re: Invent DECEMBER 2 - 6, 2024 | LAS VEGAS, NV

DOP105-S

The State of Developer Experience – with Atlassian Engineering Leaders

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Atlassian

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Head of Engineering, Compass Atlassian



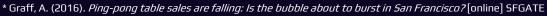


No. of Ping Pong Tables



per Company*







Frozen pizza

>50%

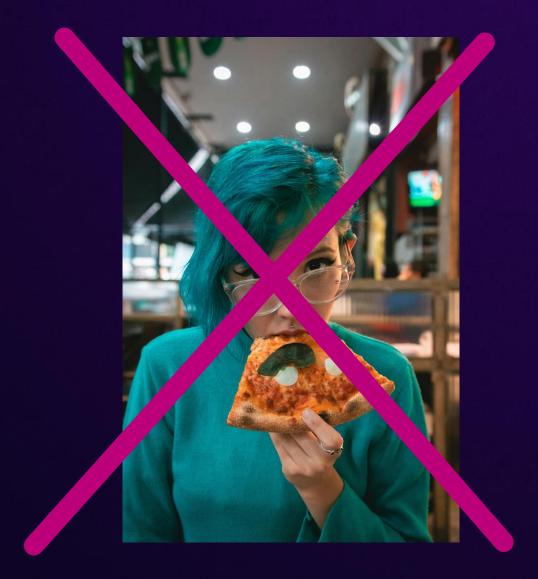
of total pizza sales*

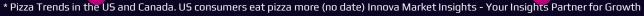


^{*} Pizza Trends in the US and Canada. US consumers eat pizza more (no date) Innova Market Insights











What is Developer Experience?

Developer experience is how devs think and feel about the tools, frameworks, and processes they use to deliver software within a company.



Why Developer Experience?

Happy devs are productive devs!

- Employee satisfaction
- DevEx is critical for attracting new talent, and retaining high performers

- Higher quality software
- Removing friction allows more time to focus on quality

- Improved productivity
- Remove inefficiency and make work as easy as possible

- * Turbocharge innovation
- Faster release cycles lead to enhanced experimentation and learning



A ATLASSIAN State of Developer Experience Report



Download the full report



State of Developer Experience Report





Download the full report



State of Developer Experience Report

- + The state of DevEx across the globe
- What's getting in the way of a good DevEx?



Download the full report



State of Developer Experience Report



What's getting in the way of a good DevEx?

* The impact of AI on DevEx



Download the full report



State of Developer Experience Report



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Partnered with DX and Wakefield



State of Developer Experience Report



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- Partnered with DX and Wakefield
- ? Surveyed 2,150 devs and leaders



State of Developer Experience Report



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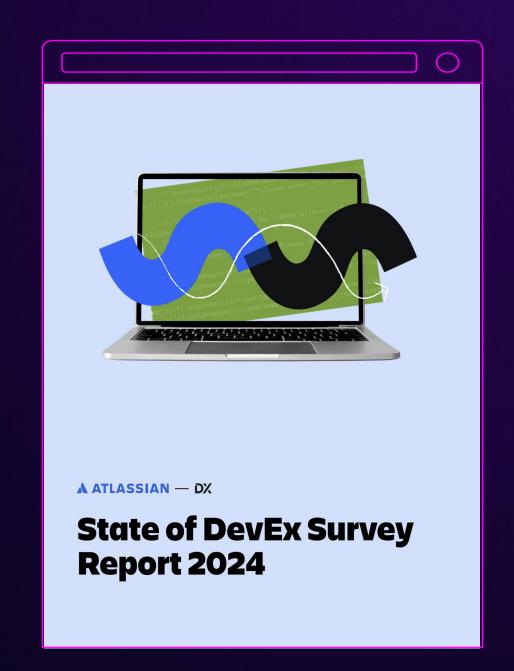
- + The state of DevEx across the globe
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- Partnered with DX and Wakefield
- Surveyed 2,150 devs and leaders
- Analyzed results and shared a full report



Unpacking the 2024 State of DevEx

- Three high-level themes from the report
- Review key stats and insights
- What we're doing within Atlassian to improve our DevEx





Atlassian 2024 State of DevEx – Key Themes

THEMES TO EXPLORE DURING THIS SESSION



DevEx Misalignment

Devs aren't empowered to do their best work, and there's significant misalignment between engineers and leaders as to why.



