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	DORA	Signal &		
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	SPACE	Future	l	
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Hi! I'm Nicole

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DevOps was the original hipster for making work more productive *and* sustainable

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DevOps was the original hipster for making work more productive *and* sustainable

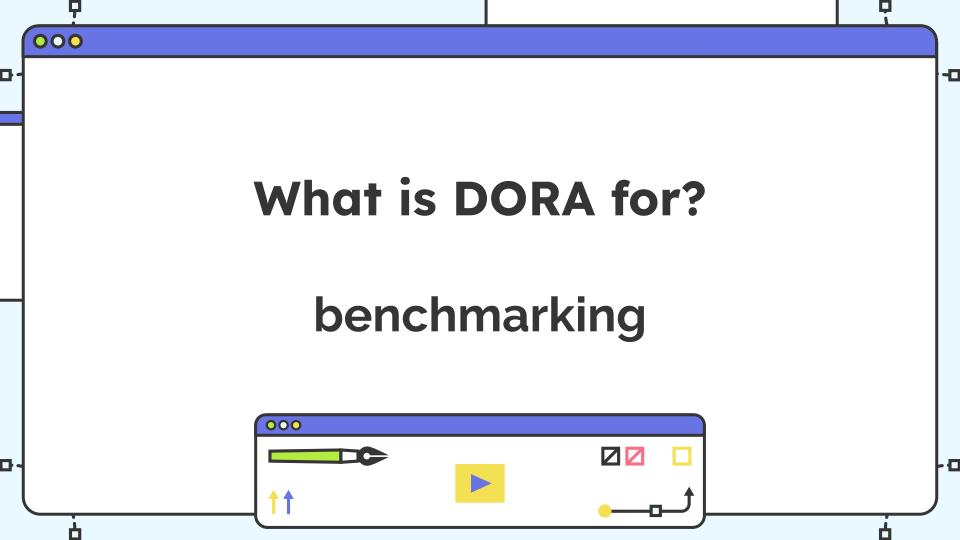
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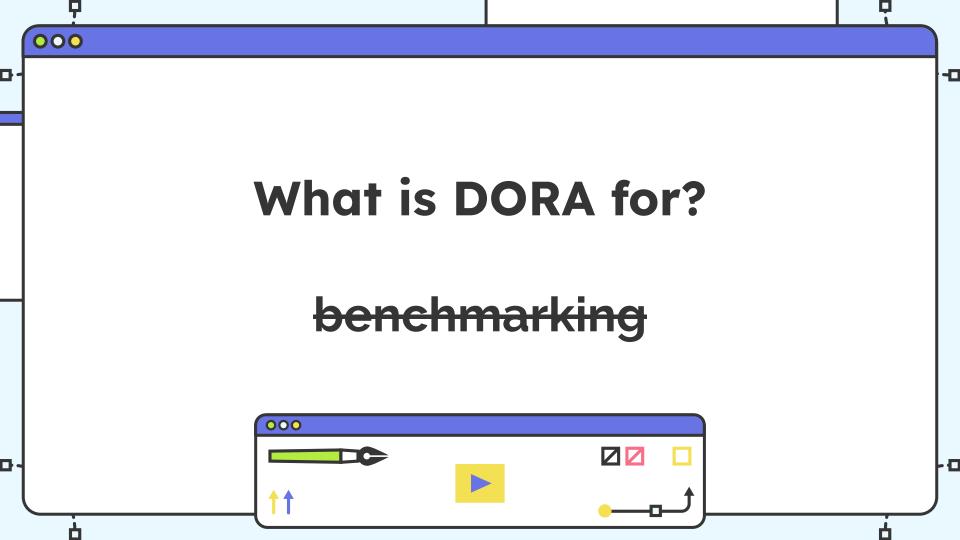
DORA and SPACE help us understand, measure, and improve our productivity and our well-being.



