Best Practices of Agile teams

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v2.0.3

Today:

Which practices separate great Scrum teams from others?

Top 9 things the best Scrum teams get right ams get right timelices separate great every timelices separate great strum teams from the series of the series of

Practicalities

A barely organized list of good things to do.

Not actually a Scrum talk; it's just common.

Questions welcome.

QR-code for slides at the end

Who am I



Jakob Buis

Developer

Team lead

Engineering Manager

Management consultant

Professional team builder

Should you listen to me?

Yes, because:

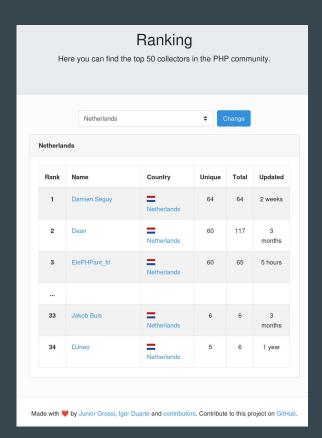
Never been fired

Herd of 6 elePHPants

Worked with 15+ Scrum teams in various companies & industries

As a developer, manager and Scrum Master

Professional Scrum Master II



elephpant.me

Should you listen to me?

Yes, because:

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As a developer, manager and Scrum Master

Professional Scrum Master II

No, because:

I fuck up, a lot

Worked with 16 teams

Mostly in smaller companies (< 300 people, < 30 engineers)

Most of my ideas come from other people (links included!)

Understanding Scrum

Daily Scrum

Definition of Done

Developer

Empiricism

Increment

Product Backlog

Product Goal

Product Owner

Sprint

Sprint Backlog

Sprint Goal

Sprint Planning

Sprint Retrospective

Sprint Review

Technical debt

Experiment beyond Scrum not before Scrum

THE SCRUM Police



Daily Scrum on Mon & Wed Demo work not completed Retrospective every 3rd sprint

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Scrum doesn't work for us

Read the Scrum Guide

Read a book

Take a course

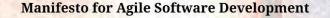


Fixing Your Scrum



Experiment beyond Scrum not before Scrum

Working, tested software every sprint



We are uncovering better ways of developing software by doing it and helping others do it. Through this work we have come to value:

Individuals and interactions over processes and tools
Working software over comprehensive documentation
Customer collaboration over contract negotiation
Responding to change over following a plan

That is, while there is value in the items on the right, we value the items on the left more.

Kent Beck Mike Beedle Arie van Bennekum Alistair Cockburn Ward Cunningham Martin Fowler James Grenning Jim Highsmith Andrew Hunt Ron Jeffries Jon Kern Brian Marick

Robert C. Martin Steve Mellor Ken Schwaber Jeff Sutherland Dave Thomas

this declaration may be freely copied in any form

Twelve Principles of Agile Software

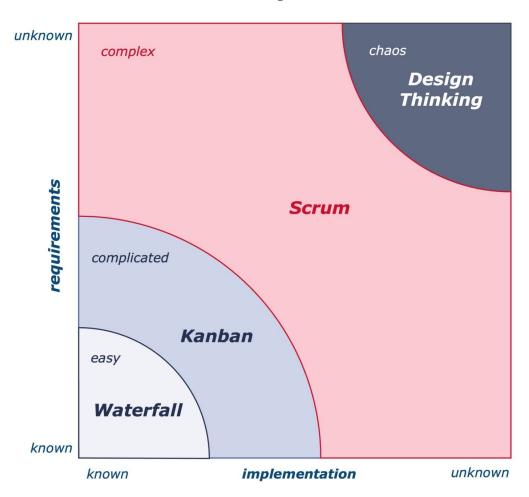
View Signatories

About the Manifesto

Principle 1:

Our highest priority is to satisfy the customer through early and continuous delivery of valuable software.

Stacey Matrix



Principle 7:

Working software is the primary measure of progress.

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Working software is the primary measure of progress.