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Measuring DevEx

Understanding and improving DevEx pays dividends but companies are struggling with how to do this.



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AI has a role to play in DevEx, but is it being applied in the right areas?

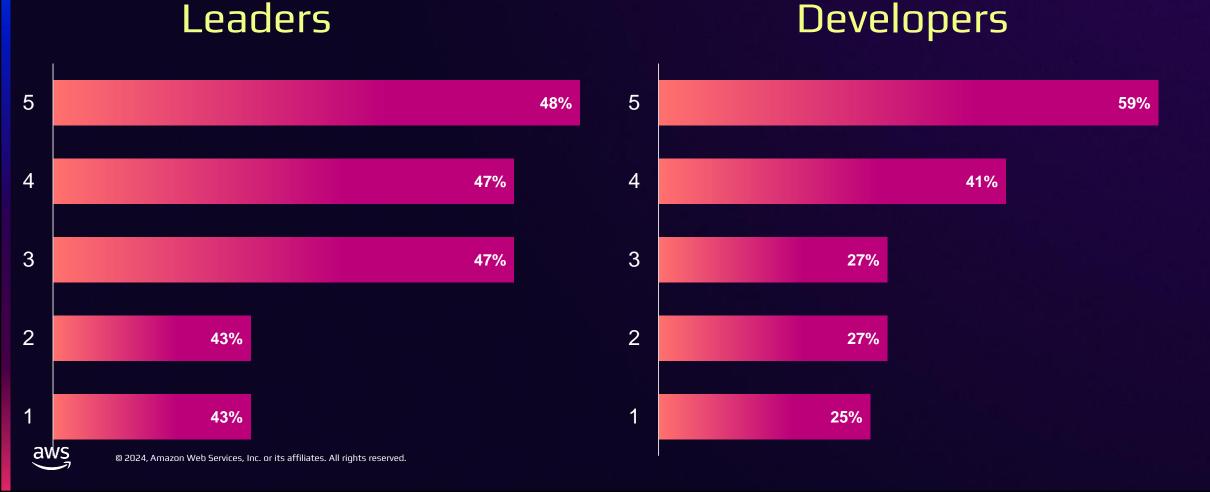


The misalignment on Developer Experience



MISALIGNMENT BETWEEN DEVELOPERS AND ENGINEERING LEADERS

Top 5 impacts to DevEx



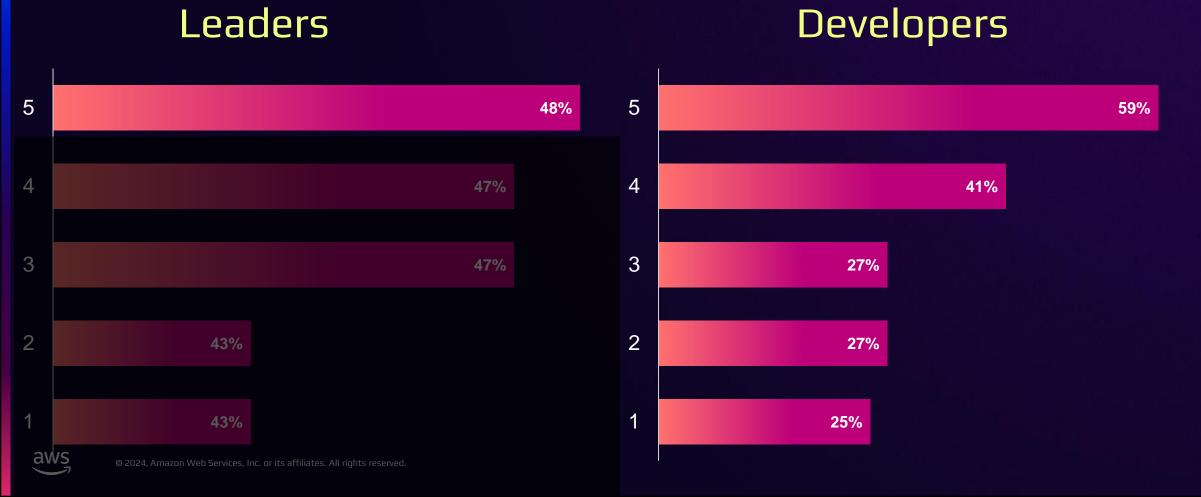
MISALIGNMENT BETWEEN DEVELOPERS AND ENGINEERING LEADERS

You can't improve Developer Experience if you don't understand the friction points developers are facing



MISALIGNMENT BETWEEN DEVELOPERS AND ENGINEERING LEADERS

Top 5 impacts to DevEx





MISALIGNMENT BETWEEN DEVELOPERS AND ENGINEERING LEADERS

44%

of developers believe leaders are aware of DevEx
Issues





The misalignment on AI productivity

Leaders believe

62%

is the most effective way to improve productivity and satisfaction

of developers are yet to experience significant productivity gains





DevEx is important to both Developers and Leaders

86%

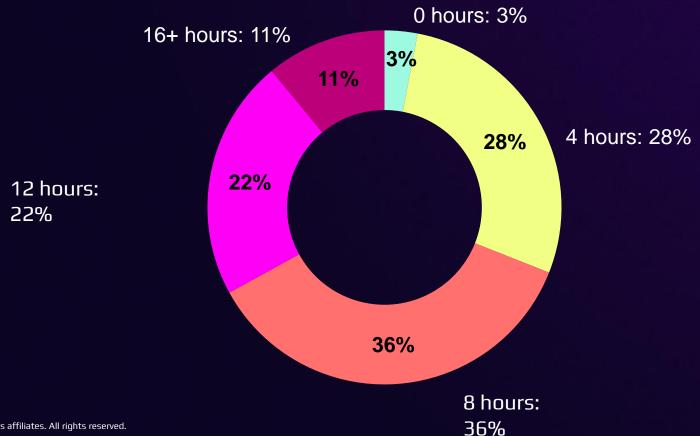
53%

leaders say attracting and retaining talent will be near impossible without improving DevEx

Developers say DevEx is important when deciding to stay in their current job



69% of developers lose 8 hours or more per week to inefficiencies





The DevEx Misalignment

What does it all mean?



The DevEx Misalignment

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The DevEx Misalignment

What does it all mean?



What does it all mean?

Developers are dealing with huge amounts of friction



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Leaders don't have a good understanding of the challenges



What does it all mean?

Developers are dealing with huge amounts of friction



Leaders don't have a good understanding of the challenges

Investment is going into the wrong areas







What does it all mean?



Developers are dealing with huge amounts of friction



Poor productivity, loss of talent. Attempts to measure productivity.

Leaders don't have a good understanding of the challenges



Investment is going into the wrong areas







What does it all mean?



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The bad DevEx cycle

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The bad DevEx cycle

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Investment is going into the wrong areas





DevEx Misalignment

Understanding your Developer Experience

1. Ask your developers



P DevEx Misalignment

Understanding your Developer Experience

- Ask your developers
- 2. Survey developers



DevEx Misalignment

Understanding your Developer Experience

- Ask your developers
- Survey developers
- 3. Measure and baseline points of friction



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Understanding our Developer Experience





Quarterly survey

- Survey 5,000 devs
- ~90% participation
- Ask about inner/outer loop
- 20% of responses to openended questions





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Focus areas

- General pulse check
- Signals on challenges
- Identify top focus areas
- Work on improving pain points





