Looking at your delivery through data lenses

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product-minded software developer



solutions architect @ Kitopi consultant / trainer @ Bottega IT Minds independent consultant

ex tech lead @ Pragmatic Coders

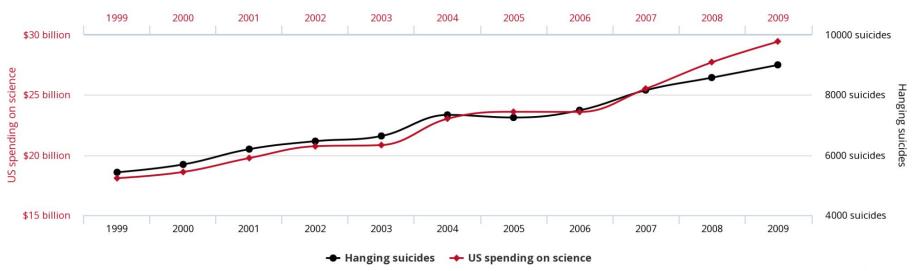






U USER STORY/EDIC U FEATURE U PRODUCT * PROBLEMS SOLUED * NEW POSSIBILITIES CUSTOMERS ADOPT OR CHANGE BEHAVIORS BOTTOM L'INE/ NET RESULT FOR THE ORG (\$, FINANCIAL PATIOS)

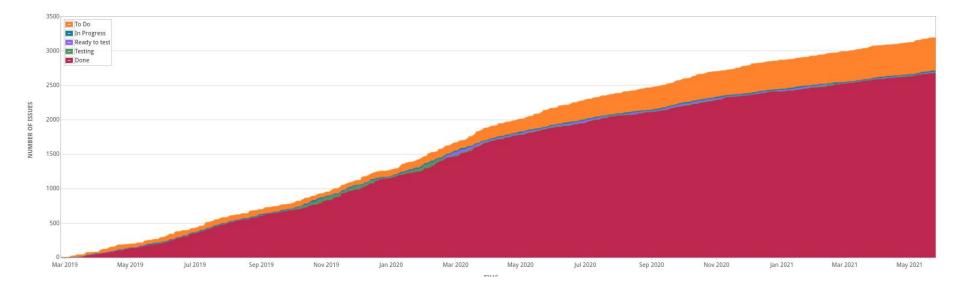
US spending on science, space, and technology correlates with Suicides by hanging, strangulation and suffocation



