

The Hidden Requirements Exporing

Damian Synadinos



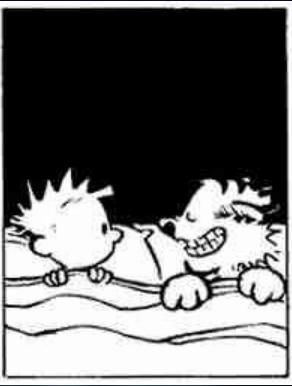
- **ineffable-solutions.com**
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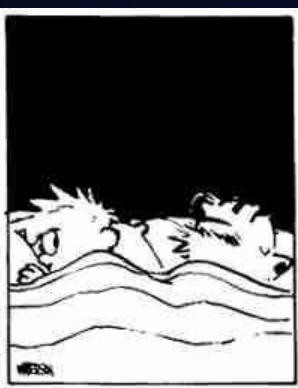
Tester Improviser Speaker Artist Husband Father











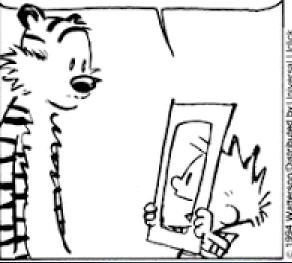
The way we about SOFTWARE

Agenda

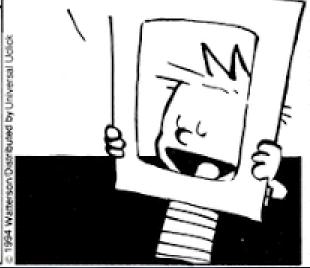
- Quotations
- © Purpose of Software
- Research
- Requirements
- Emotional Requirements
- E Placebos



NOW THAT I'M ON TELE-VISION, I'M DIFFERENT FROM EVERYBODY ELSE! I'M FAMOUS! IMPORTANT!



SINCE EVERYONE KNOWS ME, EVERYTHING I DO NOW IS NEWSWORTHY. I'M A CULTURAL ICON.



I THINK
YOUR ANTENNA
NEEDS
ADJUSTING.

WATCH, I'LL USE MY PRESTIGE TO ENDORSE A PRODUCT!





8-30 **Materia**

"When dealing with people, remember you are not dealing with creatures of LOGIC, but with creatures of EMOTION."

-Dale Carnegie, American writer

"I've learned that people will forget what you SAID, people will forget what you DID, but people will never forget how you made them FEEL.

-Maya Angelou, American poet

"Customers shouldn't think of your business as a place to BUY a product or USE a service. It should be a FUN place to be !""
-Richard Branson, Virgin Group founder

"Starbucks has a role and a meaningful RELATIONSHIP with people that is not only about the COFFEE!
Success is very shallow if it doesn't have EMOTIONAL meaning."

-Howard Schultz, CEO Starbucks

"We're NOT SELLING you anything.
We want you to FEEL differently
when you leave the store.

EMOTIONALLY engage customers,
Don't TRANSACTIONALLY engage them."

George Blankenship, former Apple and Tesla executive

"I've never felt like I was in the COOKIE business. l've always been in a feel good feel 6 business. My job is to sell Joy. My job is to sell HAPPINESS. My job is to sell an Experience." -Debbie Fields, Mrs. Fields Cookies founder

Successful businesses and people recognize the LAPOSTANGE OF EMOTIONS.