Quarterly survey

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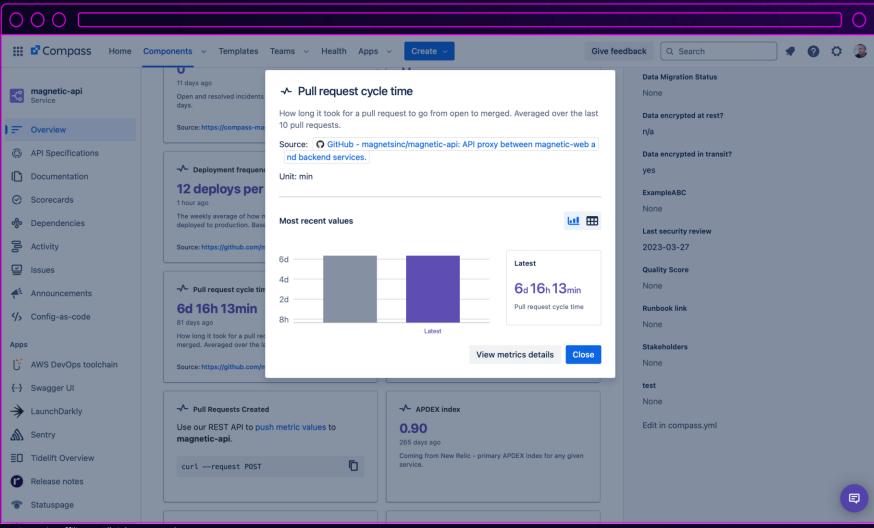


Close the loop

- Have devs felt a difference
- What are direct managers doing?
- Metrics available for every team

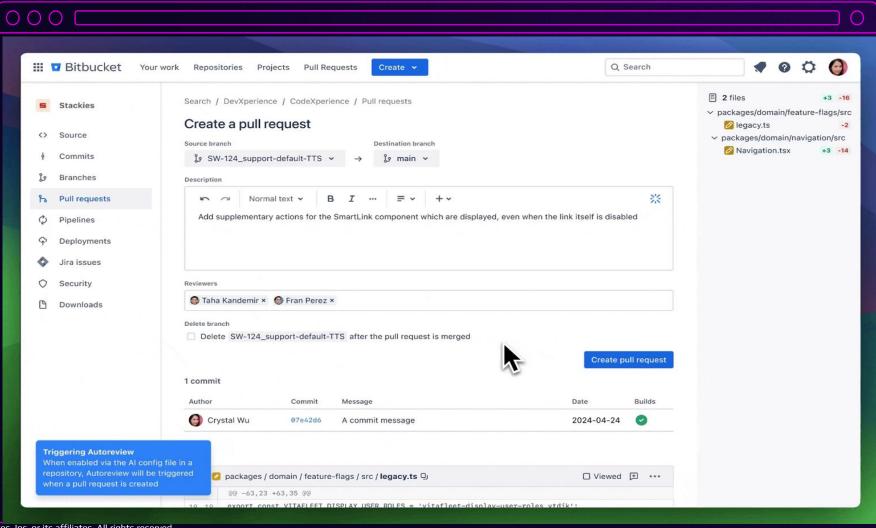


Metrics available for every team in Compass





Improving PR Review Time with AutoReview







Developer satisfaction



has rapidly increased through this approach



Atlassian 2024 State of DevEx – Key Themes

AREAS TO EXPLORE DURING THIS SESSION



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Measuring DevEx

Understanding and improving DevEx pays dividends but companies are struggling with how to do this.



Role of AI in DevEx

AI has a role to play in DevEx, but is it being applied in the right areas?









- 5. Change failure rate





- 3.
- 4. Hours worked
- 5. Change failure rate





- 3. Story points
- 4. Hours worked
- 5. Change failure rate





- 2. Deployment frequency
- 3. Story points
- 4. Hours worked
- 5. Change failure rate





- 1. Amount of code
- 2. Deployment frequency
- 3. Story points
- 4. Hours worked
- 5. Change failure rate





Top 5 ways organizations are measuring productivity

- 1. Amount of code
- 2. Deployment frequency
- 3. Story points
- 4. Hours worked
- 5. Change failure rate

50%

of companies using these measures find them effective





You can't measure developer productivity...





