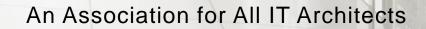
WHO OWNS THIS CODE?

....

MARCH 23RD 2023



Who owns this code? Code Ownership & Open Collaboration

Clare Dillon

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Clare Dillon

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InnerSource SPECIAL INTEREST GROUP



Open Collaboration

Image thanks to @juliot

Let's talk about Open Collaboration...

Let's talk about InnerSource...

InnerSource is using Open Source engineering methods inside proprietary organizations

What is Open Source? Source code that can be...



Not Just Code....



What is InnerSource? Source code that can be...



BEHIND A FIREWALL

InnerSource is about Open Source....

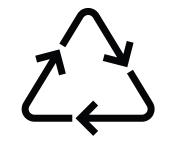


BEHIND A FIREWALL

WHY? INNERSOURCE











PATH TO OPEN SOURCE READINESS

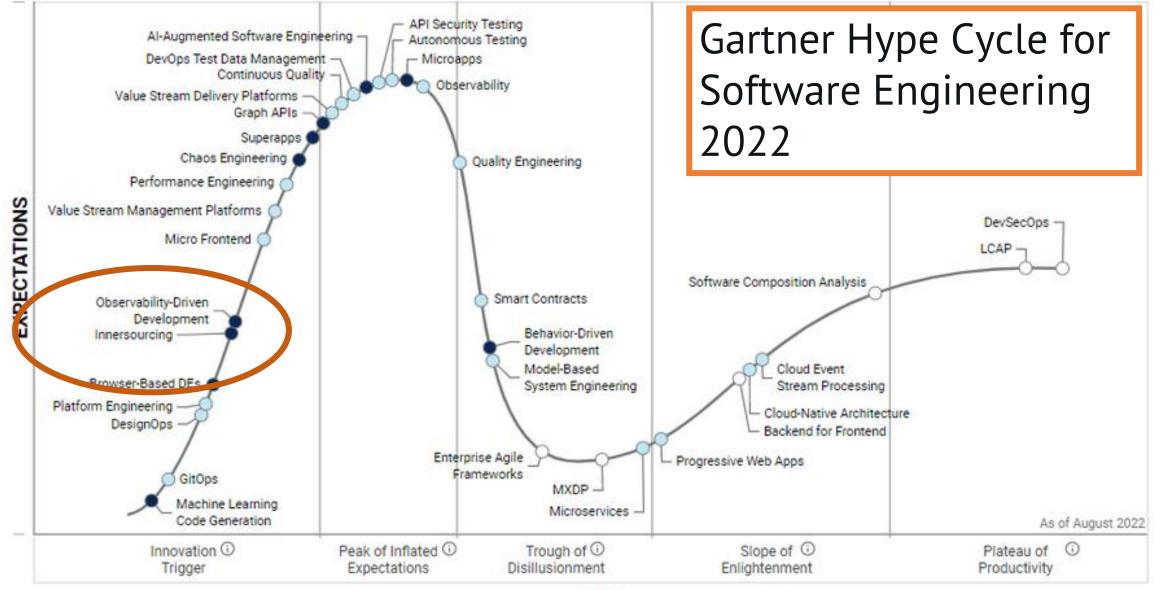
REDUCE SILOS & WASTE

DEVELOPER PRODUCTIVITY & CODE QUALITY HAPPIER DEVELOPERS & SKILLS Time To Plateau Will Be Reached: (

)(🔘 2-5 yrs.)(🌒 5-10 yrs.

O < 2 yrs.

† < >



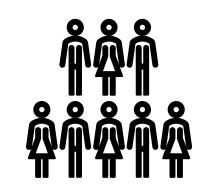
Source: bit.ly/InnerSourceGartnerHype

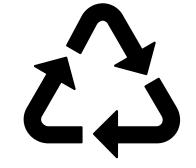
TIME

INNERSOURCE – WHY NOW?