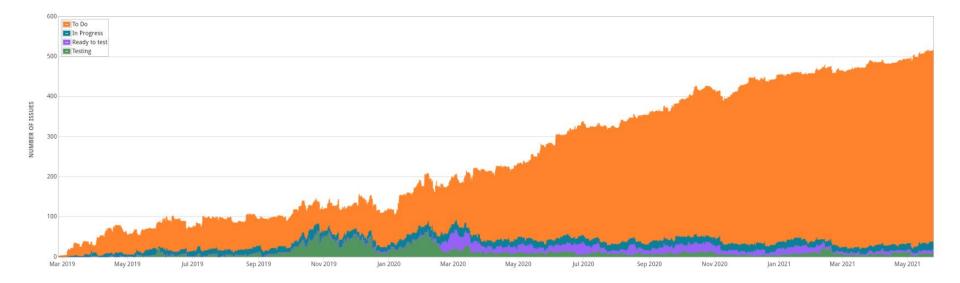
tylervigen.com



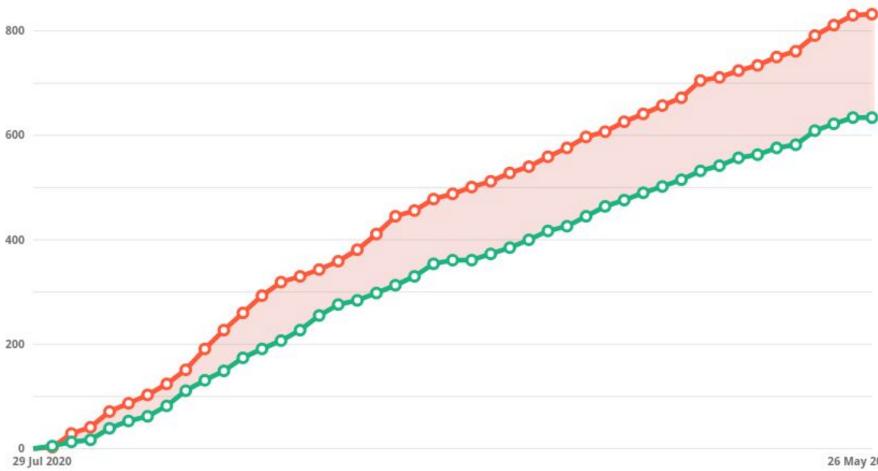
cumulative flow diagram



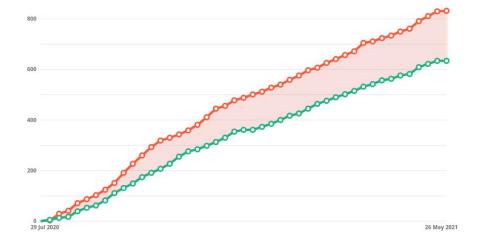
cumulative flow diagram

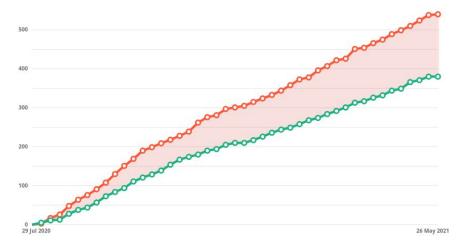


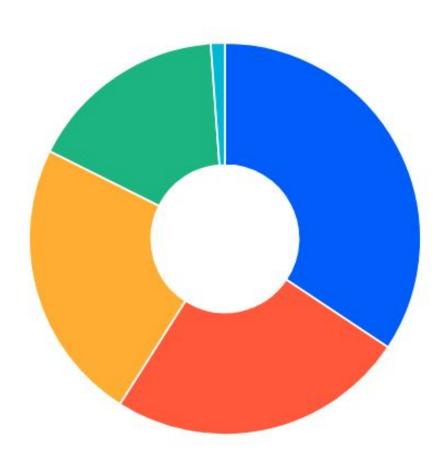
created vs. resolved



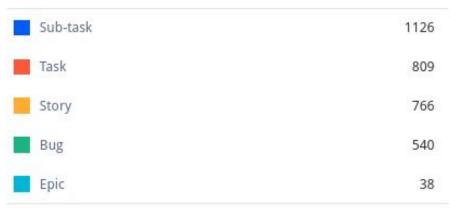
created vs. resolved



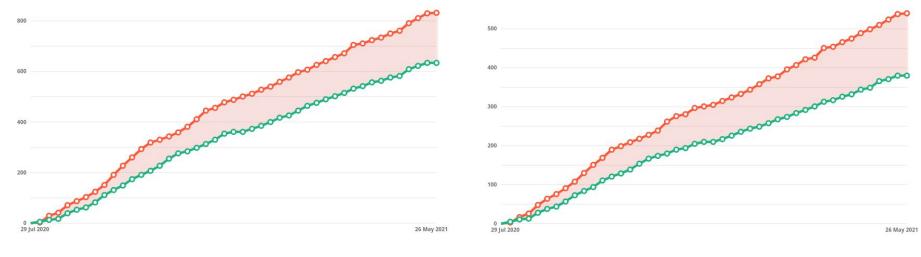




Issue Type Total Issues: 3279



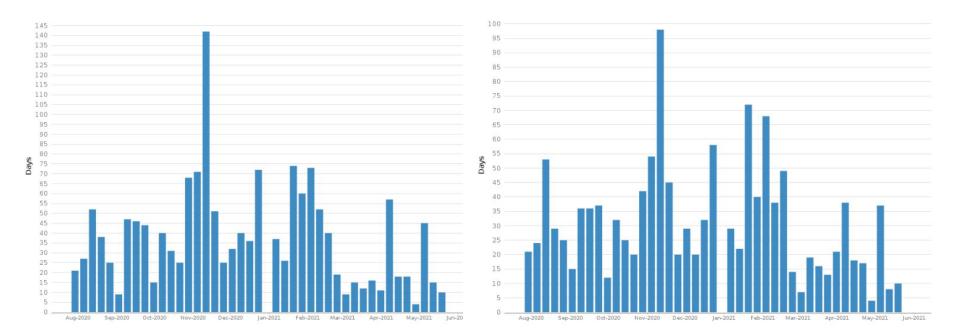
created vs. resolved



with sub-tasks and epics

sub-tasks and epics excluded

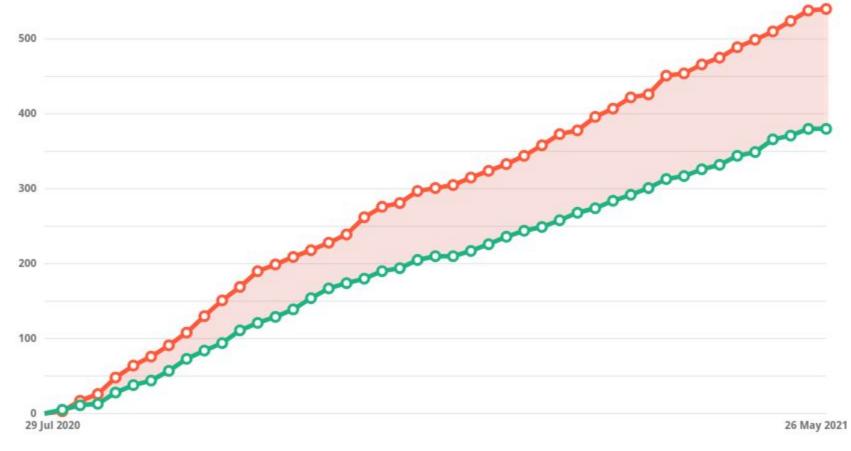
resolution time



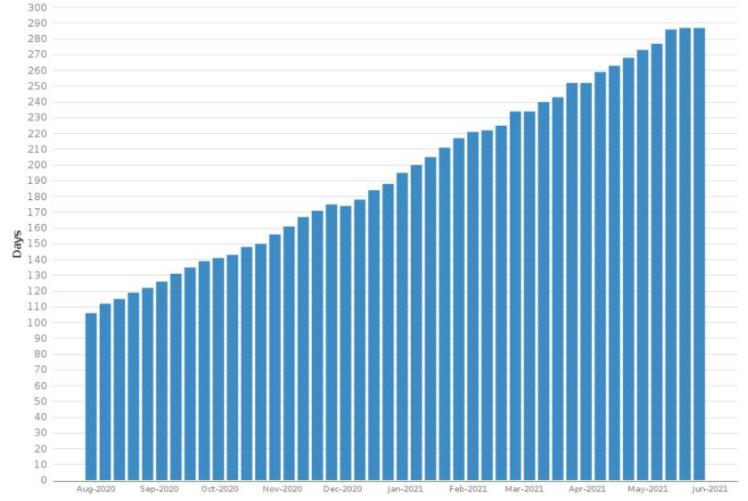
with sub-tasks and epics

sub-tasks and epics excluded

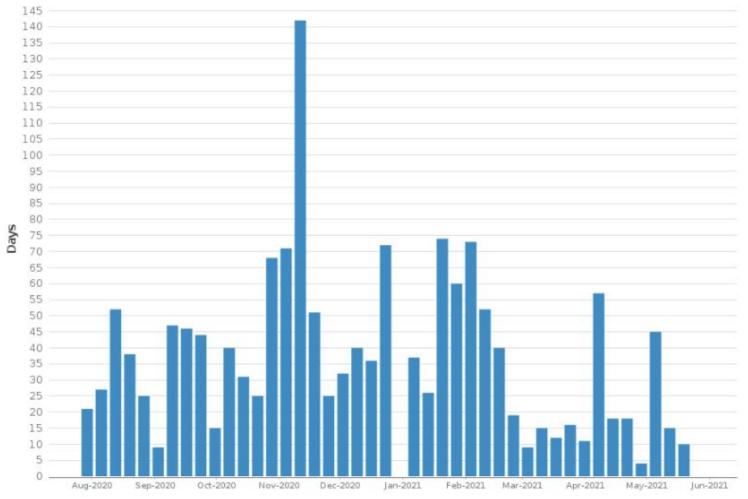
created vs. resolved



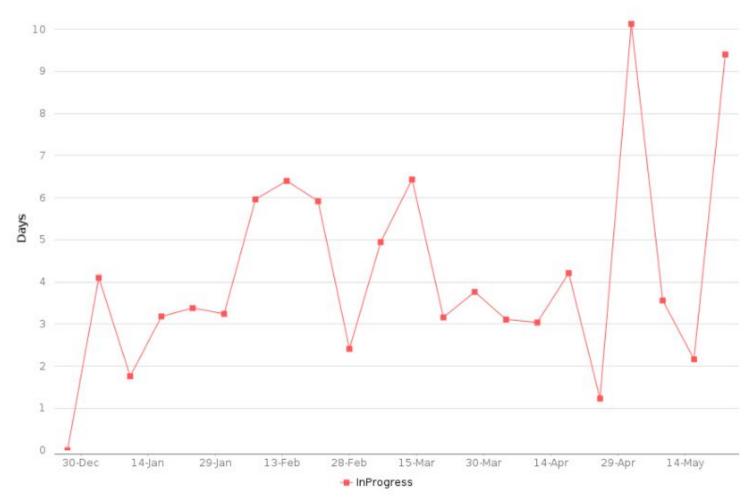
average age



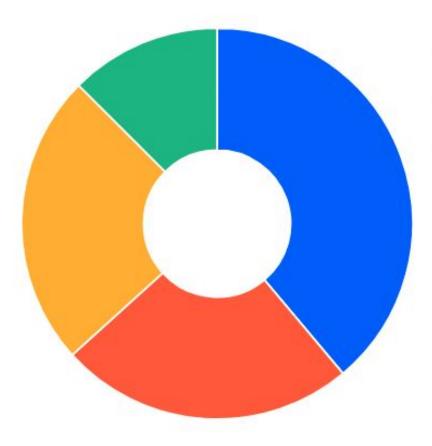
resolution time



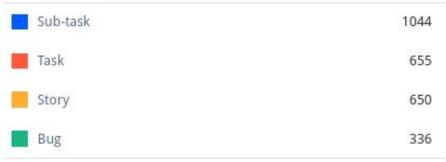
average days InProgress

