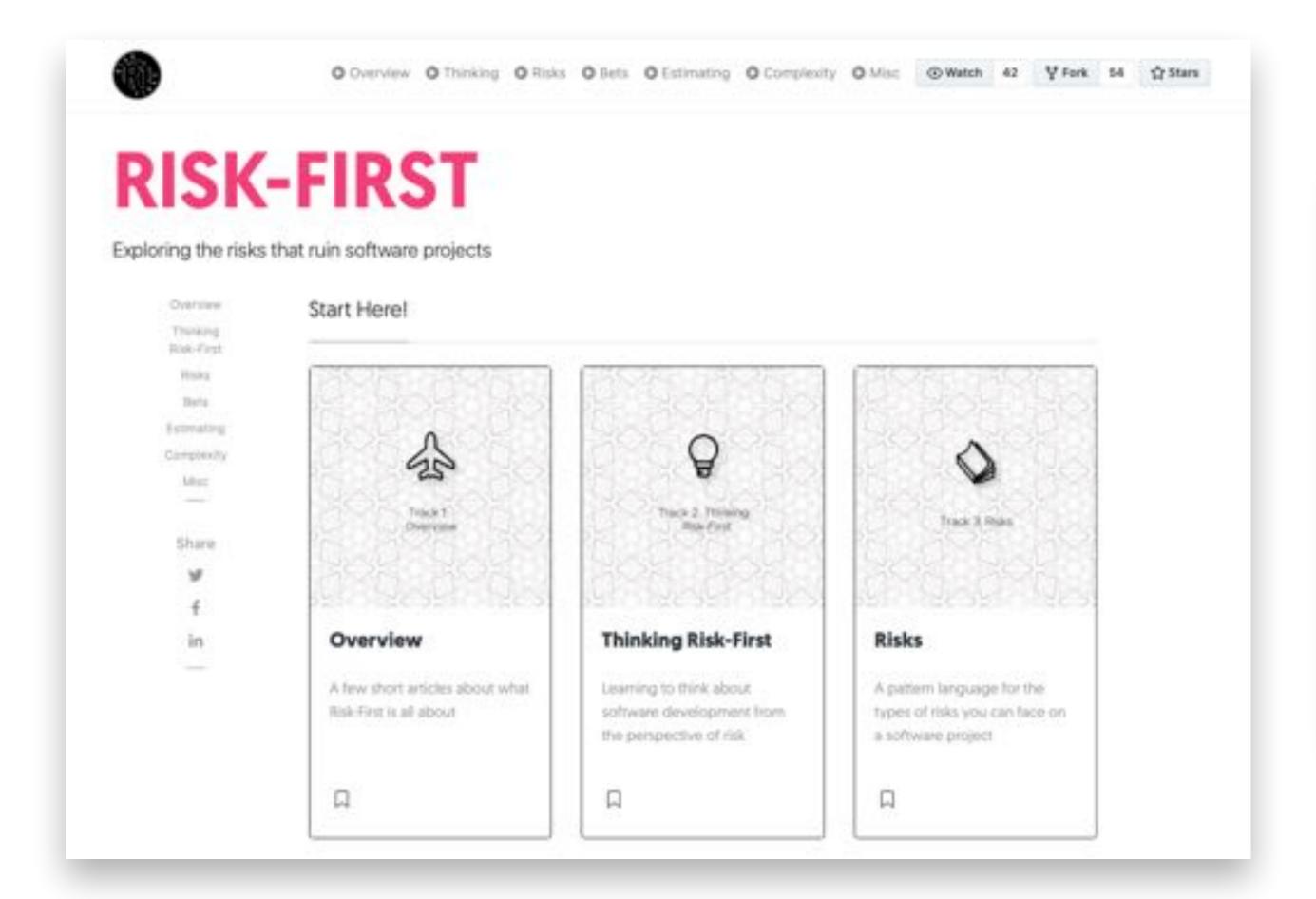


If Dev is a Game, How do I Win?

riskfirst.org







All Work Is Risk Management



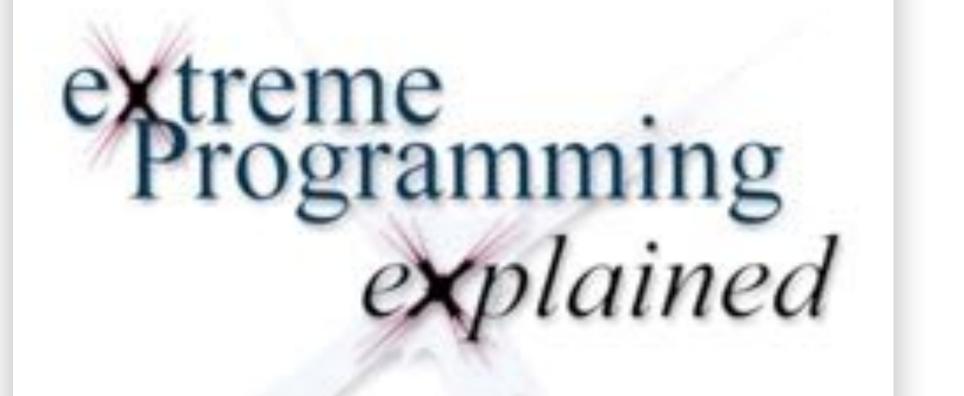
If Dev Is a Game - How Do I Win?