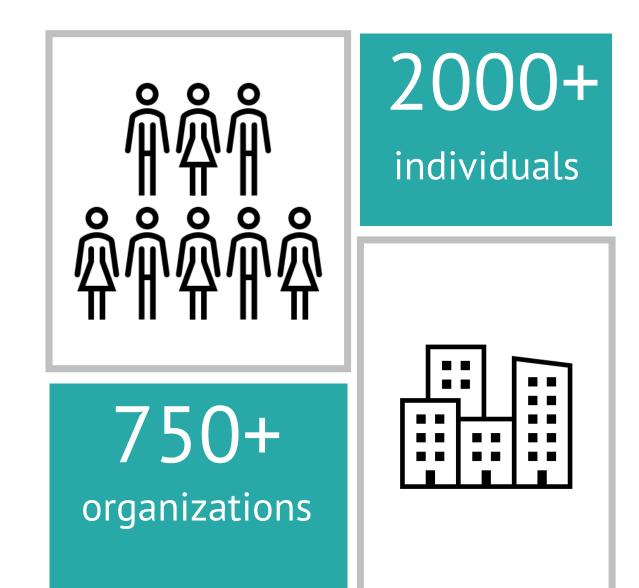


REMOTE & HYBRID TEAMS WAR ON TALENT CODE REUSE & DEVELOPER PRODUCTIVITY



InnerSource Commons At A Glance

The InnerSource Commons (ISC) is a worldwide growing community of practitioners with the goal of creating and sharing knowledge about InnerSource.





innersourcecommons.org/stories/



Let's talk about Ownership... "Ownership is the state or fact of legal possession and control over property, which may be any asset, tangible or intangible."

Wikipedia: https://en.wikipedia.org/wiki/Ownership

Code Ownership =>

- Control of Access
- Control of Use
- Control of Gains
- Accountability

Considerations:

- Group vs Individual
- No Owner
- Ownership Changes

So who owns this code? It depends!

Aspects of Code Ownership

- 1. Legal: who has legal ownership, code copyright?
- 2. Organizational: which departmental budget pays for it?
- 3. Authorship: who wrote most lines of code?
- 4. Control: who decides on the roadmap / priorities?
- 5. Maintenance: who fixes urgent issues or is in charge of support?
- 6. Feeling: This is my code, baby!

Code Ownership is good!

Right?...

Role ClarityCode QualityAccountabilityPride

Code Ownership is good!

Maybe!

Code Ownership is good! Maybe not!

Unknown Owner(s) Role Confusion No Owner(s)

Code Ownership can be...

Excessive



- Org Rigidity
- Misguided Management
- Wizard Developers

Mortgage-driven Development

Excessive Code Ownership?

Can Be Toxic!

"Toxic Code Ownership can describe a situation in which an individual or a team exhibits overly possessive or controlling behavior towards a specific part of a codebase, hindering collaboration, knowledge sharing, and overall project progress."

Source: Clare Dillon ...with the help of ChatGPT

Let's talk about...

InnerSource Patterns!

https://innersourcecommons.org/learn/patterns/

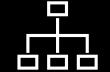
Toxic Code Ownership - Legal

Symptoms:

 Unnecessary legal constraints in place to share code across company divisions.

- InnerSource licenses
- Transfer Pricing Patterns













Toxic Code Ownership - Organizational

Symptoms:

- Duplicated effort; reinventing the wheel.
- Continuous escalations for feature requests
- Divergent tools & processes leading to inconsistent code quality

- Leadership Engagement
- Budget innovation
- Formal Comms plans
- Shared code repos & standardized tooling
- Decision making processes
- Advocacy & education
- Metrics & measurement









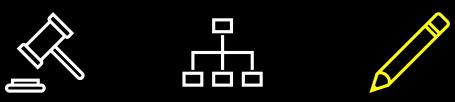




Toxic Code Ownership - Authorship

Symptoms:

- Defensiveness / unwillingness to share code
- "You wouldn't understand my code."
- "Not invented here" syndrome
- Poor documentation
- "Bus factor"



- InnerSource
 Documentation
- Policies (e.g. visible by default)
- Community management
- Mentorship
- Incentives & rewards



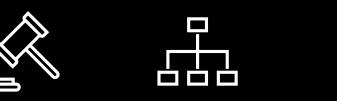




Toxic Code Ownership - Control

Symptoms:

- Gatekeeping
- Own work prioritised over other contributions
- Micro management
- InnerSource Theatre (doing as little as possible to enable collaboration)
- No repeat contributions



- InnerSource Documentation (e.g. visible roadmaps)
- Policies
- Decision making processes







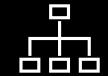
Toxic Code Ownership - Maintenance

Symptoms:

- Orphaned Code
- "You touch it, you own it"

- Ownership guidelines
- Updated Communications.md
- Focus on documentation & archives
- Continuous improvement









