.40 |
| | | Rank | | I | | 3 | | 2 |
| Cont | | | | Yes | | No | | Yes |
| | | | | | © 200 | 03–2008 Moun | itain Go | oat Software® |





Theme Screening Worksheet

| | | Themes | | | | | | | |
|--------------------|-----------|--------|--|--|--|--|--|--|--|
| MC | | | | | | | | | |
| Criteria | | | | | | | | | |
| Selection Criteria | | | | | | | | | |
| | | | | | | | | | |
| | Net score | | | | | | | | |
| | Rank | | | | | | | | |
| | Continue? | | | | | | | | |

+ = Better than 0 = Same as - = Worse than

Theme Scoring Worksheet

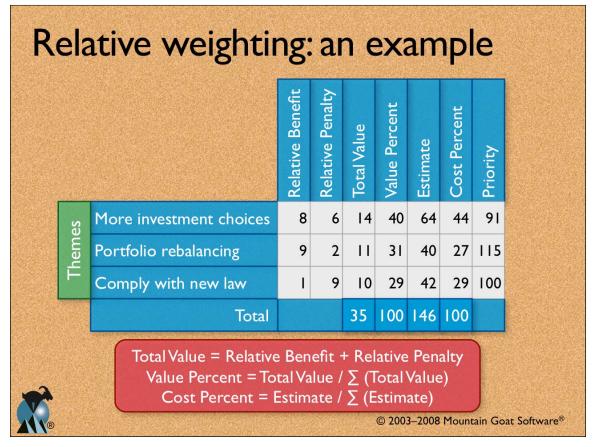
| | GOAT R E | | | | | | | | | | | |
|--------------------|-------------|--------|--------|-------------------|--------|-------------------|--------|-------------------|--------|-------------------|--------|-------------------|
| Selection Criteria | | Weight | Rating | Weighted Score |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | Net | Score | | | | | | | | | | |
| | | Rank | | | | | | | | | | |
| | Cont | inue? | | | | | | | | | | |

Relative weighting

- Assess the impact of having a story/theme from 1-9
- Assess impact of NOT having it from 1-9
- Calculate the value of each story or theme relative to the entire product backlog
 - This gives you the relative value of that story or theme
- Estimate the cost of each story theme
- Calculate the cost of each story or theme relative to the entire product backlog
 - This gives the relative cost of that story or theme
- Priority is given by (Relative Value ÷ Relative Cost)

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23



| An example with weights | | | | | | | | | | | |
|-------------------------|-------------------------------------|-------------------|-----------|------------------|------------------|-------------|---------------|----------|--------------|----------|--|
| | | | Weight→ | 2 | l | | | | | | |
| | | | | Relative Benefit | Relative Penalty | Total Value | Value Percent | Estimate | Cost Percent | Priority | |
| | es | More investmen | t choices | 8 | 6 | 22 | 41 | 64 | 44 | 93 | |
| | Themes | Portfolio rebalar | ncing | 9 | 2 | 20 | 38 | 40 | 27 | 141 | |
| | F | Comply with new | w law | Ι | 9 | 11 | 21 | 42 | 29 | 72 | |
| | | | Total | | | 53 | 100 | 146 | 100 | | |
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Relative Weighting Worksheet

| | • | Weight: | | | | | | | |
|--------|---------------|---------|------------------|------------------|-------------|---------------|----------|--------------|----------|
| | MOUNTAIN GOAT | | Relative Benefit | Relative Penalty | Total Value | Value Percent | Estimate | Cost Percent | Priority |
| | | | | | | | | | |
| ~ | | | | | | | | | |
| Themes | | | | | | | | | |
| F | | | | | | | | | |
| | | | | | | | | | |
| | | Total: | | | | 100 | | 100 | |

Total Value = Relative Benefit + Relative Penalty (× weights if used) Value Percent = Total Value $\div \Sigma$ (Total Value) Cost Percent = Estimate $\div \Sigma$ Estimate Priority = Value Percent / Cost Percent (higher = higher priority)

| Com | paris | on r | natri | ix | | |
|---------|-----------------|-------|------------------|---------|---------------|--------------------------|
| | Person Weeks | Cost | 3-Year Return | NPV | IRR | D. Payback (Quarters) |
| Theme A | 25 | \$150 | \$1,085 | \$448 | 133% | 2 |
| Theme B | 32 | 192 | \$2,109 | \$940 | 172% | 4 |
| Theme C | 90 | \$540 | \$2,537 | \$883 | 89% | 2 |
| Theme D | 48 | \$288 | \$1,360 | \$443 | 76% | 4 |
| Theme E | 55 | \$330 | \$900 | \$191 | 48% | 2 |
| Theme F | 79 | \$474 | \$1,365 | \$331 | 56% | 4 |
| Theme G | 90 | \$540 | \$5,964 | \$2,519 | 139% | 5 |
| Theme H | 50 | \$300 | \$2,415 | \$1,023 | 146% | 2 |
| Theme I | 15 | 90 | \$1,600 | \$747 | 221% | I |
| Theme J | 30 | \$180 | \$640 | \$182 | 65% | 2 |
| Theme K | 75 | \$450 | \$516 | (\$104) | 5% | NA |
| Theme L | 40 | \$240 | \$171 | (\$110) | (12%) | NA |
| Theme M | 80 | \$480 | \$1,025 | \$142 | 36% | 3 |
| Theme N | 18 | \$108 | \$185 | \$7 | 24% | 2 |
| Theme O | 6 | 36 | \$155 | \$53 | 90% | 1 |
| Theme P | 12 | \$72 | \$1,505 | \$748 | 355% | I |
| B | | | | © 200. | 3-2008 Mounta | ain Goat Software |

Upcoming public classes

| Date | What | Where | | | | | | |
|---|--|--------------------------|--|--|--|--|--|--|
| Oct 13 | Effective User Stories for Agile Requirements | San Jose | | | | | | |
| Oct 14–15 | Certified ScrumMaster | San Jose | | | | | | |
| Oct 16 | Agile Estimating and Planning | San Jose | | | | | | |
| Other class | ses in London and Oslo. | | | | | | | |
| Register at www.mountaingoatsoftware.com | | | | | | | | |
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