All Work Is Risk Management

"The Basic Problem of Software Development is Risk"

-?, 2000



EMBRACE CHANGE

Kent Beck





The new major version of the programmer-friendly testing framework for Java



Without Unit Tests

With Unit Tests

More Manual Testing

More Complex Codebase

Risk of Regressions

Takes Time to Write Them

Basel

Market Risk

Credit Risk

Operational Risk



Environmental Hazards

- Coastal flooding
- River flooding
- Surface water flooding
- Storms
- Low temperatures
- Heatwaves
- Droughts
- Severe space weather
- Volcanic eruptions
- Poor air quality
- 22. Earthquakes
- 23. Environmental disasters overseas
- Wildfires

Malicious Attacks

- Attacks on publicly accessible locations
- Attacks on infrastructure
- Attacks on transport
- Cyber attacks
- Smaller scale CBRN attacks
- Medium scale CBRN attacks
- Larger scale CBRN attacks
- Undermining the democratic process*

Major Accidents

- Widespread electricity failures
- Major transport accidents
- System failures
- 32. Commercial failures*
- 33. Systematic financial crisis*
- 34. Industrial accidents nuclear*
- 35. Industrial accidents non nuclear*
- 36. Major fires*









RISK-FIRST

Exploring the risks that ruin software projects

Overview.

Thinking Risk-First

Rinks.

Betz.

Estimating

Complexity

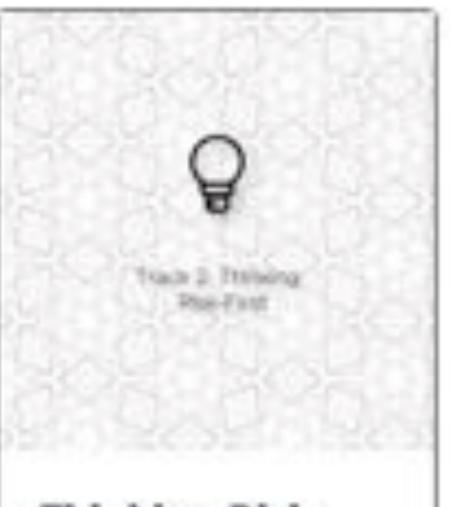
Misc

Start Here!



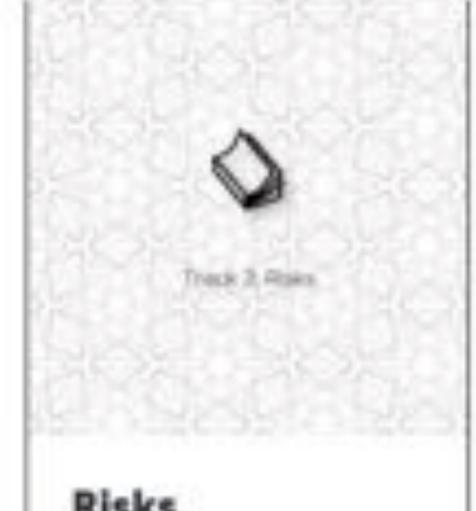
Overview

A few short articles about what Risk-First is



Thinking Risk-First

Learning to think about



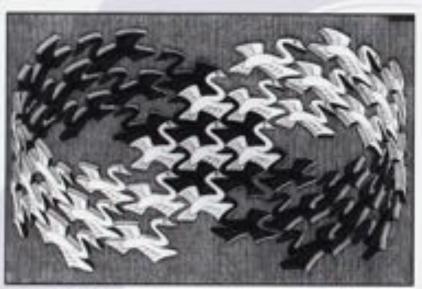
Risks

A pattern language for the types of risks you

Design Patterns

Elements of Reusable Object-Oriented Software

Erich Gamma Richard Helm Ralph Johnson John Vlissides



Cover art © 1994 M.C. Excher | Cordon Art - Baarn - Holland: All rights reser-

Foreword by Grady Booch





"Sometimes, at the end of a 'Dream Sequence' or an 'All Just a Dream' episode, after the character in question has woken up and demonstrated any '[lesson]' that the dream might have been communicating, there's some small hint that it wasn't a dream after all, even though it quite obviously was... right?."

- Or Was It a Dream?, TVTropes.org



All Work Is Risk Management

"Debbie needs to visit the client to get them to choose the logo to use on the product, otherwise we can't size the screen areas exactly." "Debbie needs to visit the client to get them to choose the logo to use on the product, otherwise we can't size the screen areas exactly."