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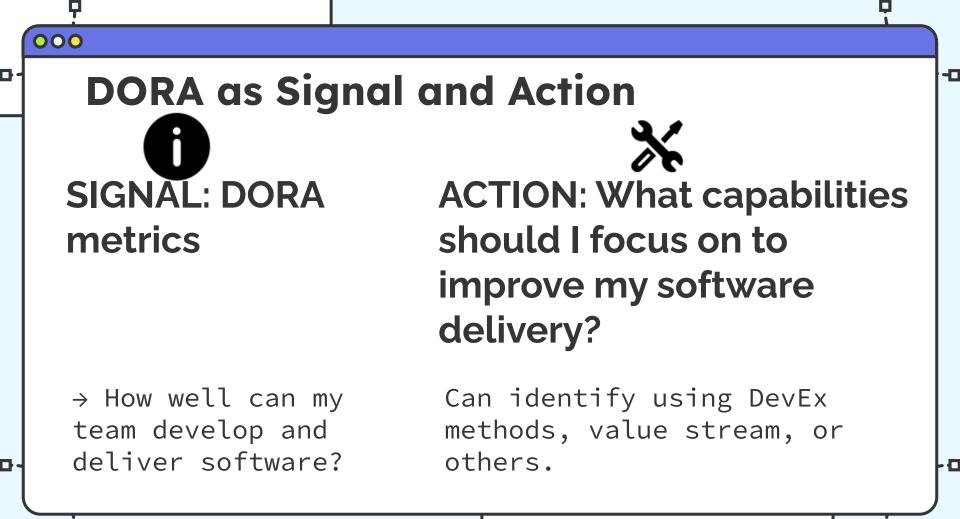




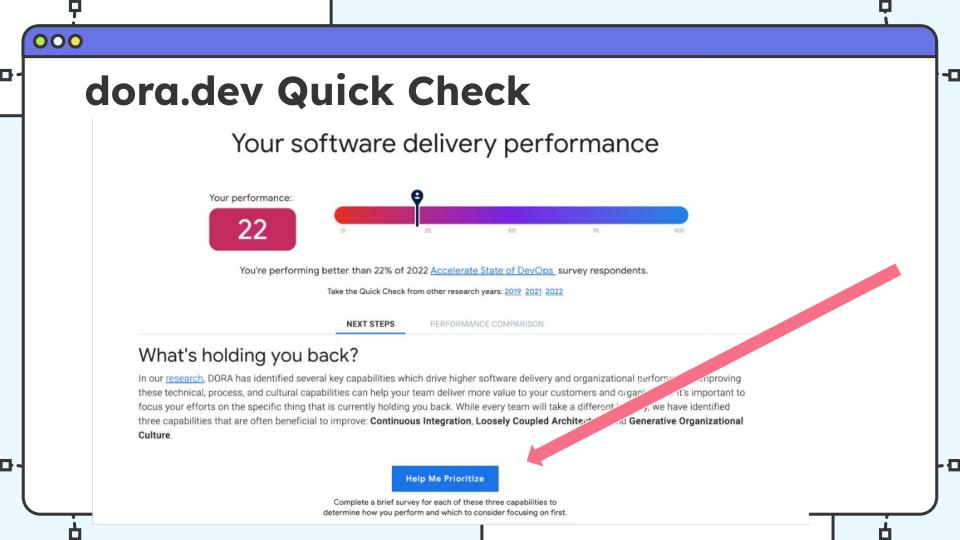
000 What is DORA for? framework that helps us: improve outcomes measure performance identify capabilities for improvement (and provide evaluative criteria) 000