You can't measure developer productivity... but





You can't measure developer productivity... but

Measurement has an important part to play in productivity





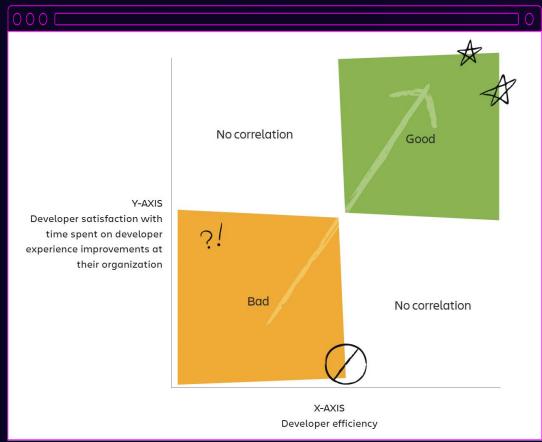
Understanding your Developer Experience

- Ask your developers
- Survey developers
- Measure and baseline points of friction





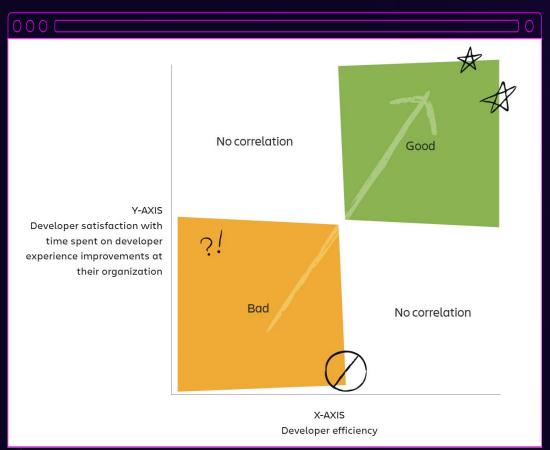
Correlation between developer satisfaction with time spent on DevEx and dev efficiency







Correlation between developer satisfaction with time spent on DevEx and dev efficiency



Measuring and improving points of friction results in happier, more productive developers!



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Measuring our Developer Experience



Measurement caution

Developer Experience is unique to your organization – what you measure should be too.



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Take inspiration from companies who do this well, but don't replicate their measures.



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Creating software is a team sport