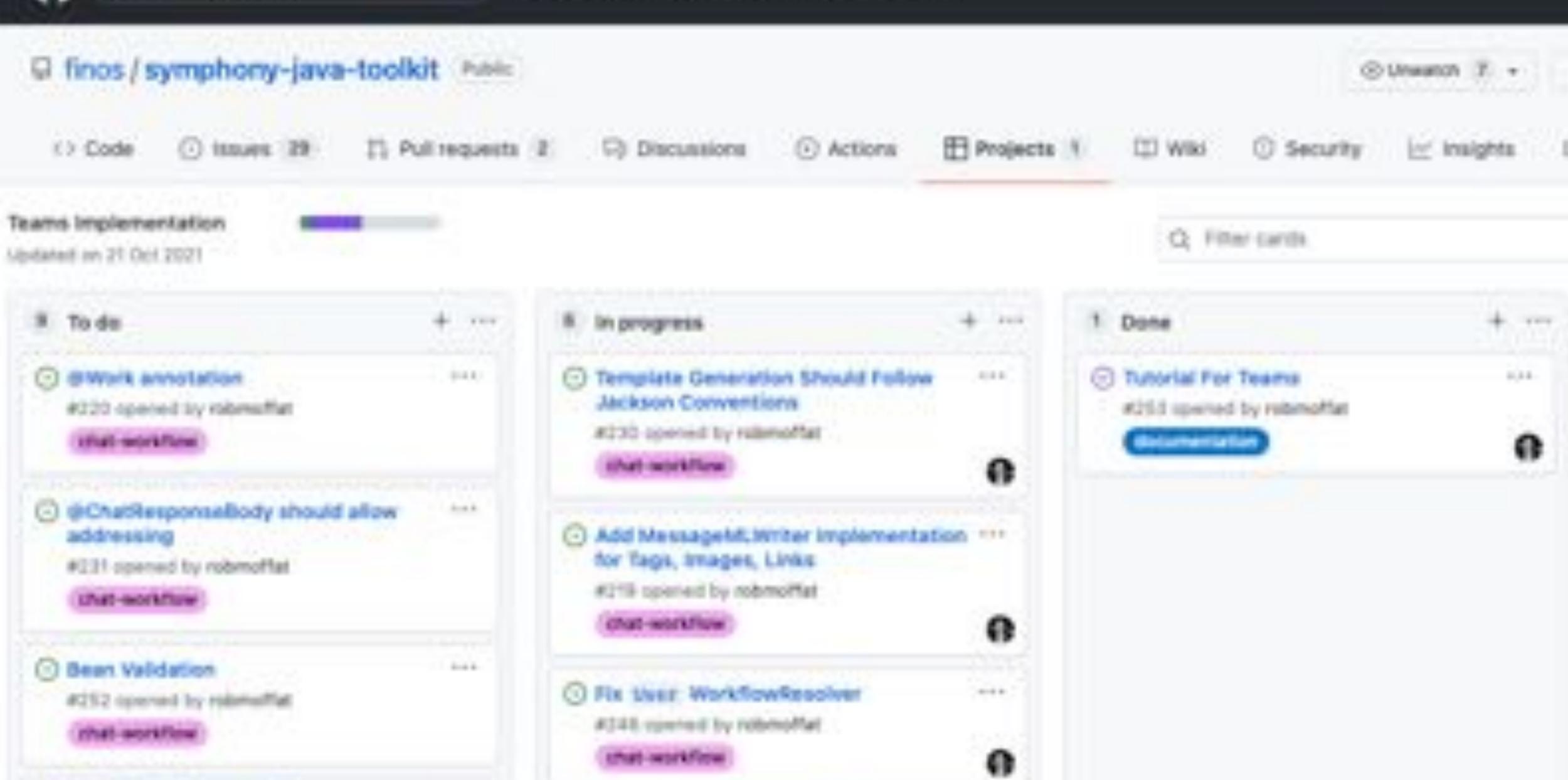




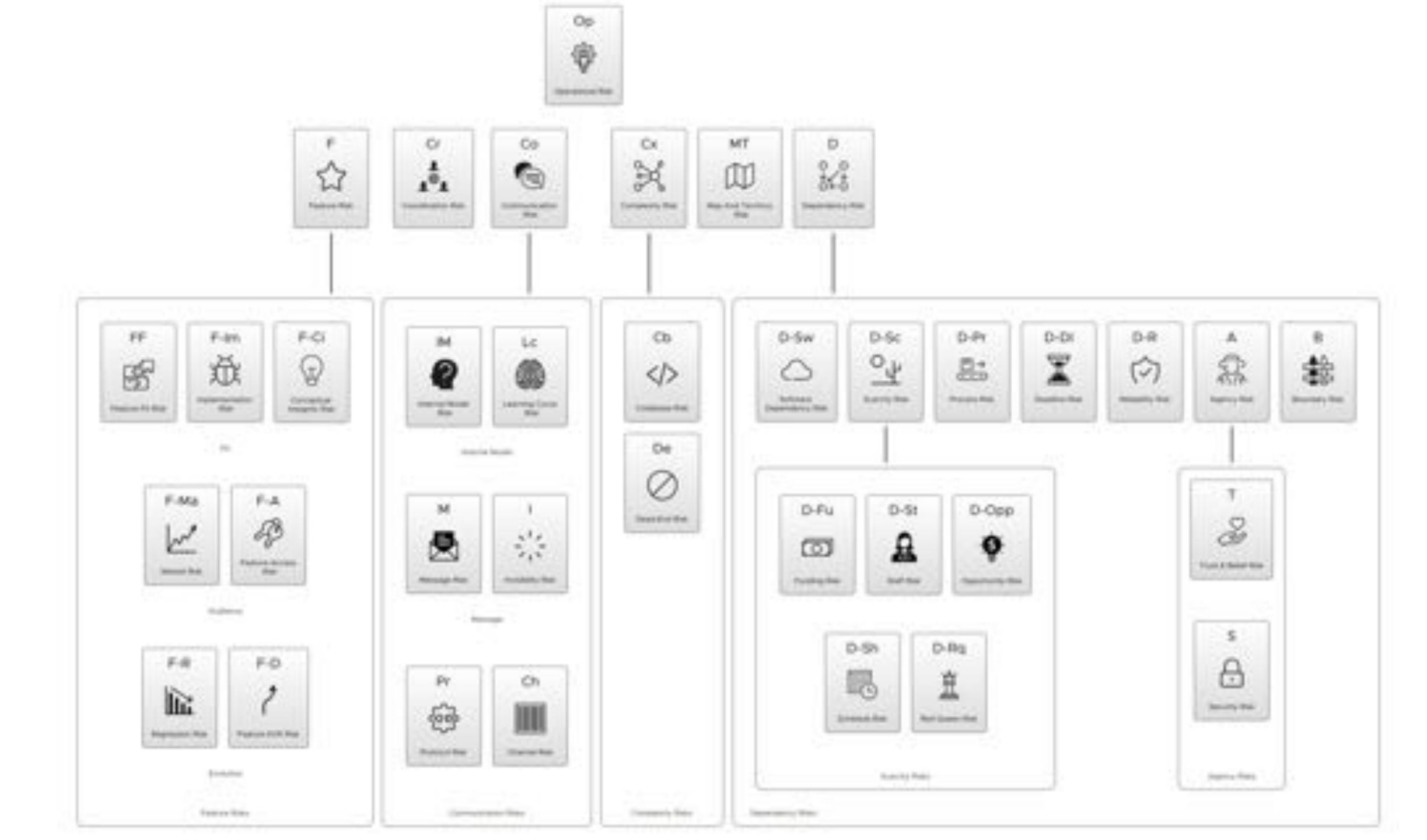


Unit Testing Framework

#251 opened by robmoffat.



11 Microsoft Teams Support



"We've survived 200,000 years as humans. Don't you think there's a reason