

Story How To

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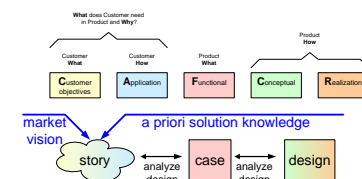
Abstract

A story is an easily accessible story or narrative to make an application live. A good story is highly specific and articulated entirely in the problem domain: the native world of the users. An important function of a story is to enable specific (*quantified, relevant, explicit*) discussions.

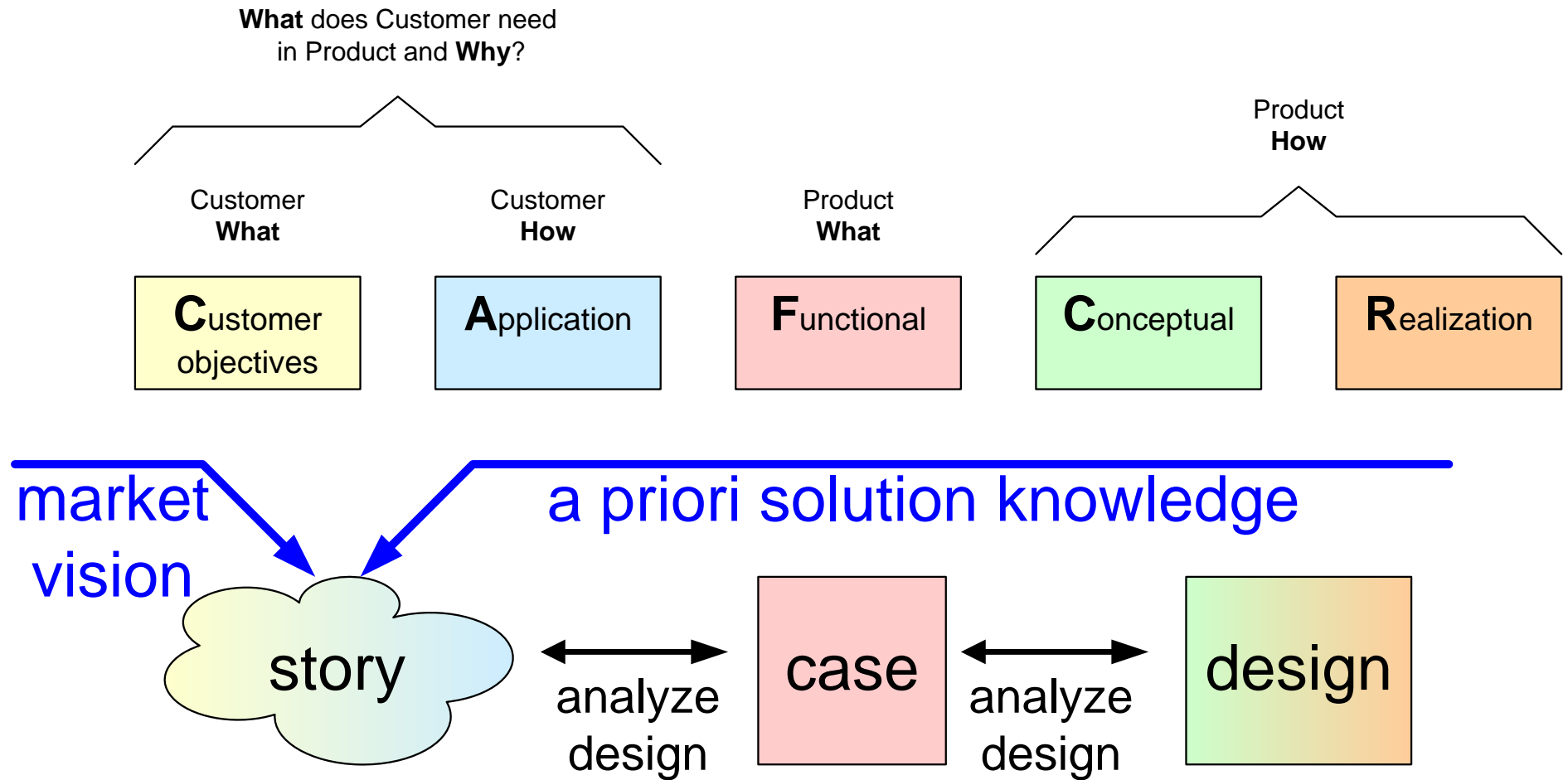
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From story to design