SPRINT REVIEW





Get really good at vertical slicing

Start here: https://www.reddit.com/r/agile/comments/1btxpzd

Get really good at vertical slicing

Start here: https://www.reddit.com/r/agile/comments/lbtxpzd

Erase all dependencies

- decoupling architecture
- team changes (#team-topologies)
- incur (some) technical debt
- feature flags

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Erase all dependencies

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Be smart about risks, avoid big-design up-front

Working, tested software every sprint

Know how your customers are using the product

SPRINT REVIEW





There is nothing so useless as doing with great efficiency that which should not be done at all.

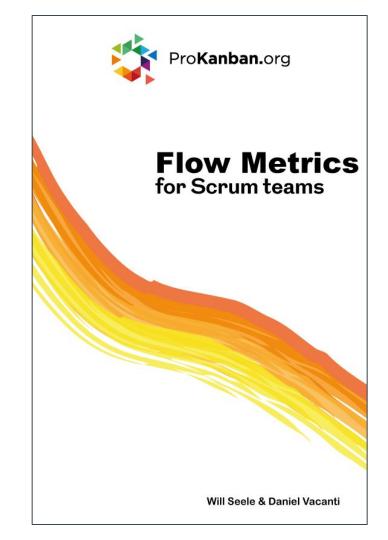
Peter Drucker

To do: tracking

feature_foo_clicks		
id	user_id	timestamp
1	1	2025-03-10T14:30:10Z
2	2	2025-03-10T14:31:23Z
3	1	2025-03-11T09:16:00Z
4	3	2025-03-12T04:10:59Z

To do: visualisation

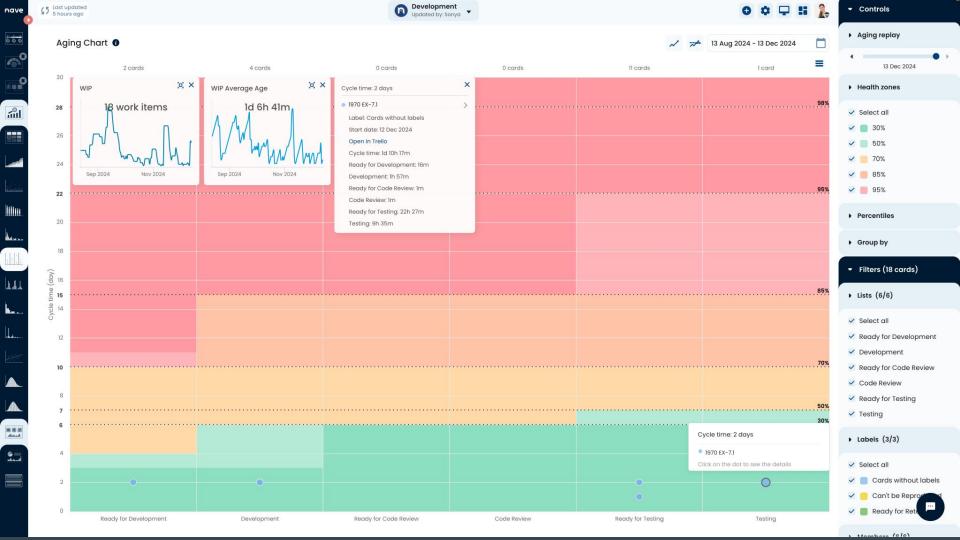
- Options (Backlog)
- 2. Discovery
- 3. Building
 - a. Not started
 - b. Coding
 - c. Code Review
 - d. Ready for release
- 4. Validating
- 5. Done



Know how your customers are using the product

Do all work on the board





Create item: [title] + [assigned you] + [in progress]

Consider skipping ticket when:

- doing it right now
- takes < 10 minutes (and you're 99% certain)
- is a repeating action (automate it!)

Bias to having a single board per team.