why we survived? We're good at risk management."

- NN Taleb



All Work Is Risk Management

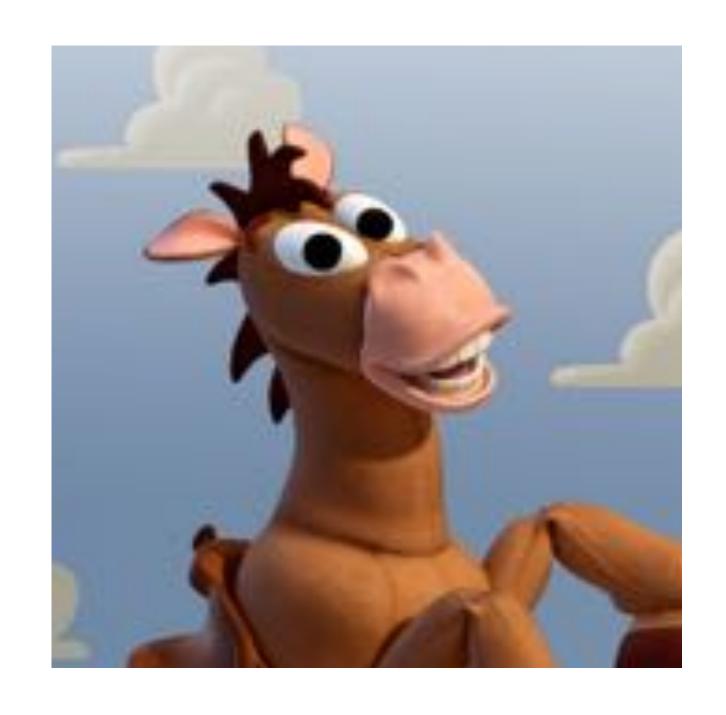
(visit riskfirst.org for more)

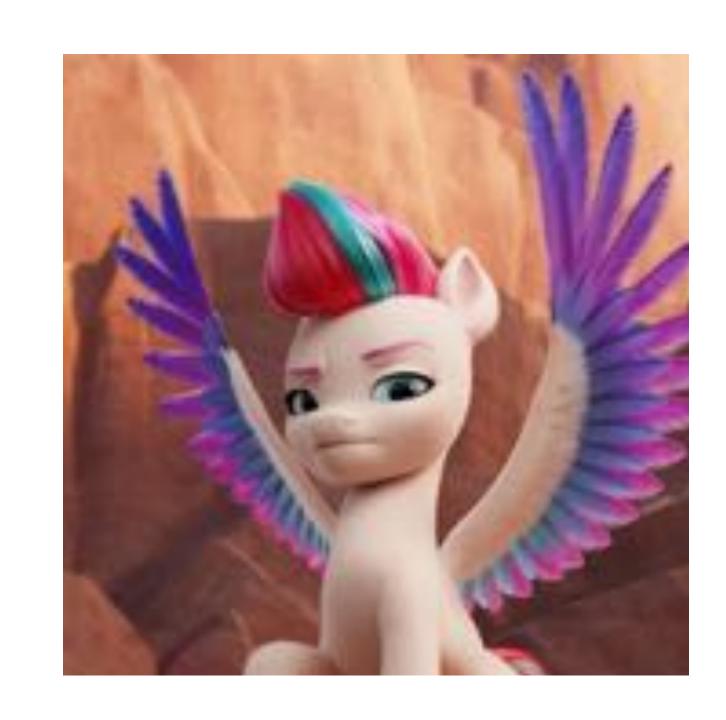


If Dev Is a Game - How Do I Win?