Example story layout

ca. half a page of plain English text

A day in the life of Bob

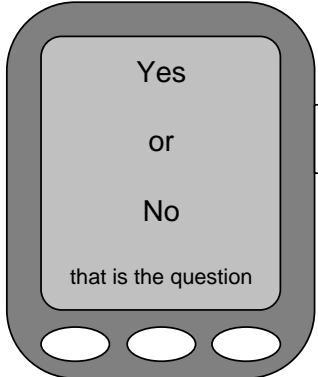
bla blah bla, rabarber music
bla bla composer bla bla
qwwwwety30 zeps.

nja nja njet njippie est quo
vadis? Pjotr jaleski bla bla
bla brree fgfg gsg hgrg

mjmm bas engel heeft een
interessant excuus, lex stelt
voor om vanavond door te
werken.

In the middle of the night he
is awake and decides to
change the world forever.

The next hour the great
event takes place:



This brilliant invention will change the world foreverbecause it is so unique and
valuable that nobody beliefs the feasibility. It is great and WOW at the same time,
highly exciting.

Vtables are seen as the sollution for an indirection problem. The invention of Bob will
obsolete all of this in one incredibke move, which will make him famous forever.

He opens his PDA, logs in and enters his provate secure unquie non trivial password,
followed by a thorough authentication. The PDA asks for the fingerprint of this little left
toe and to pronounce the word shit. After passing this test Bob can continue.

draft or sketch of
some essential
appliance

Criteria for a good story

Customer objectives

Application

- accessible, understandable

"Do you see it in front of you?"

Customer objectives

Application

- valuable, appealing

attractive, important

"Are customers queuing up for this?"

Conceptual

Realization

- critical, challenging

"What is difficult in the realization?"

"What do you learn w.r.t. the design?"

Application

- frequent, no exceptional niche

"Does it add significantly to the bottom line?"

Application

Functional

- specific

names, ages, amounts, durations, titles, ...

Example of a story

Betty is a 70-year-old woman who lives in Eindhoven. Three years ago her husband passed away and since then she lives in a home for the elderly. Her 2 children, Angela and Robert, come and visit her every weekend, often with Betty's grandchildren Ashley and Christopher. As so many women of her age, Betty is reluctant to touch anything that has a technical appearance. She knows how to operate her television, but a VCR or even a DVD player is way to complex.

When Betty turned 60, she stopped working in a sewing studio. Her work in this noisy environment made her hard-of-hearing with a hearing-loss of 70dB around 2kHz. The rest of the frequency spectrum shows a loss of about 45dB. This is why she had problems understanding her grandchildren and why her children urged her to apply for hearing aids two years ago. Her technophobia (and her first hints or arthritis) inhibit her to change her hearing aids' batteries. Fortunately her children can do this every weekend.

This Wednesday Betty visits the weekly Bingo afternoon in the meetingplace of the old-folk's home. It's summer now and the tables are outside. With all those people there it's a lot of chatter and babble. Two years ago Betty would never go to the bingo: "I cannot hear a thing when everyone babbles and clatters with the coffee cups. How can I hear the winning numbers?!". Now that she has her new digital hearing instruments, even in the bingo cacophony, she can understand everyone she looks at. Her social life has improved a lot and she even won the bingo a few times.

That same night, together with her friend Janet, she attends Mozart's opera The Magic Flute. Two years earlier this would have been one big low rumbly mess, but now she even hears the sparkling high piccolos. Her other friend Carol never joins their visits to the theaters. Carol also has hearing aids, however hers only "work well" in normal conversations. "When I hear music it's as if a butcher's knife cuts through my head. It's way too sharp!". So Carol prefers to take her hearing aids out, missing most of the fun. Betty is so happy that her hearing instruments simply know where they are and adapt to their environment.



source: Roland Mathijssen
Embedded Systems Institute
Eindhoven

Value and Challenges in this story

Customer objectives
Application

Value proposition in this story:
quality of life:
 active participation in different social settings
usability for nontechnical elderly people:
 "intelligent" system is simple to use
 loading of batteries

Conceptual
Realization

Challenges in this story:
Intelligent hearing instrument
Battery life — at least 1 week
No buttons or other fancy user interface on the hearing instrument, other than a robust On/Off method
The user does not want a technical device but a solution for a problem
Instrument can be adapted to the hearing loss of the user
Directional sensitivity (to prevent the so-called cocktail party effect)
Recognition of sound environments and automatic adaptation (adaptive filtering)

source: [Roland Mathijssen, Embedded Systems Institute, Eindhoven](#)