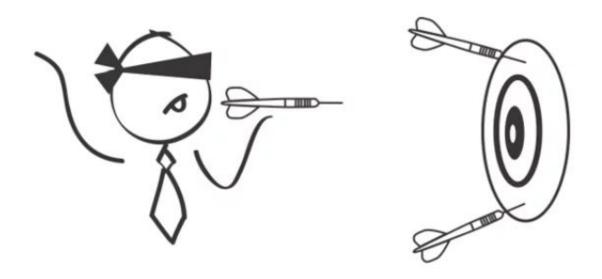
Items <u>never</u> go back: stuck is preferable.

Do all work on the board

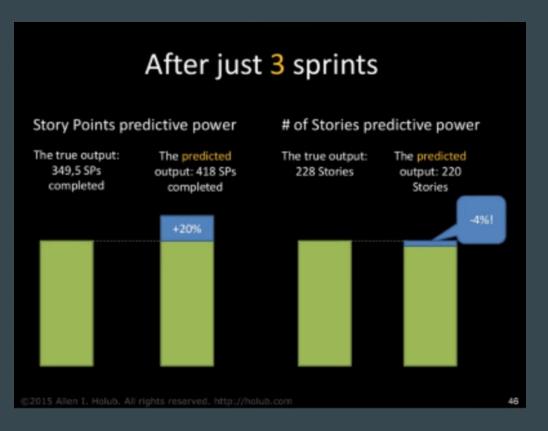
All estimates are bullshit

Estimation

The fine art of guessing



#NoEstimates



#NoEstimates (Allen Holub)
https://www.youtube.com/watch?v=QVBInCTu9Ms

```
Good:
```

```
same-sizing everything: "I story point" and "too big" <a href="https://mdalmijn.com/p/roman-estimation-a-simple-easy-and">https://mdalmijn.com/p/roman-estimation-a-simple-easy-and</a>
```

Better:

use data

Monte Carlo simulation

Record throughput per day:

0 7 2 6 6 3 7 2 9 1 13 0 0 2

Monte Carlo simulation

Record throughput per day:

0 7 2 6 6 3 7 2 9 1 13 0 0 2

Sample next 7 days:

2 0 2 7 0 <u>3 2</u>

Monte Carlo simulation

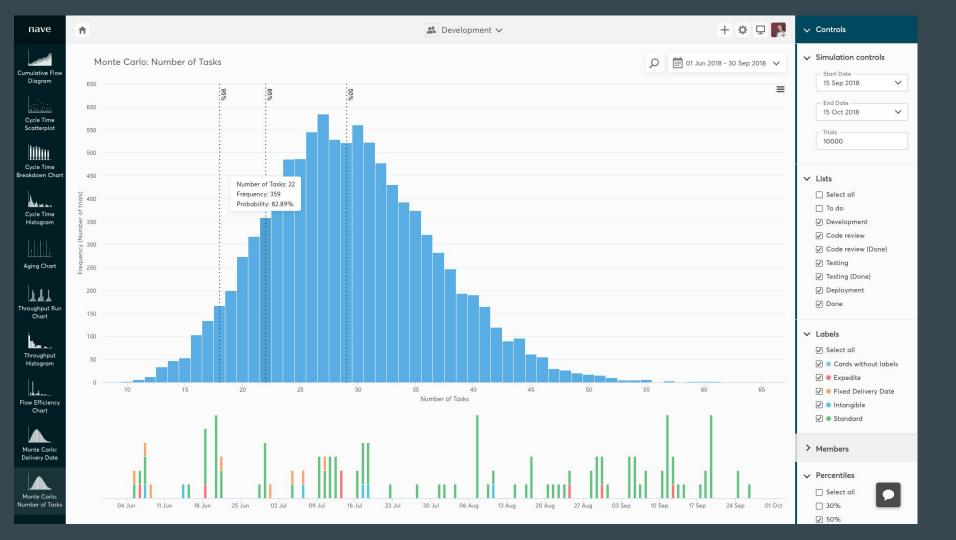
Record throughput per day:

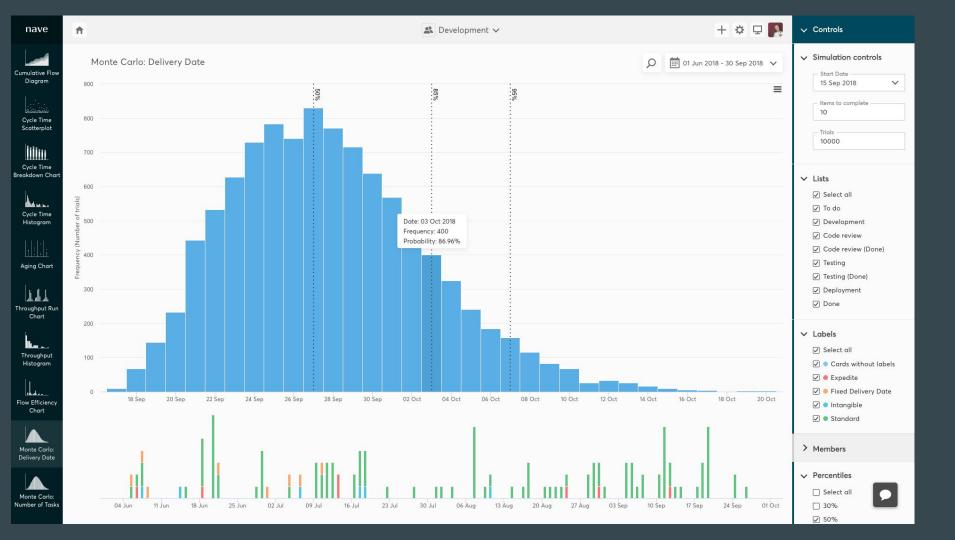
 $0 \quad 7 \quad 2 \quad 6 \quad 6 \quad 3 \quad 7 \quad 2 \quad 9 \quad 1 \quad 13 \quad 0 \quad 0 \quad 2$

Sample next 7 days:

2 0 2 7 0 3 2 = 16

Next week, we'll finish 16 stories.





All estimates are bullshit

Solve business problems

MANDATE LEVELS

@johncutlefish

Effort is happening at all of these levels concurrently. It is all connected (explicitly, and often implicitly).

		f****		***
Α	Build exactly this [to a predetermined specification]			
В	Build something that does [specific behavior, input-output, interaction]		Developers and Designers	
С	Build something that lets a segment of customers complete [some task, activity, goal]			
D	Solve this [more open-ended customer problem]		Product Owner	IT
Е	Explore the challenges of, and Improve the experience for, [segment of users/customers]			"The Business"
F	Increase/decrease [metric] known to influence a specific business outcome		Product Manager	
G	Explore various potential leverage points and run experiments to influence [specific business outcome]			
Н	Directly generate [short-term business outcome]		. GM	
I	Generate [long-term business outcome]			



Don't start here

Working software in the customers hands

Build a prototype

Get users in the room while designing

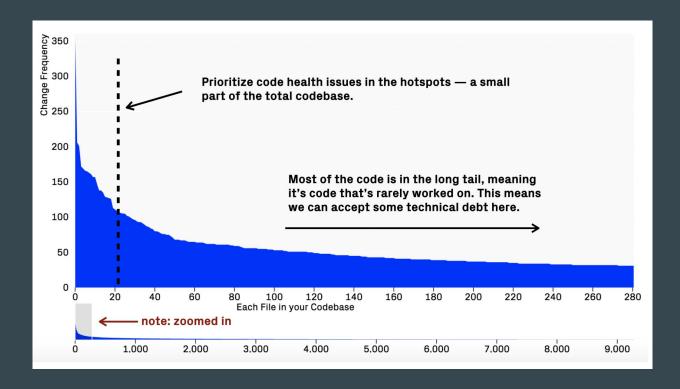
Solve business problems

Deal with technical debt



CONSIST





https://www.getunleash.io/blog/manage-technical-debt-measure-the-impact-and-prioritize-improvements-quided-by-development-data

Minimum:

- l. error monitoring service (sentry)
- 2. static analysis (psalm, phpstan)
- 3. existing coding standard enforced by linter (pint)