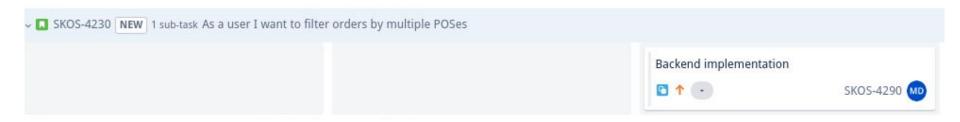


issue types for completed items



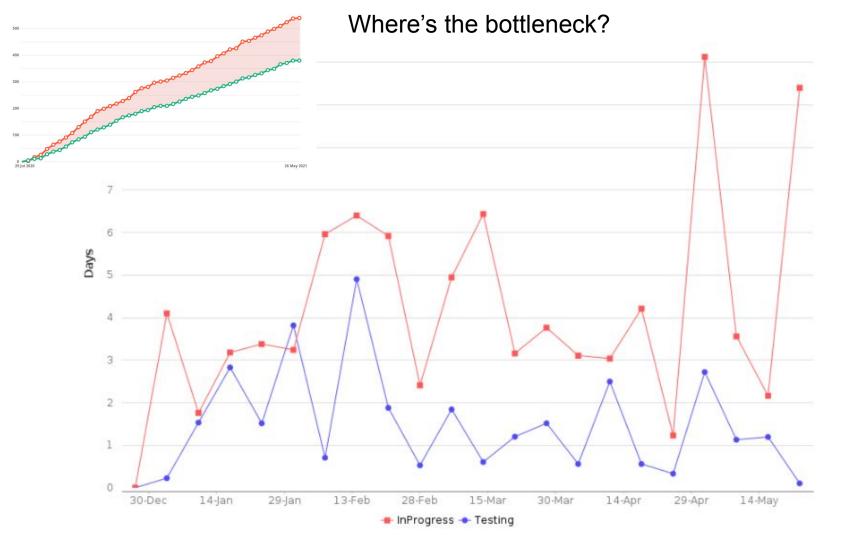
Issue Type Total Issues: 2685





Fine slicing of stories allows you to get feedback and fix mistakes faster, postpone less valuable work, [...] better mitigate risks and improve performance.







To access the chart, navigate to a group's sidebar and select Analytics > Productivity Analytics.

The following metrics and visualizations are available on a project or group level - currently only covering merged merge requests:

- Histogram showing the number of merge request that took a specified number of days to merge after creation. Select a specific column to filter down subsequent charts.
- Histogram showing a breakdown of the time taken (in hours) to merge a merge request. The following intervals are available:
 - Time from first commit to first comment.
 - Time from first comment until last commit.
 - Time from last commit to merge.