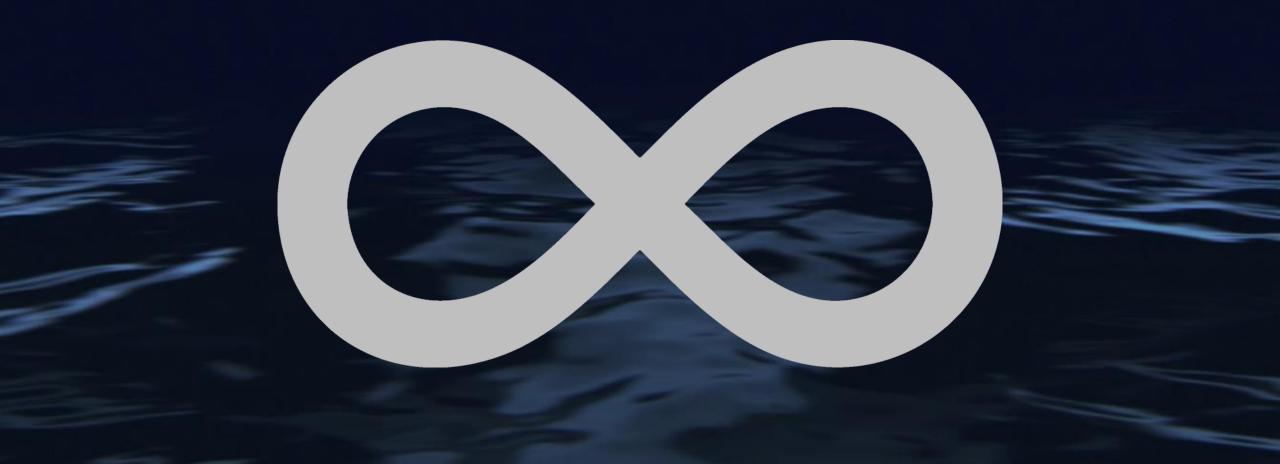








Specifically...

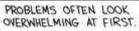


Generally...

to organize INFORMATION to collect and process DATA to simplify/automate WORKLOAD to maximize SHAREHOLDER PROFIT

to be USEFUL to help PEOPLE to solve problems

What is a rice: What is a SOLUTION?





THE SECRET IS TO BREAK PROBLEMS INTO SMALL. MANAGEABLE CHUNKS. IF YOU DEAL WITH THOSE, YOU'RE DONE BEFORE YOU KNOW IT.



FOR EXAMPLE. I'M SUPPOSED TO READ THIS ENTIRE HISTORY CHAPTER. IT LOOKS IMPOSSIBLE, SO I BREAK THE PROBLEM DOWN.