Fix bugs

Deal with technical debt

Have a strong Definition of Done



Absolute

Automated

Agreed with PO

Have a strong Definition of Done

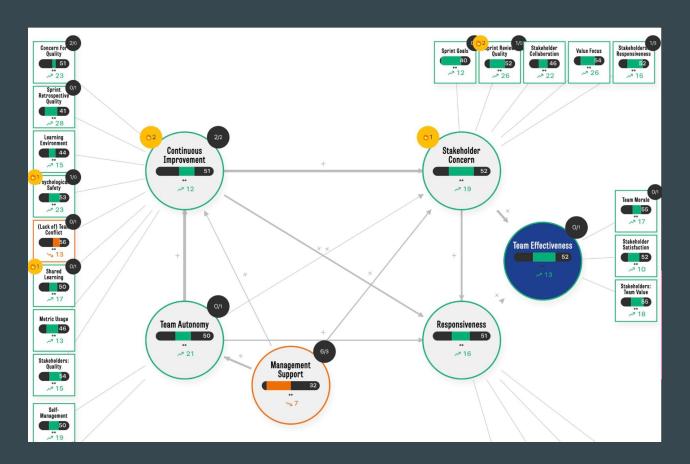
Make retrospectives effective

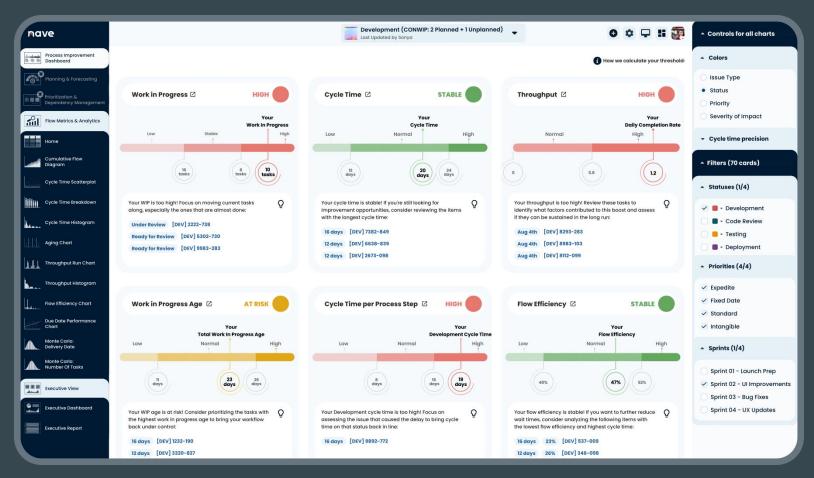




Escalate what you cannot solve

Data-driven decision making





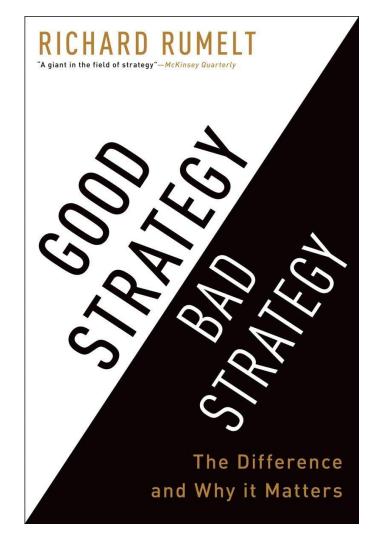
Make retrospectives effective

- 1. Experiment beyond Scrum, not before Scrum
- 2. Working tested software, every sprint.
- 3. Know how your customers are using the product
- 4. Do all work on the board
- 5. All estimation is bullshit
- 6. Solve business problems
- 7. Deal with technical debt
- 8. Having a strong Definition of Done
- 9. Make retrospectives effective

How to get started

"A giant in the field of strategy"—McKinsey Quarterly The Difference and Why it Matters

The kernel of a strategy contains three elements: a diagnosis, a guiding policy, and coherent action.