Strategy 1: Pick the Winner







Horse A

Horse B

Horse C

50%

30%

20%

3:2

2:1

3:1

INTERNAL MODEL

"The model of reality held by an individual, team, software system or other Agent."





As we know:

- There are known knowns.

 There are things we know we know.

 know.
- We also know there are some things we do not know.
 - But there are also unknown unknowns The ones we don't know we don't know.

Known

Aware Known Known

Known Unknown

Unaware

Don't Know We Know it

Unknown Unknown





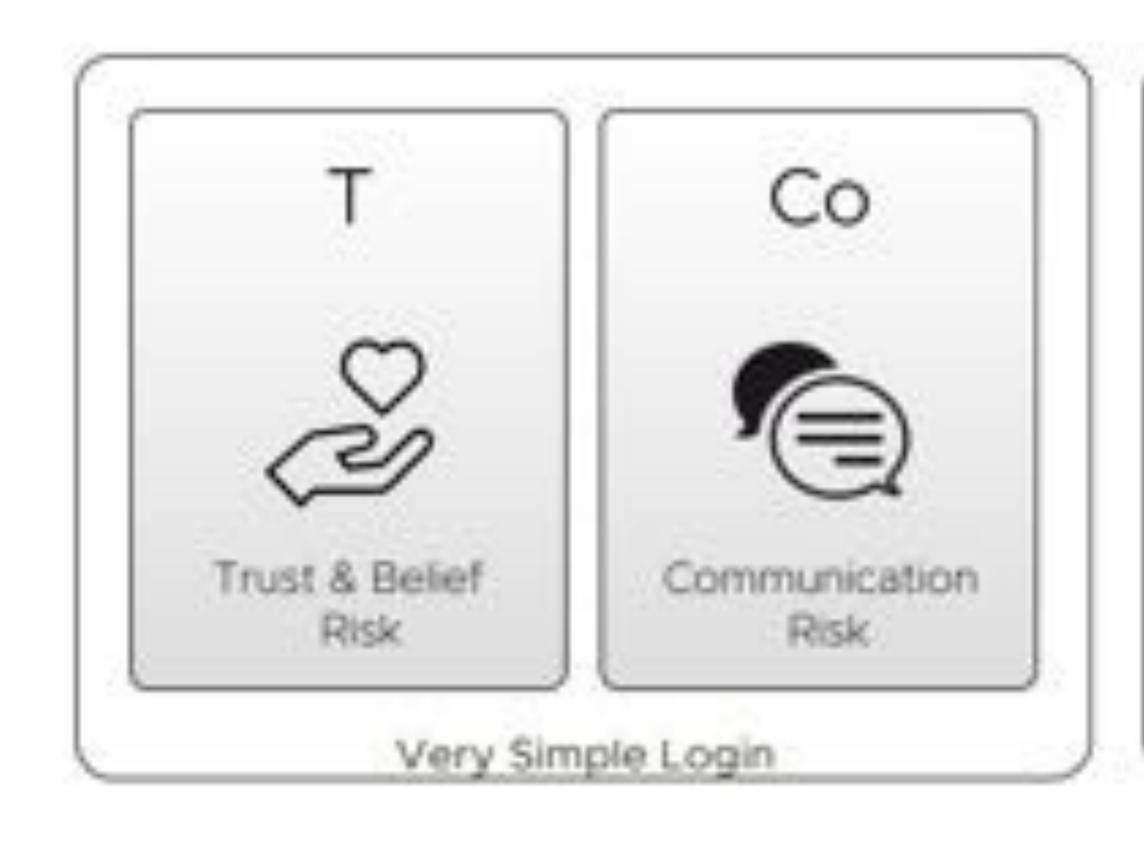


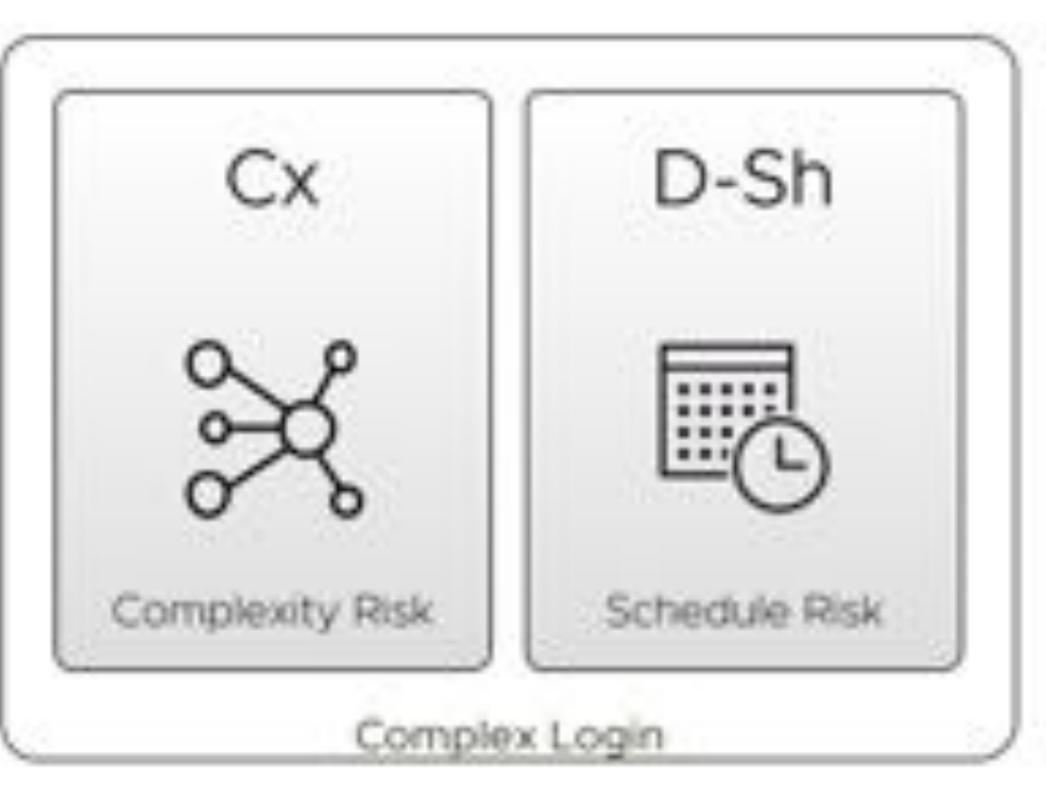
If Dev Is a Game - How Do I Win?

Meta-Games

Login	
Username :	
Password:	
Submit	

Login Login Not a member?