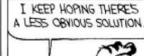








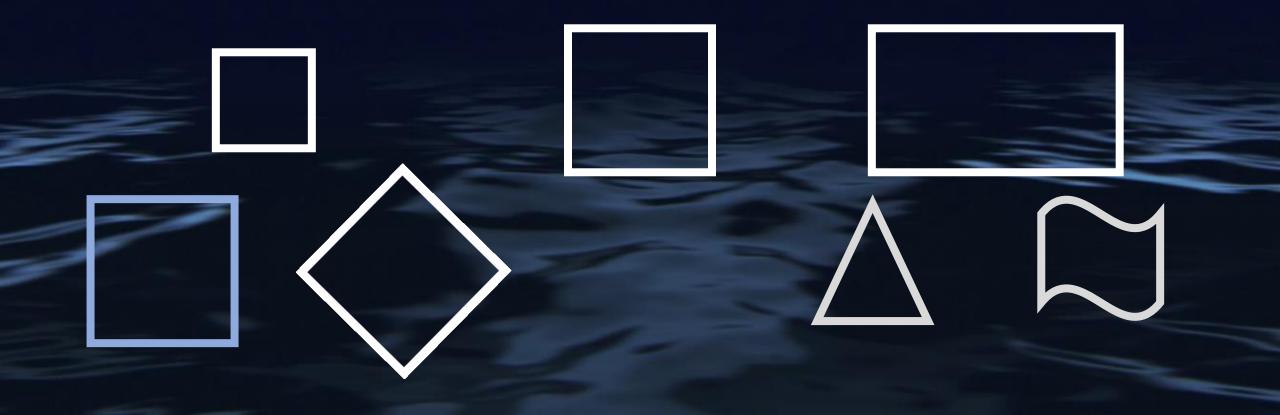






Square

A figure with four equal straight sides and four right angles



Problem

An undesirable state that differs from some desirable state

Solution

A desirable state that differs from some undesirable state

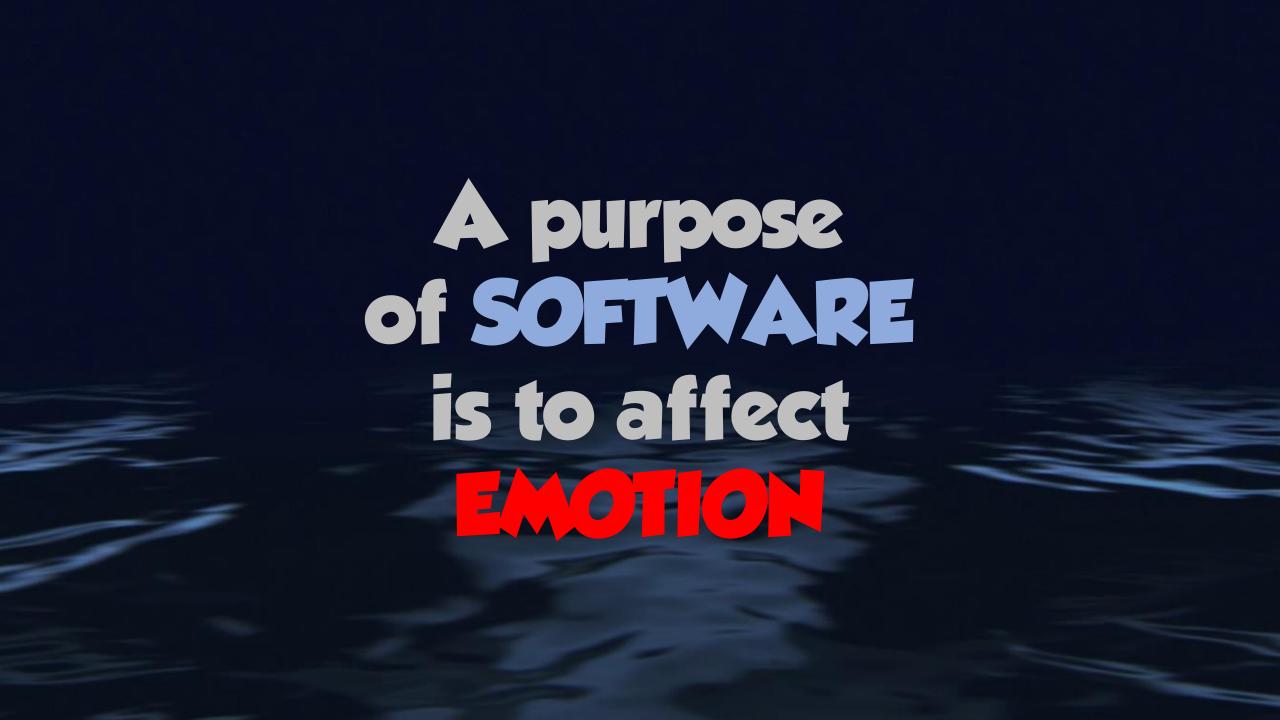




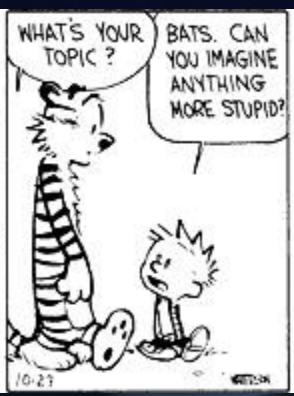
are an essential characteristic of PROBLEMS and SOLUTIONS

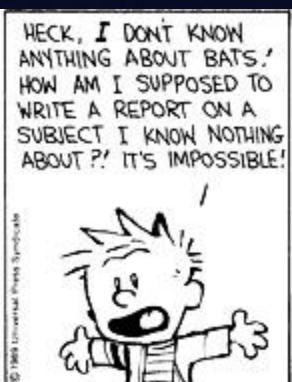
to be USEFUL to help people to solve problems to affect - Colon

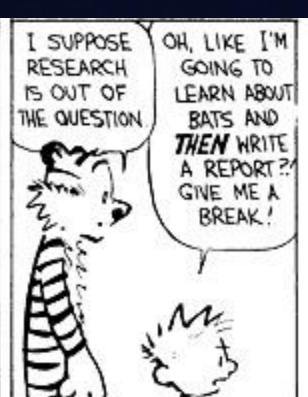
Purpose of Software to affect = 010 ...unless... MONOPOLY NECESSITY











"There are few studies in the literature that specifically address the relation between **EMOTIONS** and **SOFTWARE**."