That's all



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Slides Feedback Assessment

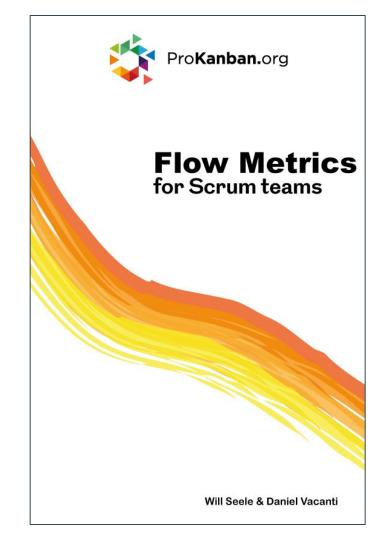
Bonus content

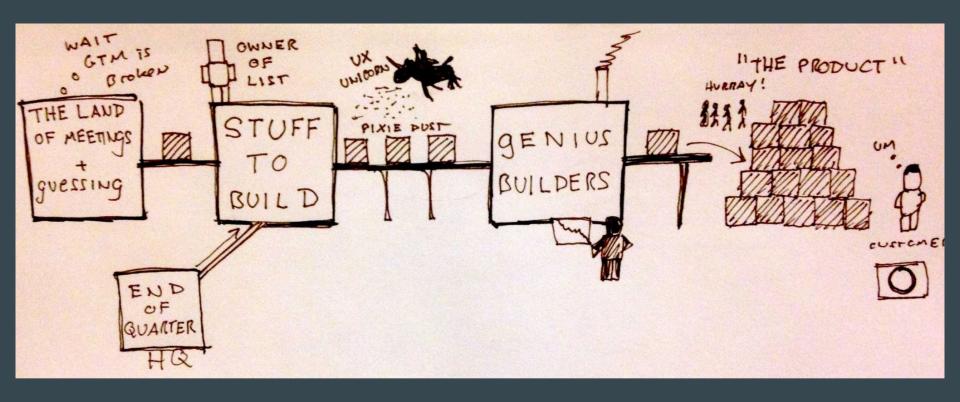
Flow Metrics for Scrum teams

РВІ	Started	Finished		
1	2025-03-01	2025-03-10		
2	2025-02-16	2025-03-18		
3	2025-03-17			
4				

Measure

- WIP
- Cycle time
- Work item age
- Throughput





Unclear goals. The sprint goal !== the work.

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You almost certainly have a product management problem.

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Read this: https://kellanem.com/notes/faqs-from-coaching on "the team isn't working hard enough"

Unclear goals. The sprint goal !== the work.

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Run away.

You are not smarter than the customer



To do

... don't do that

Respect the customer

Regular contact helps

DORA metrics

Key DORA Metrics



Deployment Frequency

The number of times per day that a release is deployed into production.



Lead Time for Changes

Total time between the initiation of a feature request to the delivery of that feature to a customer.



Mean Time to Recovery (MTTR)

Average time it takes the team to restore service when a failure/outage occurs in production.



Change Failure Rate

Percentage of changes that resulted in degraded services, like the service impairment or outage, and need to be fixed.

Software delivery performance metric	Elite	High	Medium	Low
Deployment frequency For the primary application or service you work on, how often does your organization deploy code to production or release it to end users?	On-demand (multiple deploys per day)	Between once per week and once per month	Between once per month and once every 6 months	Fewer than once per six months
Lead time for changes For the primary application or service you work on, what is your lead time for changes (i.e., how long does it take to go from code committed to code successfully running improduction)?	Less than one hour	Between one day and one week	Between one month and six months	More than six months
Time to restore service For the primary application or service you work on, how long does it generally take to restore service when a service incident or a defect that impacts users occurs e.g., unplanned outage or service impairment)?	Less than one hour	Less than one day	Between one day and one week	More than six months
Change failure rate For the primary application or service you work on, what percentage of changes to production or released to users result in degraded service (e.g., lead to service impairment or service outage) and subsequently require remediation (e.g., require a hotfix, rollback, fix forward, patch)?	0%-15%	16%-30%	16%-30%	16%-30%