- Histogram showing the size or complexity of a merge request, using the following:
 - Number of commits per merge request.
 - Number of lines of code per commit.
 - Number of files touched.
- Scatterplot showing all MRs merged on a certain date, together with the days it took to complete the action and a 30 day rolling median.
- Table showing the list of merge requests with their respective time duration metrics.
 - Users can sort by any of the above metrics.

| Analytics | ~ |
|-----------------|---|
| Instance-level | ~ |
| DevOps Report | |
| Usage Trends | |
| Group-level | ~ |
| Contribution | |
| DevOps Adoption | |
| Insights | |
| Issue | |
| Productivity | |
| Repository | |
| Value Stream | |
| Project-level | ~ |
| CI/CD | |
| Code Review | |
| Insights | |
| Issue | |
| Merge request | |
| Repository | |
| Value Stream | |
| | |



Image: Analytics CI/CD Repository Value Stream

Time

| | Last 30 days 🗸 | |
|----|----------------|--|
| | | |
| | Median | |
| ew | about 11 hours | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |



Commits to service ABC from last 30 days:

- 54% from XYZ team (that is not responsible for service ABC)
- 31% from the team that is responsible for service ABC
- 15% from other teams

https://github.com/arzzen/git-quick-stats

Generate:

- 1) Contribution stats (by author)
- 2) Contribution stats (by author) on a specific branch
- Git changelogs (last 10 days)
- 4) Git changelogs by author
- 5) My daily status
- 6) Output daily stats by branch in CSV format
- 7) Save git log output in JSON format

List:

- Branch tree view (last 10)
- All branches (sorted by most recent commit)
- 10) All contributors (sorted by name)
- 11) Git commits per author
- 12) Git commits per date
- 13) Git commits per month
- 14) Git commits per weekday
- 15) Git commits per hour
- 16) Git commits by author per hour

Suggest:

17) Code reviewers (based on git history)

Please enter a menu option or press Enter to exit.