"Modelling Emotional Requirements", 2014

- Boehm, B.W. and Ross, R., 1989, "Theory W Software Project Management: Principles and Examples"
- Goguen, J.A., 1994, "Requirements Engineering as the Reconciliation of Technical and Social Issues"
- Santos, I. and Carvalho, J.A., 1998, "Computer-Based Systems that Support the Structural, Social, Political and Symbolic Dimensions of Work"
- Clarisse S. de Souza, Raquel O. Prates, Simone D. J. Barbosa, 2003, "Adopting Information Technology as a First Step in Design: Lessons Learned from Working with Brazilian Social Volunteers"
- Johann Rost, 2004, "Political Reasons for Failed Software Projects"
- · Isabel Ramos, Daniel M. Berry, 2005, "Is Emotion Relevant to Requirements Engineering?"
- Isabel Ramos, Daniel M. Berry, Joao A. Carvalho, 2005, "Requirements engineering for organizational transformation"
- David Callele, Eric Neufeld, Kevin Schneider, 2006, "Emotional Requirements in Video Games"
- R. Proynova, B. Paech, S. H. Koch, A. Wicht, and T. Wetter, 2011, "Investigating the influence of personal values on requirements for health care information systems"
- Antonio A. Lopez-Lorca, Tim Miller, Sonja Pedell, Leon Sterling, Maheswaree Kissoon Curumsing, 2014, "Modelling Emotional Requirements"

""...[we argue] that EMOTIONS are just as important and valid as factors affecting requirements as are any other traditional FACTOR..."
"Is Emotion Relevant to Requirements Engineering?", 2005

"...the induced EMOTIONAL state is the most important deliverable requirement.

Any FUNCTIONALITY that exists, exists only to further that EMOTIONAL goal..."

"Emotional Requirements in Video Games", 2006

"...one way to produce better systems is to explore the users' EMOTIONS to uncover those HIDDEN REQUIREMENTS that may otherwise be ignored."

"Modelling Emotional Requirements", 2014

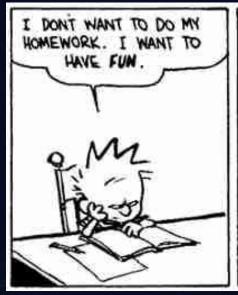
"" "...developers recognized that volunteers are MOTIVATED not for MONEY or ADVANCEMENT, but for their own SATISFACTION.""

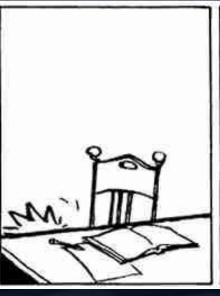
Adopting Information Technology as a First Step in Design: Lessons Learned from Working with Brazilian Social Volunteers", 2003

"The way people FEEL about a TECHNOLOGY can determine whether the technology is EMBRACED or REJECTED by its intended users." "Modelling Emotional Requirements", 2014

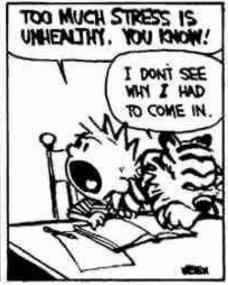
Research suggests that Exoto Al requirements can influence SOFTWARE acceptance and should be considered.

Requirements

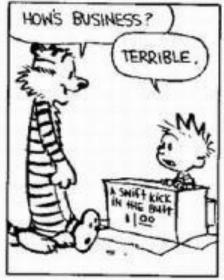
















Requirements

Requirement (Software)

A particular thing or goal that a system should be or do

Formats

- System should be/do <thing>
- · As a <role>, I want <goal>, So that <benefit>

Requirement

A thing that is wanted or needed.

Want

Something that is desired.

Need
Something that is necessary.



- Requirement

 A thing that is wanted or needed.
 - 1. Identify the requirement (X).
 - 2. Establish the purpose (Y) for X.
 - 3. Ask, "Can Y be achieved without X?"
 - · If "Yes", then X is a want
 - · If "No", then X is a need

- ""I require a Library Card"
- 1. Identify the requirement (a Library Card).
- 2. Establish the purpose for the Library Card (Checking out books from the library).
- 3. Ask, "Can Checking out books from the library be achieved without a Library Card?"
 - · "No" (the Library Card is a need)

Library Card to Check Out Books to Gain Knowledge to Learn to Cook to Impress Someone to Date Them to FEEL HAPPY

Need

Want

Need

Want

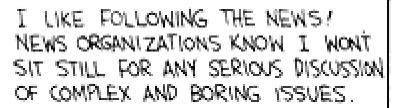
Want

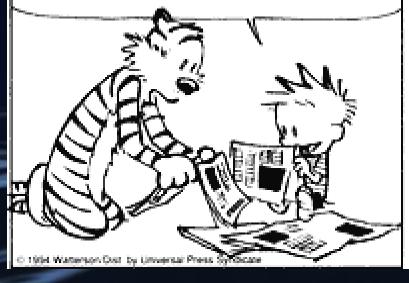
Want

Want? Need?

