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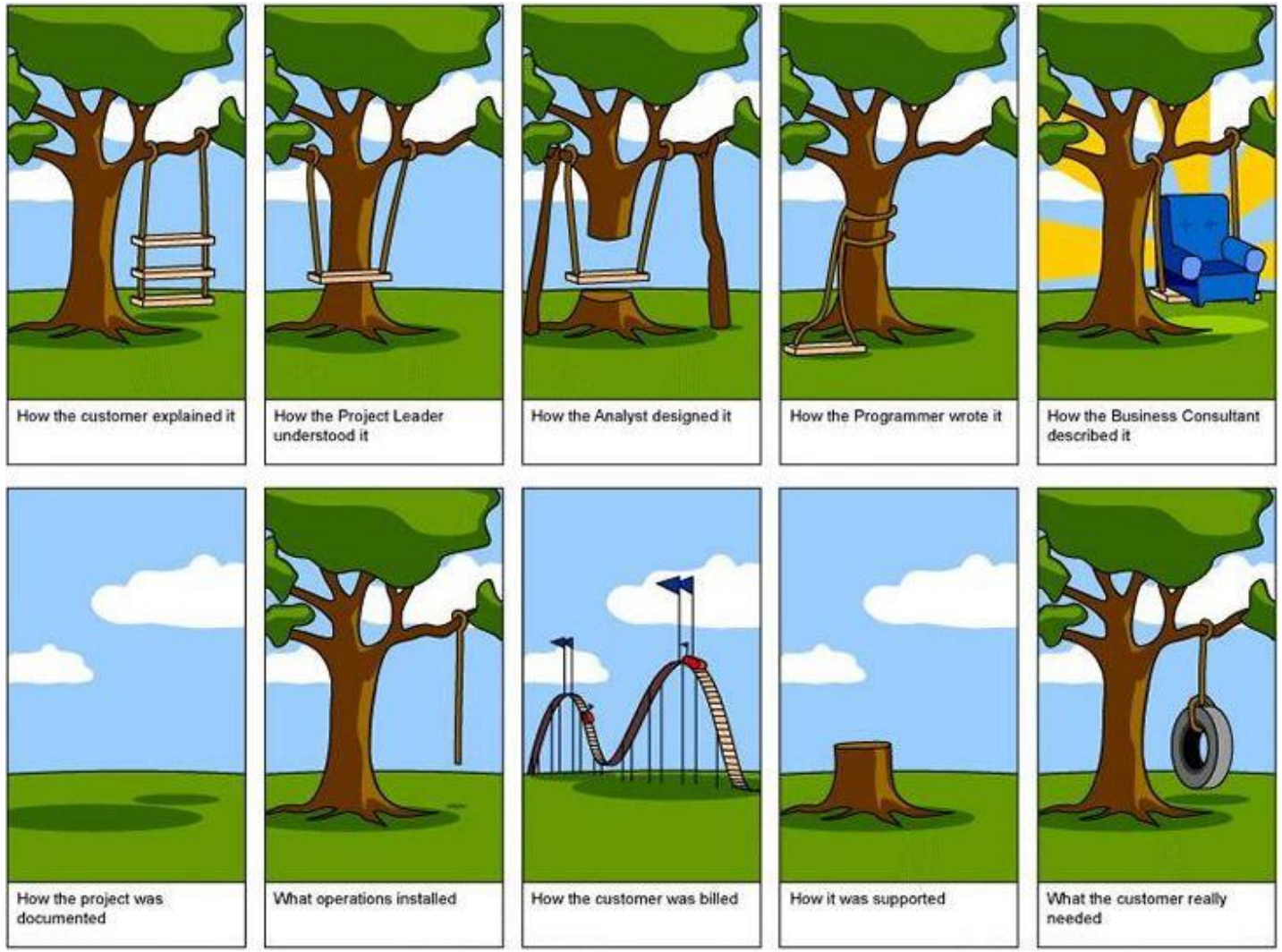
Information Modeling

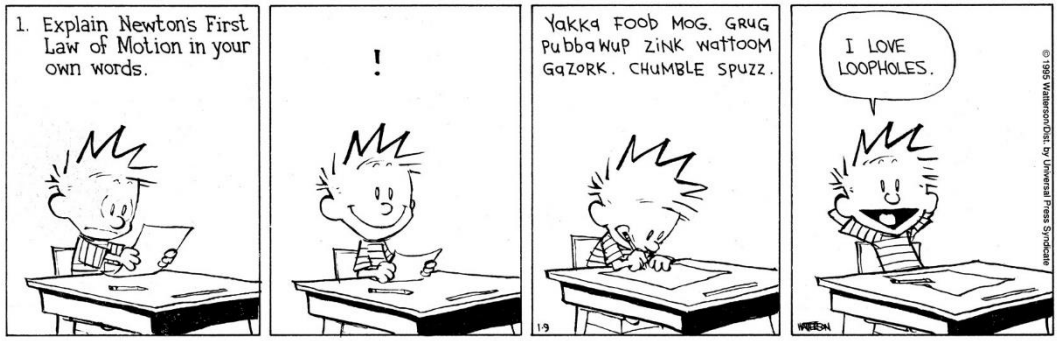
Using

The Unified Modelling Language (UML)