| GitLab CI/CD | 0 |
|--------------|-----|
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[skip ci] DEPLOY dev feat: #KDSDES-814 Imp [skip ci] DEPLOY dev feat: #KDSDES-836 Val skip ci] DEPLOY dev 5b chore: Update README.m [skip ci] DEPLOY dev 62 origin/refactor/reduce ˈskip ci] DEPLOY dev 6f efactor: #DH-541 remov [skip ci] DEPLOY dev 83 eat: #KDSDES-878 Speci skip ci] DEPLOY dev 08 eat: #SKOS-4238 update skip ci] DEPLOY dev aa origin/feat/reduce-aut [skip ci] DEPLOY dev 48 origin/test/upgrade-te

```
commit 6c4cceaf21dbd9ce90554405eea780e6d0c31c22
Author:
AuthorDate: Tue May 25 09:58:18 2021 +0000
Commit:
CommitDate: Tue May 25 09:58:18 2021 +0000
    [skip ci] DEPLOY dev f2795d6799480b0df5048d7fad759ddcd97779ff
 deployment/dev/values.yaml | 2 +-
 1 file changed, 1 insertion(+), 1 deletion(-)
diff --git a/deployment/dev/values.yaml b/deployment/dev/values.yaml
--- a/deployment/dev/values.yaml
+++ b/deployment/dev/values.yaml
2@ -2,7 +2,7 @@ microservice:
  deployment:
     image:
       repository:
       tag: b5273a42c2bbbcfb9e4f735e6bd5b76f120f528
       tag: f2795d6799480b0df5048d7fad759ddcd97779ff
     envSettings:
```

export _GIT_PATHSPEC=':!deployment' export _GIT_SINCE="2021-01-01"

| Git | commits | by weekday: | |
|-----|---------|-------------|----|
| | day | sum | 54 |
| | Mon | 111 | |
| | Tue | 158 | |
| | Wed | 170 | |
| | Thu | 162 | |
| | Fri | 148 | |
| | Sat | 1 | |
| | Sun | Θ | |
| | | | |

| author name <author email=""></author> | | | |
|--|---------|----------------|----------|
| insertions: | 2472 | (8%) | |
| deletions: | 5558 | (23%) | |
| files: | 499 | (19%) | |
| commits: | 98 | (27%) | |
| lines changed: | 8030 | (14%) | |
| first commit: | Fri Jan | 15 12:43:42 20 | 21 +0100 |
| last commit: | Mon May | 24 14:28:06 20 | 21 +0200 |

| insertions: | 1841 |
|-------------|------|
| deletions: | 871 |
| files: | 169 |
| commits: | 9 |

jan.kowalski <jan.kowalski@acme.com> Jan Kowalski <jan.kowalski@acme.com> Jan Kowalski <jan.kowalski@gmail.com> From January to May 2021 only 48% of commits made to service ABC were pushed by the team responsible for service ABC

From January to May 2021 only 48% of commits made to service ABC were pushed by the team responsible for service ABC

What impact does it have on delivery capabilities of the team responsible for service ABC?

Service ABC is a centerpiece of the platform, vast majority of services is dependent on ABC

Service ABC is a centerpiece of the platform,

vast majority of services is dependant on ABC

What impact does it have on delivery capabilities of other teams?

Service ABC is a centerpiece of the platform,

vast majority of services is dependent on ABC

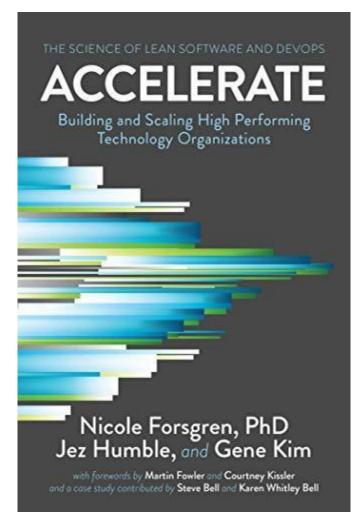
What impact does it have on the delivery capabilities of organization?