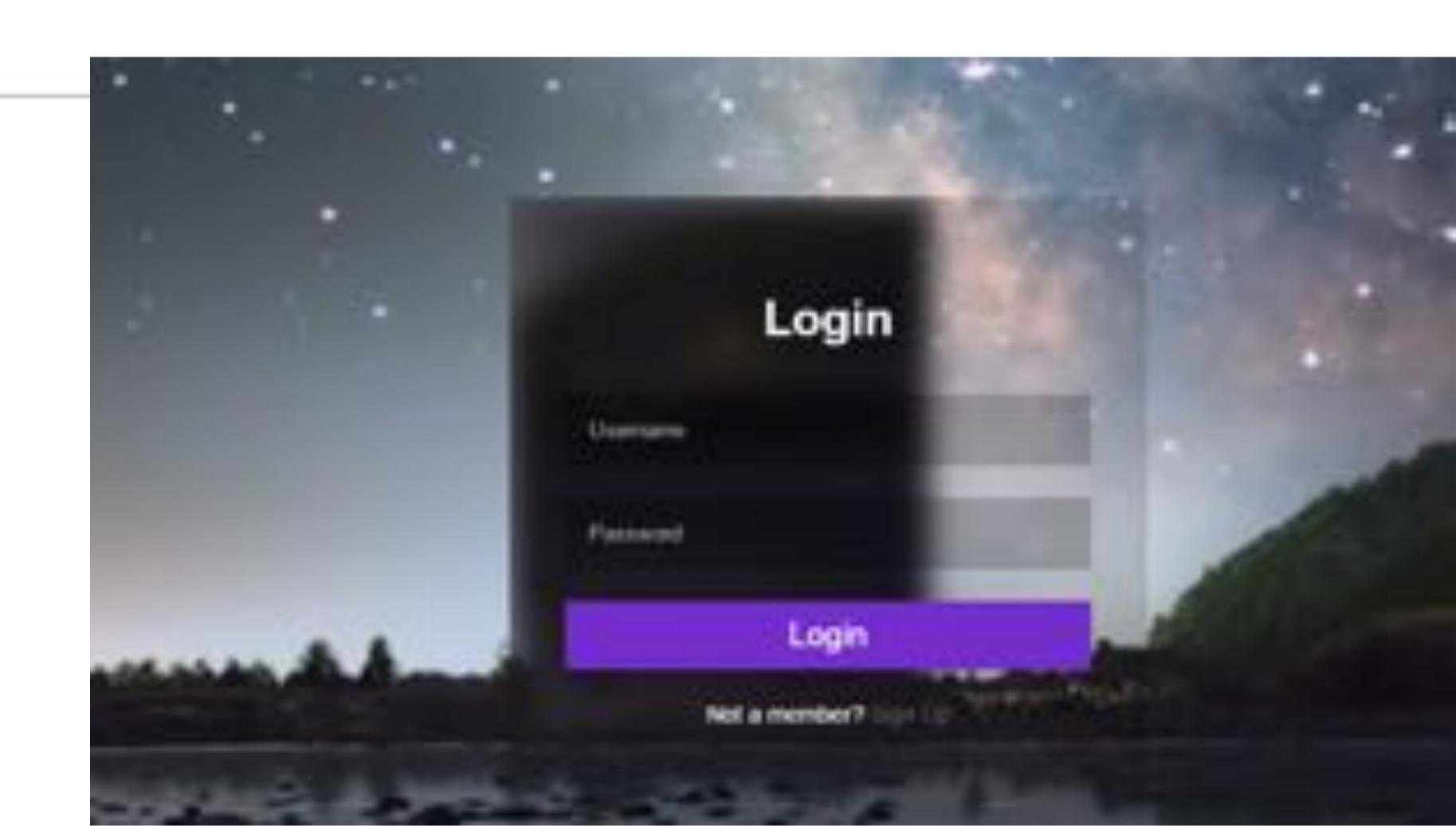


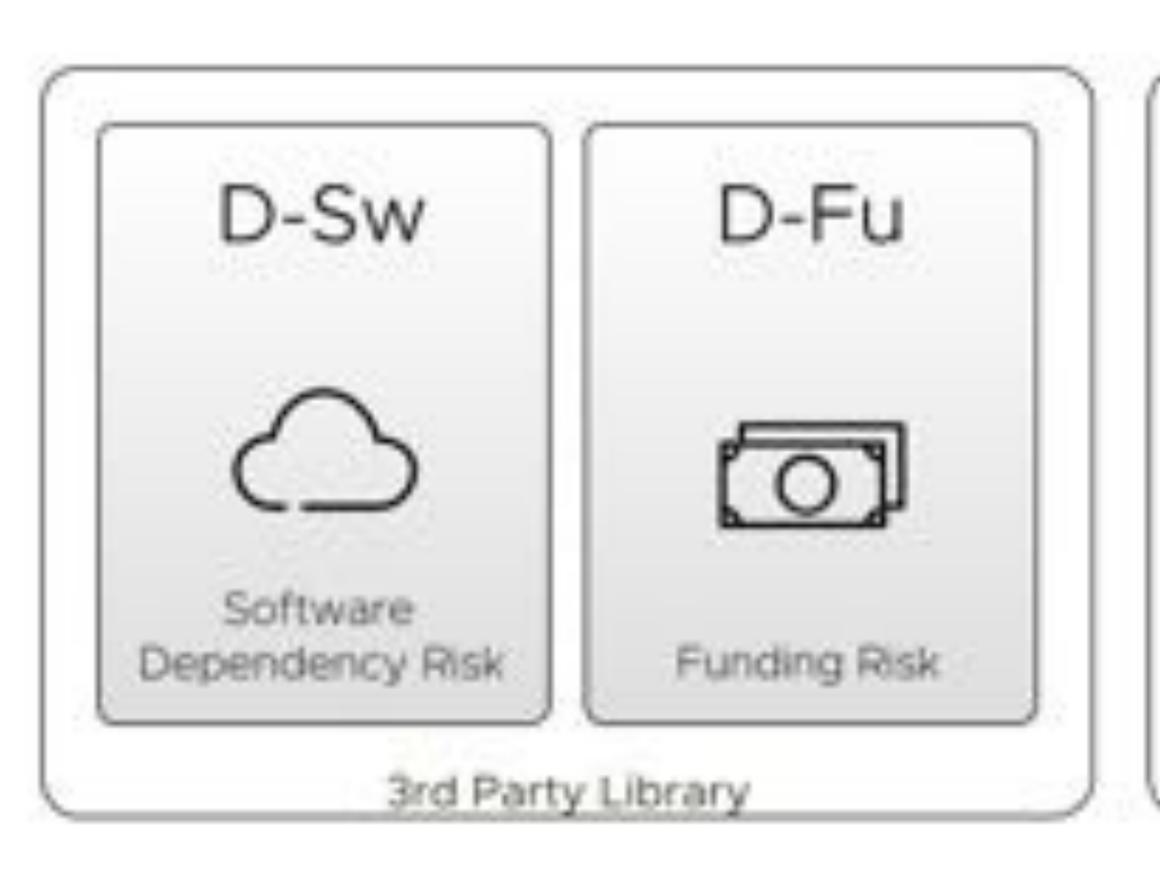
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