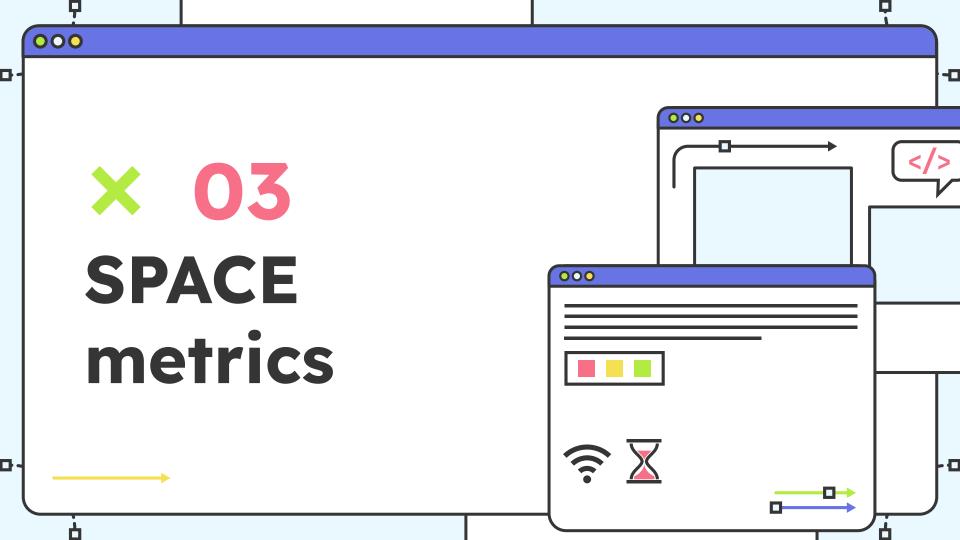




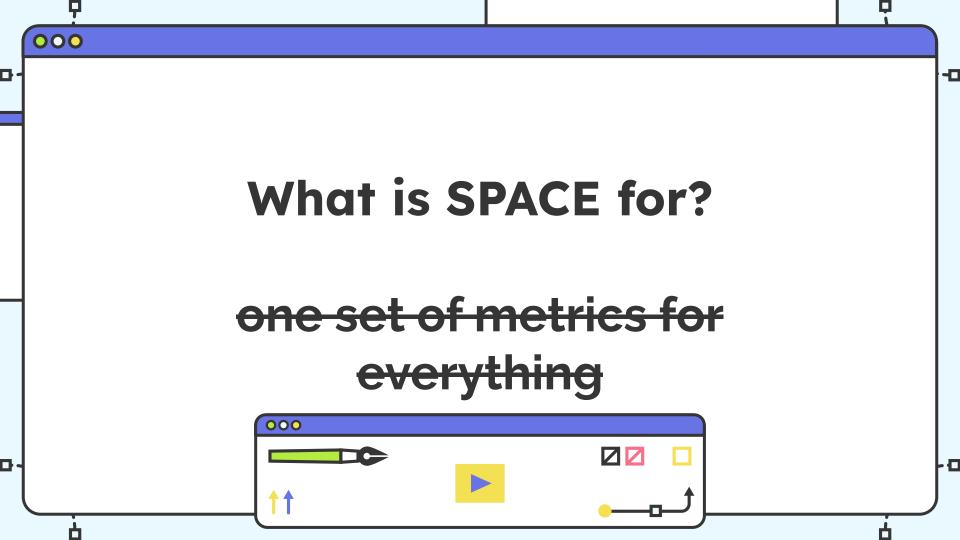


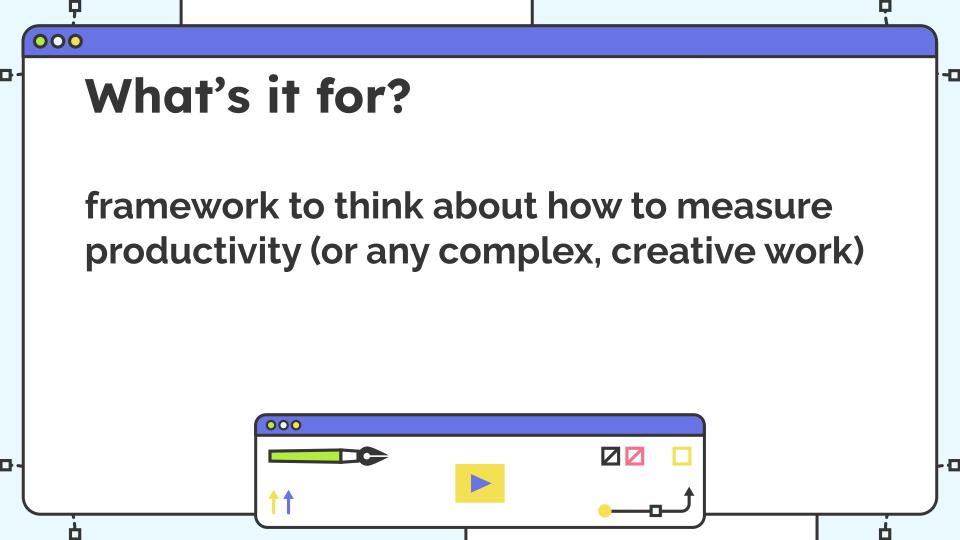
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	What is SPACE for?		
	one set of metrics for everything		
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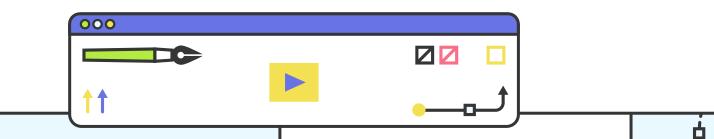