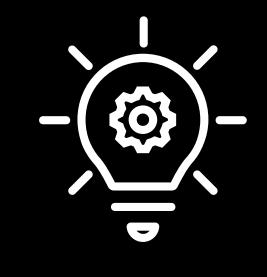




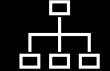
Toxic Code Ownership - Feeling

Symptoms:

- Arrogance
- Possessiveness
- Defensiveness
- Avoidance
- Aggression











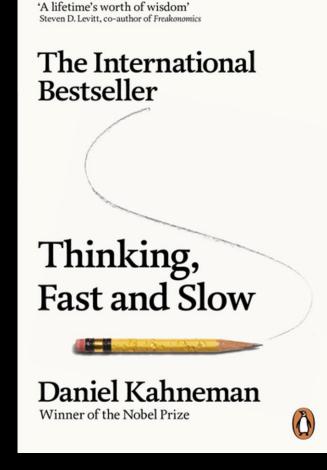




Let's talk about Feelings...

Culture Change Challenge!

From toxic ownership... ...to open collaboration!



Daniel Kahneman Author: Thinking, Fast & Slow



Human Decision Making

Two Decision Making Routes

Our Lizard Brain

Unconscious Emotion

> Very Fast Involuntary Associative

System 2 Conscious Thinking Slow Controlled Rule Following

Threat Response & Our Lizard Brain



Rational Thought Impaired!

> Also known as... Amygdala Hijack

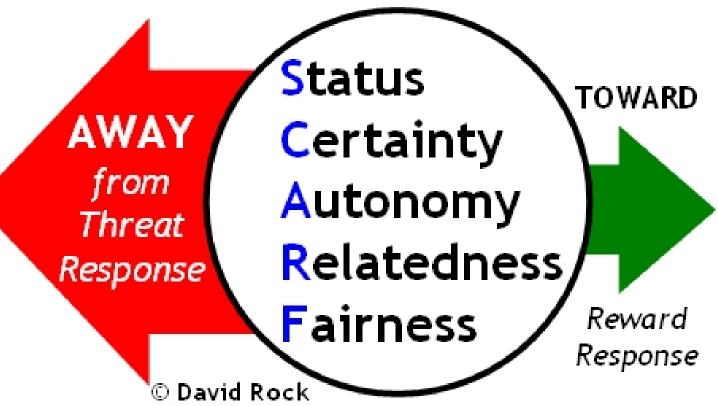
Introducing...

SCARF

David Rock's SCARF Model

From: David Rock's "SCARF: A Brain-Based Model for Collaborating With and Influencing Others."

SCARF Model of Social Threats and Rewards



Social Threat Response & Our Lizard Brain

Causes us to... Fight – Flight – Freeze

Social Threat Response



Adrenaline Cortisol



Rational Thought Impaired!

David Rock's SCARF - Social Threats

1. <u>Status</u>: perceived loss of power, respect, or social standing.

2. <u>Certainty</u>: ambiguity, unpredictability, or a lack of information.

3. <u>Autonomy</u>: loss of control or a sense of being forced to do something against one's will.

4. <u>Relatedness</u>: social rejection, exclusion, or criticism.

5. Fairness: perceived unfair treatment, bias, or injustice

What we say....

Let's openly collaborate with InnerSource



What we say vs. what they may think & feel....

Let's openly collaborate with InnerSource



Status: This is my code. I create it. Are others going to take credit for it now?

Certainty: How will this all work? How will I know who will contribute? How will things get prioritised?

Autonomy: How am I going to control things? Why am I being forced to change how I work?

Relatedness: What if people think I am bad at this? Or what if they criticise my code?

Fairness: Who's going to take credit for my code now? How will I prove my worth in promo conversations?

Lizard Brain Trigger Alert!!!



Rational Thought Impaired!

Fight

Flight

Freeze

- Pushback
- Resistance
- Aggression
- Passive
 Aggression
- Defensiveness

- Avoidance
- Disinterest
- Expressions of uncertainty
- Blocking Actions

- Procrastination
- Inaction
- Delays in decisions
- Analysis paralysis

REMEMBER...