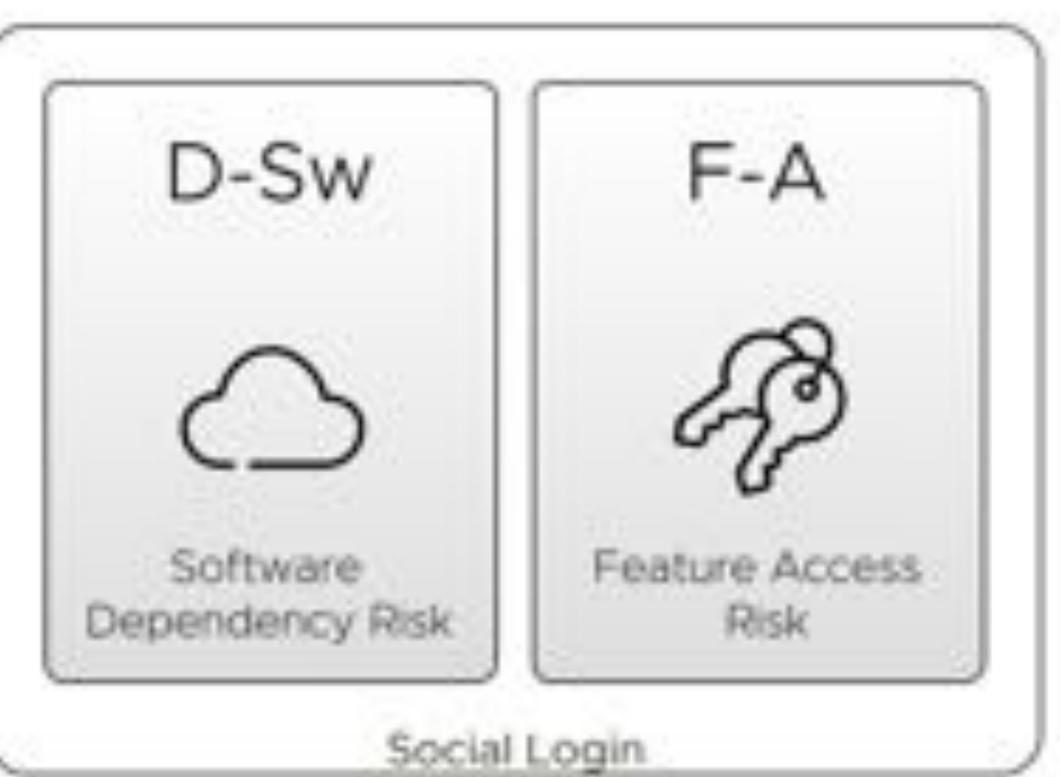
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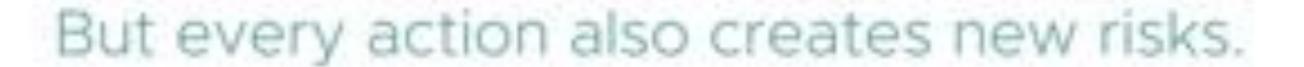