SPACE & DORA are complementary

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Once you've identified the capabilities you want to improve (using DORA), you can use SPACE to identify how you want to measure them



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More on SPACE:

an evolution of DORA; they each serve their purpose
a set of prescribed metrics

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The SPACE frame A holistic way to measure	
dimension	definition
S : Satisfaction and Well-being	How fulfilled, happy, and healthy one is
P : Performance	An outcome of a process
A: Activity	The count of actions or outputs
${f C}$: Communication and Collaboration	How people talk and work together; how systems talk and work together
E: Efficiency and Flow https://queue.acm.org/detail.cfm?id=3454124	Doing work with minimal delays or interruptions

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Applying SPACE to Incident Management (1 of 2)

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dimension	example metrics	
S : Satisfaction and Well-being	how satisfied SREs are with the IM process, escalation and routing, and on-call rotations are key metrics to capture, especially since burnout is a significant issue among SREs.	
P : Performance	<pre>these measures focus on system reliability; monitoring systems' ability to detect and flag issues faster, before they hit the customer and become an incident. MTTR (mean time to repair) overall, and by severity. number of issues caught by the monitoring systems, number of incidents created, number of incidents resolved—and their severity distribution.</pre>	
A: Activity		

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Applying SPACE to Incident Management (2 of 2)

dimension

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Flow

example metrics

C: Communication and Collaboration and Collaboration
people included in resolving the incident, how many teams those people came from, and how they communicate during an incident. Incident resolution documentation outlines the steps involved in resolving incidents; this can be measured by completeness (to check if any resolution data was entered) or quick quality scores (e.g., thumbs up/down). Teams may also include a metric that measures the percentage of incidents resolved that reference these guides and documentation.
E: Efficiency and incident handoffs, incident assignment/re-assignment,

number of hops an incident has to take before it is assigned to the right individual or team. ┝╼

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Applying SPACE to Testing (1 of 2)

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dimension	example metrics	
S : Satisfaction and Well-being	how satisfied testers and/or developers are with: the tools available to them for testing, the test suite, test times, manual testing support and visibility	
P : Performance	<pre>these measures focus on testing performance and reliability; test suite times/ flakiness number of issues caught by the tests, number of tests run, number of tests automated, proportion of automated tests run on the delivery pipeline, number of tests skipped, number of bugs hit/missed by the test suite - overall and by severity</pre>	
A : Activity		

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Applying SPACE to Testing (2 of 2)

dimension	example metrics	
C : Communication and Collaboration	test documentation describes the steps to run automated tests. manual test documentation describes the defect and the steps involved to recreate. this can also include system calls and APIs for tests.	
E : Efficiency and Flow	number of times a test suite is run before completed successfully; time spent fixing acceptance test failures; interruption statistics for testers doing work	

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DORA as SPACE (for software delivery)

Criteria: Have metrics across at least 3 of the 5 dimensions for a given focus area; this covers dimensions for software delivery.