The measures Atlassian uses to assess Developer Experience

- Developer Satisfaction
- Time from Commit to Deploy
- Pull Request Cycle Time

- Self-Serve Documentation
- Self-Serve Dependency Maintenance



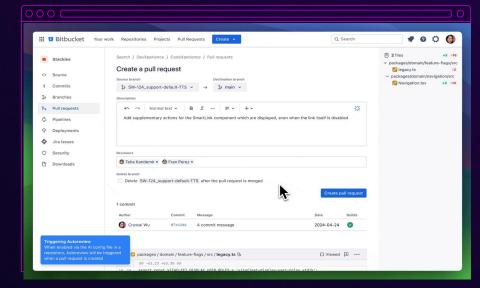


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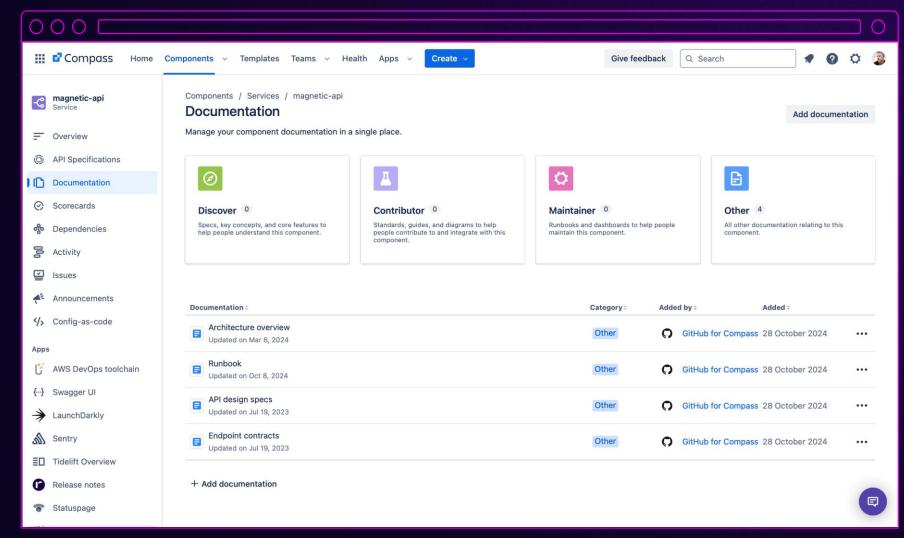
AutoReview







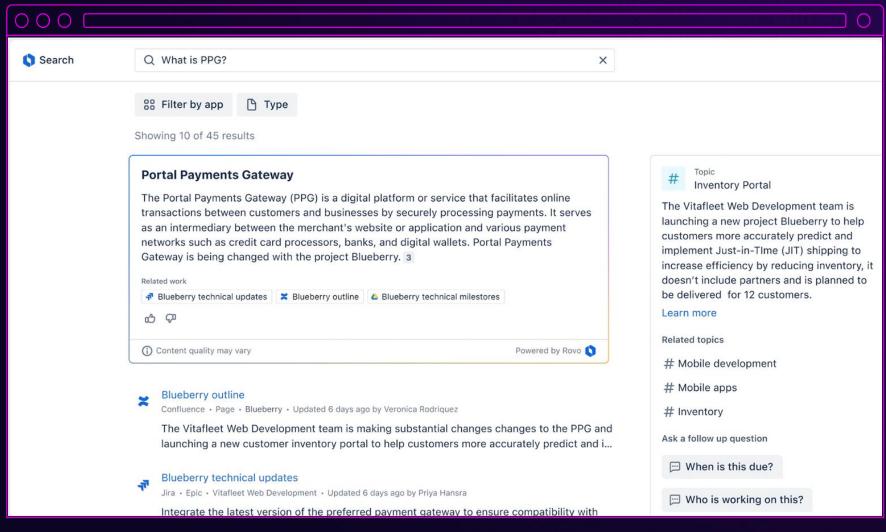
Self-Serve Documentation







Rovo Search





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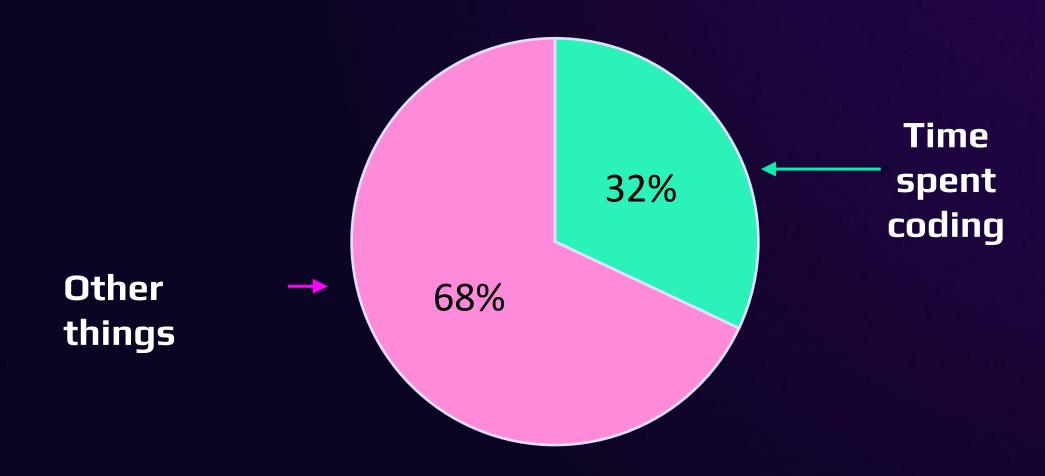
of developers are yet to experience significant productivity gains through AI





of devs complain about spending too much time writing code







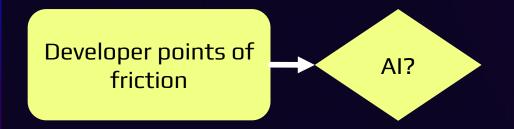
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Approach to using AI for engineering