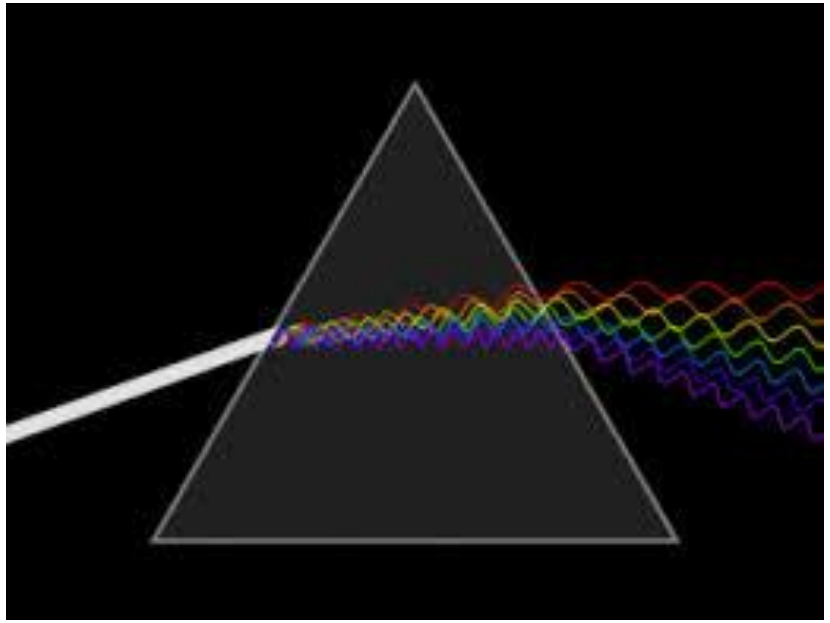
… the art of communication of the design of information..


How the customer explained it
How the Project Leader understood it
How the Analyst designed it
How the Programmer wrote it
How the Business Consultant described it
How the project was documented
What operations installed
How the customer was billed
How it was supported
What the customer really needed

Perspectives and Ambiguity



Perspectives

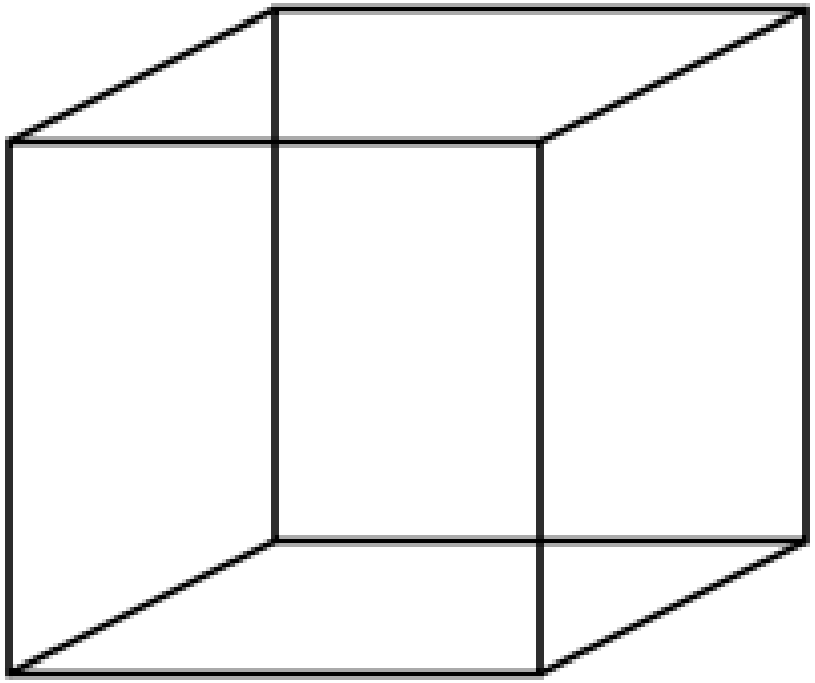


When designing Information Systems there can be Varying perspectives Concerning……

Functionality
Data requirements
Data properties – Public Vs Private attributes
Constraints
Cardinalities- e.g. Max, min number of modules a teacher should teach

UML diagrams provide a mechanism to display, discuss, negotiate and record these perspectives

Changing Perspectives - The Necker Cube



Changing Contexts……

Consider Contexts like

Technology advancement
Disaster Zones
Temporary or permanent context change
Legislation
Regulation

Affordance- Understanding what works

Constraints……

Cost
Scope
Time

Scope Creep……

I ADDED ALL OF THE PRODUCT FEATURES THAT EACH OF YOU DEMANDED.
PRODUCT
NOW OUR PRODUCT IS A WORTHLESS HODGEPODGE OF COMPLEXITY.
I APPRECIATE YOUR INPUT. I COULDN'T HAVE FAILED WITHOUT YOU.
TEAM-WORK!
Dilbert.com DilbertCartoonist@gmail.com
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WARNING
ASSUMPTIONS
AHEAD

Interesting Reads …..

London Ambulance Service- https://pdfs.semanticscholar.org/23ea/815b5f5e3a28d872bbe07c0504e166246e8b.pdf

Therac Disaster- http://sunnyday.mit.edu/papers/therac.pdf

PPARS- Irish Health Service- https://www.imt.ie/opinion/guest-posts/could-ppars-happen-again-a-costly-lesson-for-the-hse-02-11-2007/

NIMIS Less than symbol Incident- https://www.hse.ie/eng/services/publications/hospitals/nimis-less-than-symbol-incident.pdf

When you are finished reading reflect on one of the incidents and list the points which caused/exacerbated/contributed to the situation.