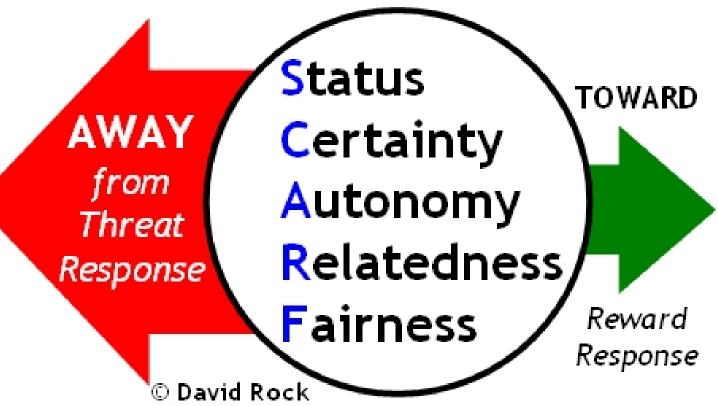
- **Reactions are involuntary:** Rational arguments don't work.
- It can last: Brain hijack can last minutes or hours.
- Minimize threats: Acknowledge & work to address concerns.

The SCARF Opportunity!

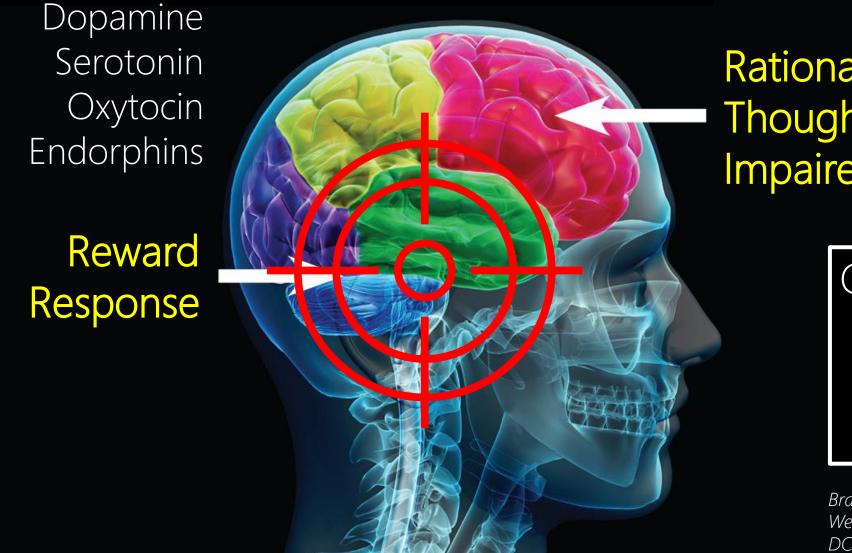
David Rock's SCARF Model

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SCARF Model of Social Threats and Rewards



Reward Response & Our Lizard Brain



Rational Thought Impaired!



INNERSOURCE PATTERNS & SCARF

Let's openly collaborate with InnerSource



Status: Public recognition & praise, highlight contributions & expertise. On social media, in company newsletters, or at team meetings; outside-in.

Certainty: Leadership buy-in; clear guidelines & support; training and mentoring; resources, templates or legal guidance.

Autonomy: Give opportunities to make decisions about the process; co-create process docs. Clarify decision making frameworks. Watch out for blanket enforcements!

Relatedness: Connect with others who share their interests & expertise; in online forums, hackathons and physical events.

Fairness: Provide fair compensation & recognition, including opportunities for promotion, performance bonuses etc. Shift what is rewarded. Watch out for metric gaming!





- 1. Code Ownership can mean many things! Clarity necessary.
- 2. Excessive Code Ownership can be toxic! Can inhibit collaboration.
- 3. Feelings can overwhelm! Our Lizard brains are powerful.
- 4. Use SCARF! Minimize threats! Maximize rewards!



Join us at InnerSource Commons!

www.innersourcecommons.org





Willem Jiano



(ebam)









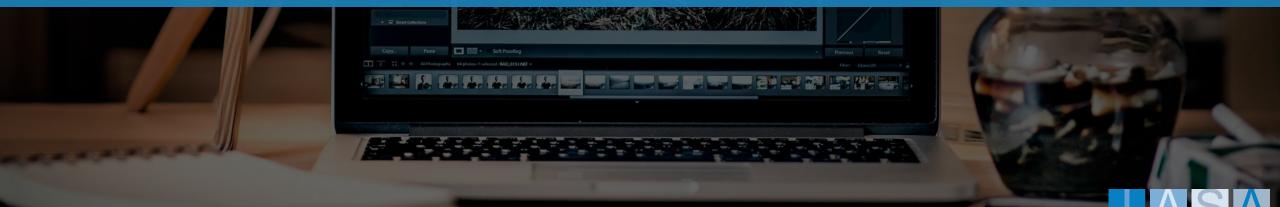








For further information, please contactus@iasaglobal.org



An Association for All IT

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