What's the Payoff?

Every action you take should reduce risks.



Is the balance in your favour?



RISK-FIRST SOFTWARE DEVELOPMENT

Games vs Meta-Games

Reduce Overall Project Risk

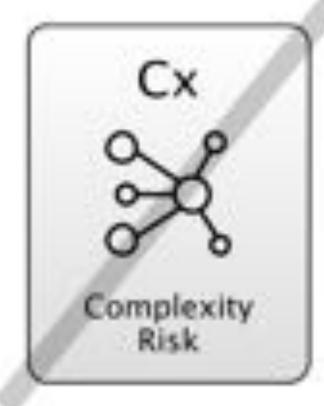
Build A Classy Looking Login

Impress The Boss

Learn New Tech

Get It Done Super-Quick

A Refactoring Bet



Refactoring makes code easier to reason about and manipulate...

Payoff

Refactoring



... but shifts back the delivery of everything else.

Stake

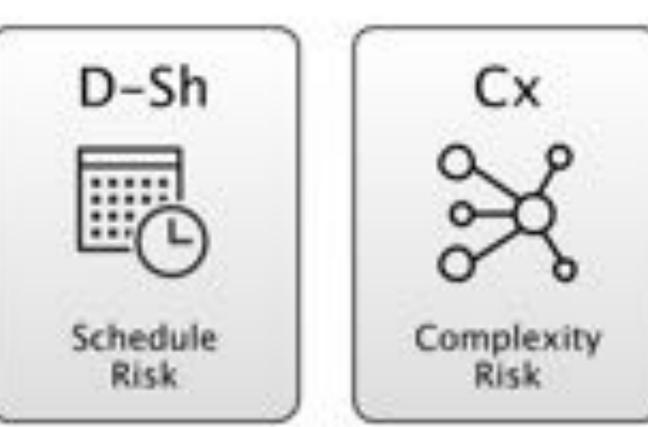
A New Feature Bet



New Feature

Adding new features to your software can make it fit the users' needs better...

Payoff





... but costs time, adds complexity, and may make the software harder to understand.

Stake



Exploring the risks that ruin software projects



On Bets

"Every gambler knows / that the secret to survivin' / is knowin' what to throw away / and knowin' what to keep." - The Gambler, Kenny Rogers

This is a short sequence of articles that looks at the idea of betting, at different levels within software development: first from a task-planning perspective, then coding and then debugging.

Outcomes

Stay Healthy

Track the risks to the health of:

Yourself

Your team

Your project

Your company.

They are all related.



SOFTWARE DEVELOPMENT

Here's the Help I'm Looking For...

Building Projects

"Waterfall" / SSADM

Toyota Production System

Lean Software Development

Risk Management

Risk-First

SkunkWorks?

Agile

Here's the Help I'm Looking For...



https://riskfirst.org

√ Reviewers √ Editors √ Feedback √ Champions

https://github/risk-first/website repo to join the team