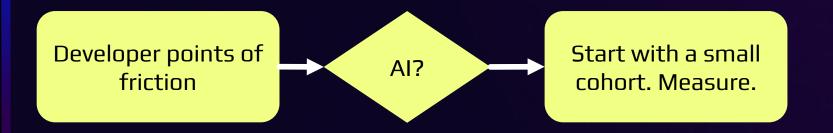


Developer points of friction

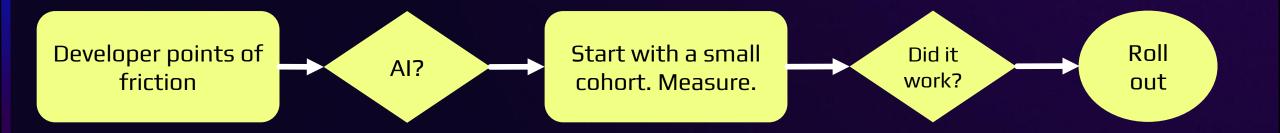








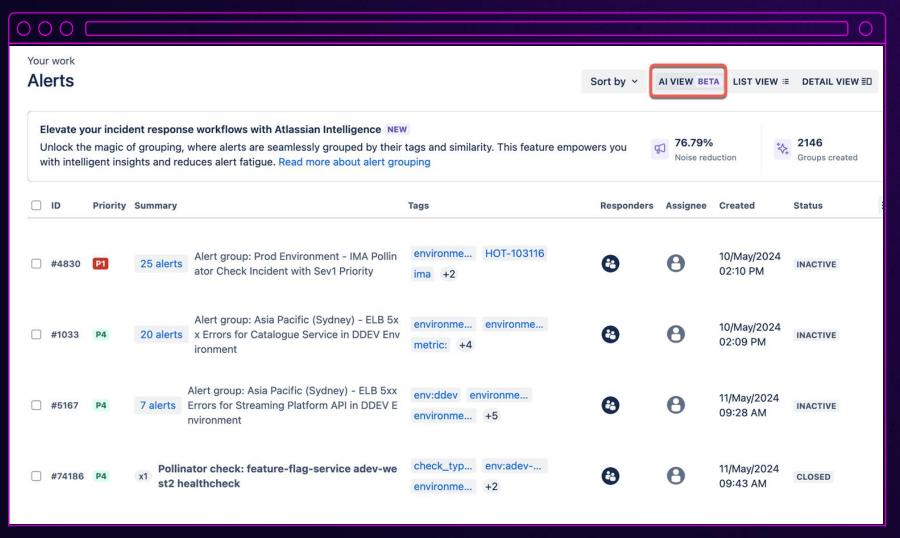






Using AI to improve DevOps

Al Alert Grouping in Jira Service Management



Wrap-up

The 2024 State of Developer Experience



The path to success is through a deep understanding of points of friction



Wrap-up

The 2024 State of Developer Experience



DevEx Misalignment

The path to success is through a deep understanding of points of friction



Measuring DevEx

Measurement is important. Measure the points of friction and work towards continuously improving them.



Wrap-up

The 2024 State of Developer Experience



DevEx Misalignment

The path to success is through a deep understanding of points of friction



Measuring DevEx

Measurement is important. Measure the points of friction and work towards continuously improving them.



Al is a fantastic tool that can be used to improve DevEx, if it's used to solve points of friction for developers.



Thank you!



Please complete the session survey in the mobile app

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Preeti Kota

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