Service ABC is a centerpiece of the platform,

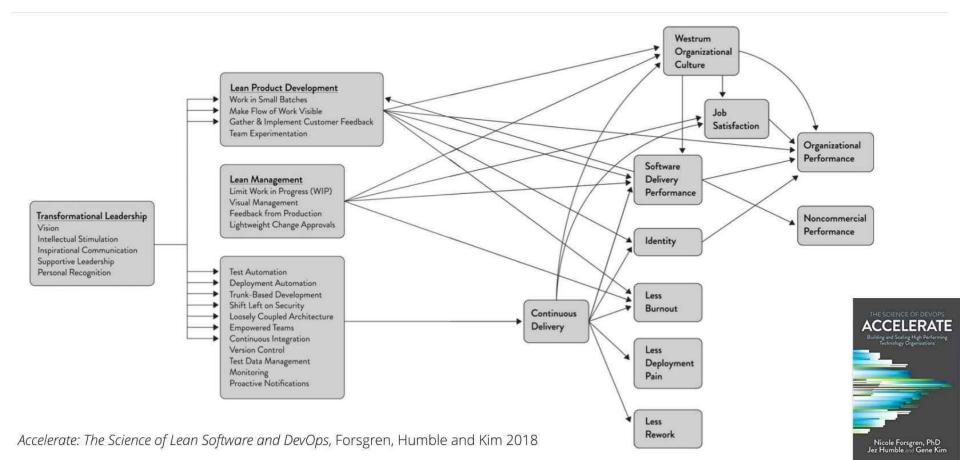
vast majority of services is dependant on ABC

How many services should the team responsible for service ABC be responsible for?

Team responsible for service ABC is also responsible for 7 more services



capabilities that drive high performance



- From January to May 2021 in service ABC
- a developer whose commit frequency is
- the median of commits per day per backend developer
- pushed 0.7 commits per day
- on average
- adding 189 lines per commit

Developers that work in smaller batches

in general push commits more often

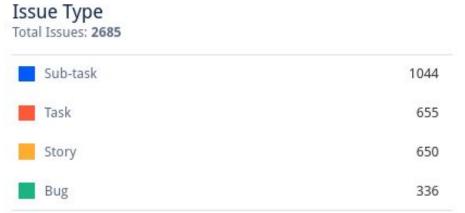
=>

Developers that push commits less often tend to work in large batches

- From January to May 2021 in service ABC
- a developer that pushed commits the most often
- committed 4 times more often
- adding 5 times less lines
- changing half the files
- per commit
- than the developer that pushed commits the least often

issue types for completed items





Working in small batches predicts software delivery performance

In Analytics

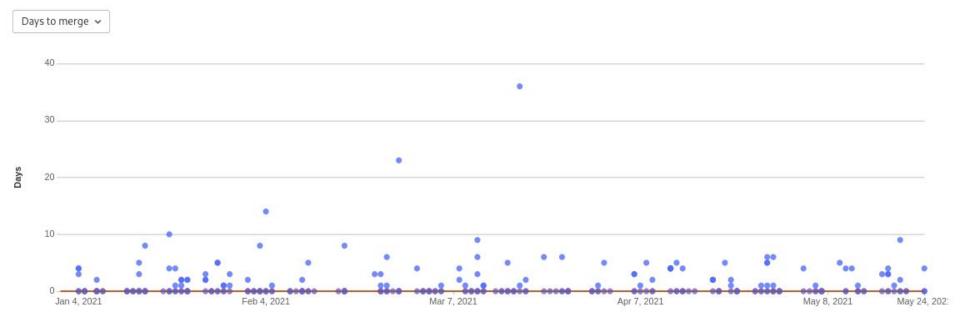
Contribution

Issue

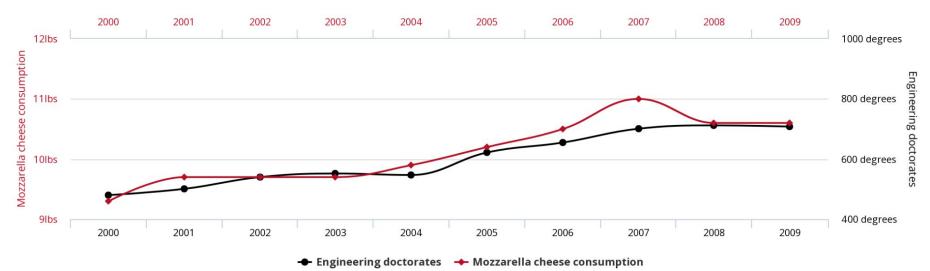
Productivity

Repositories

Value Stream



Per capita consumption of mozzarella cheese correlates with Civil engineering doctorates awarded



tylervigen.com