DORA Metric	SPACE Dimension
Lead time	Efficiency and flow
Deploy frequency	Activity
MTTR	Efficiency and flow
Change fail rate	Performance
Availability (some like to include this as well)	Performance

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SPACE for Devs: Good Day Project

We did a study to help developers get quick and easy signals and patterns to help them have better days, more consistently. ("What makes a good day, and how can I have one more often?")



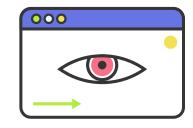
https://github.blog/2021-05-25-octoverse-spotlight-good-day-project/

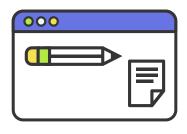
Good Day Project

To capture SPACE quickly, we asked questions like:

- How was your work day?
- I worked with other people
- My work was interrupted
- How many meetings did you have today?
- Today, I felt most productive... (and least productive)

[the full instrument is available online!]





https://github.blog/2021-05-25-octoverse-spotlight-good-day-project/

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Finding flow is key, and interruptions are a drag

Minimal or no interruptions give developers:

Interruptions throughout
the day:

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chance of having a good day

7%

chance of having a good day

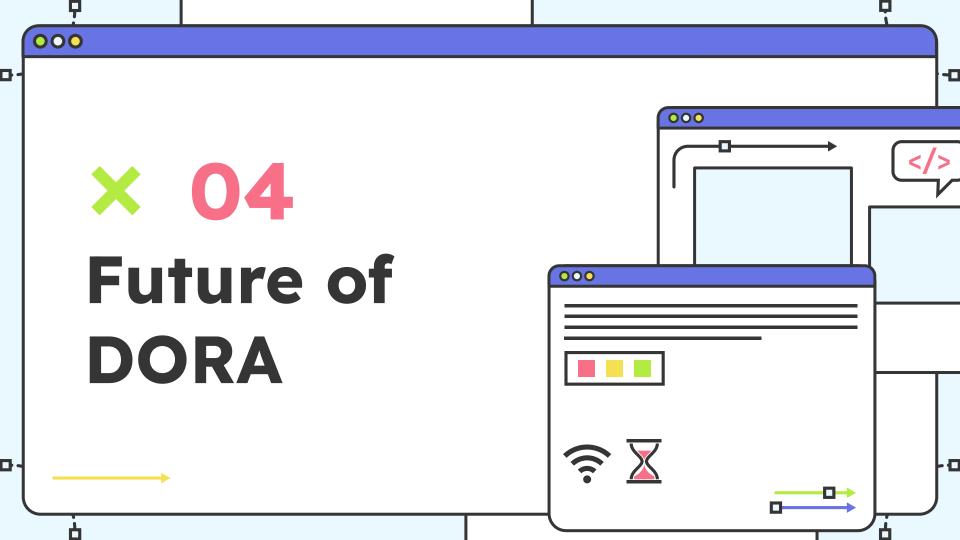
2020 State of the Octoverse Report (GitHub)

Two minute daily reflection can help improve our days

- Developers liked the quick check-in as a way to reflect
- As a nice bonus: a wrap-up at the end of the day
- This echoes an earlier Daily Gratitude study

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For more info, including the survey questions and example
reports, check out
https://github.blog/2021-05-25-octoverse-spotlight-good-day-p
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I lost my crystal ball... but DORA's past and present work is aligned with the latest "trends":

- DevEx
- Reliability and security
- Effectiveness and efficiency
- Culture
- "Reimagining" people into DevOps – it's not just tools!

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DORA team

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The strength of DORA is **research** and **community**.

There's no one better to lead this effort than **Nathen Harvey.** He has deep expertise in the research and in transformations. I've worked with him since I started this work and am so grateful for his expert guidance in the research program and the community work.

Let's shout out the research team. **Dustin Smith** was PI in '21-'22, and now **Derek DeBellis** for '23.

DORA team

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The strength of DORA is **research** and **community**.

There's no one better to apply, test, ground this research and discover new patterns than **all of YOU**.

You are the heart of this work, you test and try it, you ask hard questions, you champion it. I am so grateful to each and every one of you for being part of DORA.