Requirements are WANTS OF NEEDS that can affect, and often originate from,

The way we about SOFTWARE





THEY GIVE ME WHAT I WANT: ANTICS, EMOTIONAL CONFRONTATION, SOUND BITES, SCANDAL, SOB STORIES AND POPULARITY POILS ALL PACKAGED AS A SOAP OPERA AND HORSE RACE! IT'S VERY ENTERTAINING.



THEN COMMENTATORS WONDER WHY THE PUBLIC IS CYNICAL ABOUT POLITICS.

YOU CAN TELL
THIS IS AN
IN-DEPTH STORY,
BECAUSE ITS GOT
AN ARTICLE NEXT
TO THE CHART.



Requirement (Software)

A particular thing or goal that a system should be or do

Emotional Requirement (Software)

A particular feeling that a system should induce in a particular user

Requirement Formats

- System should be/do <thing>
- · As a <role>, I want <goal>, So that <benefit>

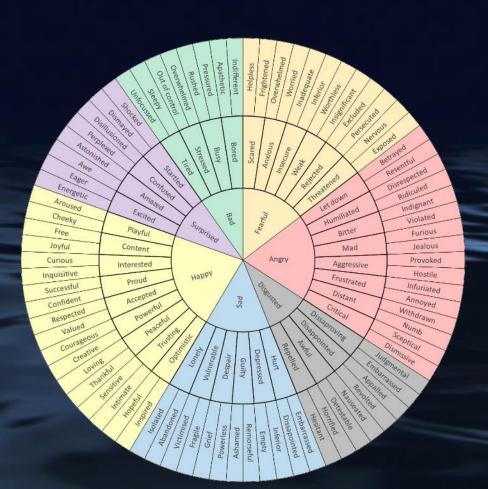
Emotional Requirement Formats

- System should be/do <thing> inducing <feeling> in <role>
- · As a <role>, I want <goal>, So that <feeling>

Feeling

What emotion do you want to induce?

anger, disgust, fear, anticipation, joy, sadness, surprise, trust



Feeling

What emotion do you want to induce? Target (Role/User)
In whom do you want to induce this emotion?

Context

What is the set of circumstances?

Getting Emotional Requirements

- · Interviews, Discussions
- · Surveys, Polls, Questionnaires
- Observation
- · Personas
- · Others (Ethnography, UDUM)
- Usability Matrix of Emotions

Inducing Emotional Requirements Case-by-case



Measuring Emotional Requirements

- · Interviews, Discussions
- · Surveys, Polls, Questionnaires
- Observation
- · Role-Play
- · Others (DEQ, Reiss Profile, PrEmo)
- Usability Matrix of Emotions

There are many methods to get and measure EMOTIONAL requirements.









Any thing or procedure that is intended solely for mental effects, but purports to also have (and may actually result in) physical effects, as well

Placebo response

A beneficial physical effect seemingly caused by a placebo but cannot be attributed to the physical properties of the placebo

Nocebo response

A detrimental physical effect seemingly caused by a placebo but cannot be attributed to the physical properties of the placebo

CLINICAL to placate EXPERIMENTAL to control CONDITIONING to appease

CONDITIONING

"Feeling you have control over your world is a

estrable State" —Ellen Langer, Harvard psychology professor

- Thermostats
- · Street Crossing buttons
- Door Closing buttons
- · Progress Bars
- · Refresh & Save Buttons
- Boo-boo kiss

Isolating Emotions

Imagine that some function or property is just a placebo to better consider the intended emotions that it should induce.

Bugs

Consider various scenarios to help determine intended and unintended results.

Ethics

Consider intentionally deceiving users for their benefit.

Thinking about SOFTWARE in terms of PLACEBOS can be useful.

Summary

- Successful businesses and people recognize the importance of **EMOTIONS**.
- A purpose of SOFTWARE is to affect EMOTION.
- Research indicates that **EMOTIONAL** requirements can influence **SOFTWARE** acceptance and should be considered.
- Requirements are WANTS or NEEDS that can affect, and often originate from, EMOTIONS.
- There are many methods to get and measure MONONAL requirements.
- Thinking about SOFTWARE in terms of PLACEBOS can be useful.

The way we about SOFTWARE

Thank You!

The Hidden Requirements

Exploring
EMOTIONS
with
PLACEBOS



