

Tom Gilb – Quantifying Music

Dominic Robinson – The Beard Heuristic

Jim Hague – Setting up an ACCU local group

Claudius Link – Complexity: Human Behaviour in Complex Situations

Erik Schlyter – Teenage Mutant Ninja Turtles Pattern

Diomidis Spinellis – name !shame: Rational Naming

Anders Schau Knatten – AUTOMATE ALL THE THINGS

Andy Balaam – Implementing Tail-call Optimisation in C++

Klaus Marquardt – Learning From School

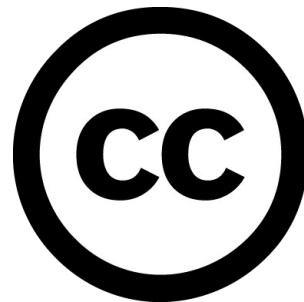
Ed Sykes & Raj Singh – Posse Programming

Bernhard Merkle – I Use A Dead Language

Complexity

First things first

Typos, spelling mistakes,
and other errors are



Complexity

And how we cope

Complex System

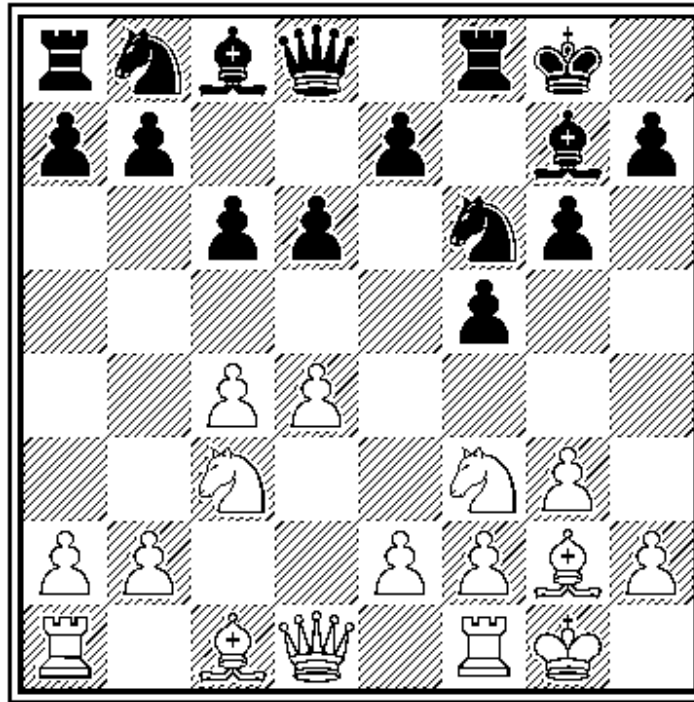
- “Large”
- Time dependent
- Non-Linear
- Interconnected

Examples



- Airport: http://calleam.com/WTPF/?page_id=2086
- Building site <http://www.flickr.com/photos/ell-r-brown/4417391863/sizes/z/in/photostream/>
- Nuclear power plant http://en.wikipedia.org/wiki/File:Nuclear_Power_Plant_2.jpg
- http://en.wikipedia.org/wiki/File:2010_07_24_arne_mueseler_0223.jpg
- http://en.wikipedia.org/wiki/File:US_Navy_071204-M-1226J-016_Bangladeshi_Citizens_offload_fo

Context dependent



Dutch, Leningrad, Main Variation with c6

<http://www.supreme-chess.com/chess-openings/chess-openings-a88.html>

How do we cope?

Bad!

Examples



- <http://en.wikipedia.org/wiki/File:Staufen.Cracks.jpg>
- <http://www.taz.de/!31335/> (Cologne archive)
- <http://susansdiaryvintagestylemeets.blogspot.co.uk/2011/04/remember-tschernobyl-prypjat.html>
- http://en.wikipedia.org/wiki/File:St%C3%B6wer_Titanic.jpg

Human habits

- Over Confidence
- Illusion of Control
- Linear Thinking
- Direct Response
- Information Bias
- Simplification

Social / Environmental “habits”

- Group think
- Time pressure

The Solution®

The Solution®

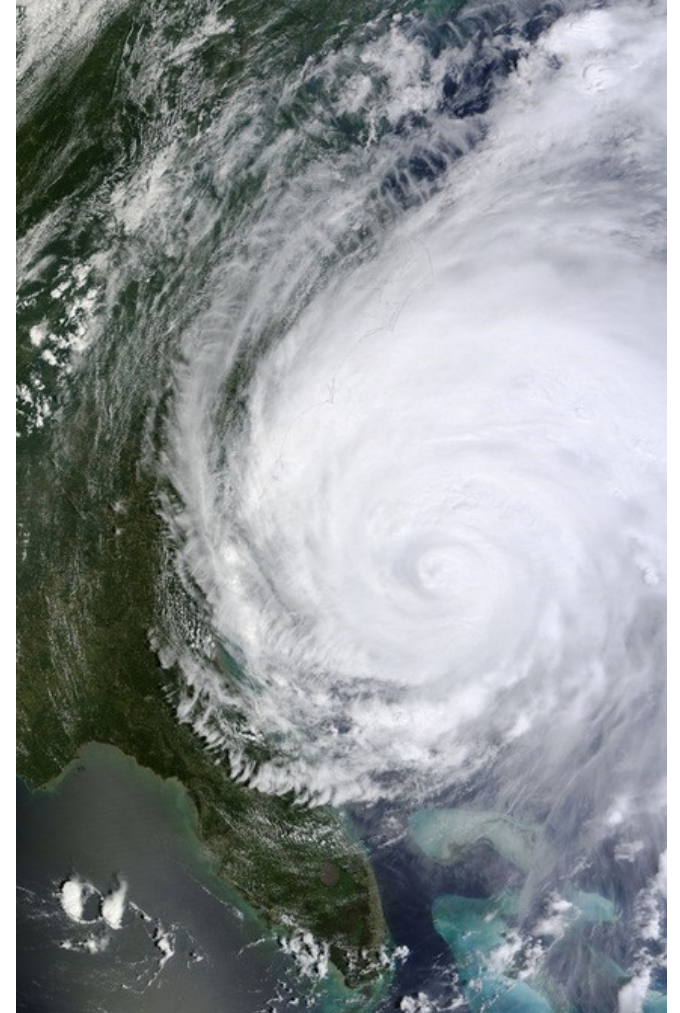
Sorry, no quick fix :-)

AAA

- Acknowledge
- Attention
- Awareness

Acknowledge

There's no sense in being precise
when you don't even know what
you're talking about.
John Neumann



Attention

- What happens
 - Remote and side effects
-
- Reflect
 - Objectively
 - On the **reality**

Aware

- Over confidence
- Confirmation bias
- Non-linear & delayed responses
- ...

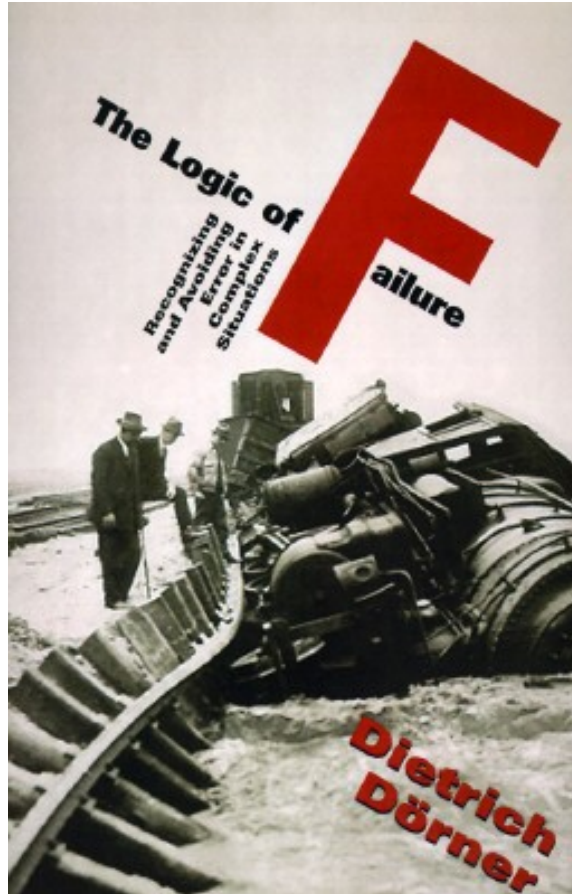
Aim for “Robust” not necessarily “Optimal”

An Approach

- Do
- Check
- Adapt

Works quite well, apart from when it doesn't

More



The art of clear thinking: 52 errors in reasoning, you should leave to others