

"DevEx - that's more about the frontend user experience, right?"

DevEx is *more* than your parent's software development lifecycle

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So what is DevEx?

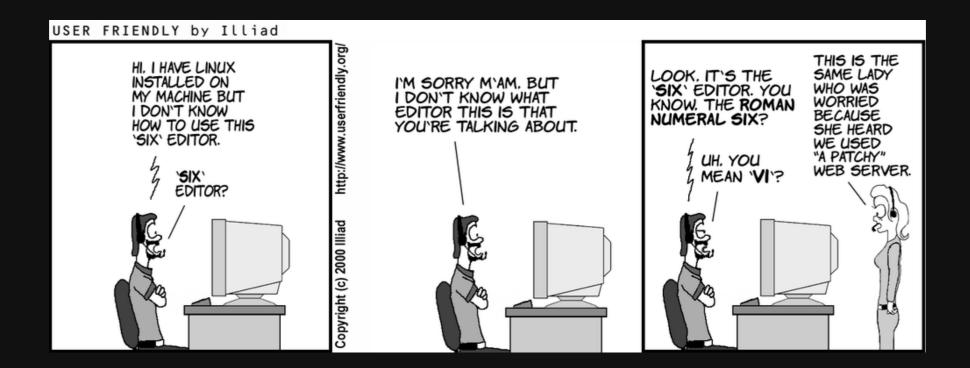
So what is DevEx?

DevEx encompasses the journey of developers as they learn and deploy technology. When successful, it focuses on eliminating obstacles that hinder a developer or practitioner from achieving success in their endeavors.

DevEx is about more than the traditional UI/UX focus



Before the 1990s



REF: O'Reilly "Learning the vi and Vim Editors"

Before the 1990s





Before the 1990s



Before the 1990s

Conferences > IEE Colloquium on Architectur HP SoftBench-support for distributed working	
R. Bark All Authors	
16 Full Text Views	R < © = •
Abstract	Abstract:
Authors	The paper introduces the elements of the HP CASE product SoftBench that are relevant to its support for distributed working. It identifies the degree to which the current product supports distribution and outlines some of the areas of related research being carried out in HP Laboratories Bristol. The HP SoftBench product is an integrated software development environment designed to facilitate rapid, interactive program construction, test, and maintenance in a distributed computing environment.
Keywords	
Metrics	
3	Published in: IEE Colloquium on Architectures for Distributed Development Support

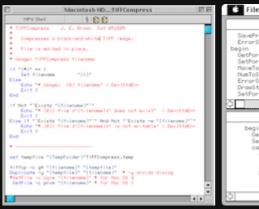
REF: https://ieeexplore.ieee.org/document/182074

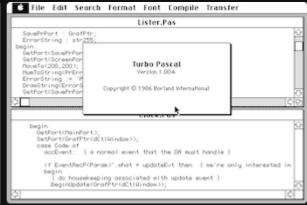
Before the 1990s

"...the use of an IDE was not well received by developers since it would fence in their creativity."

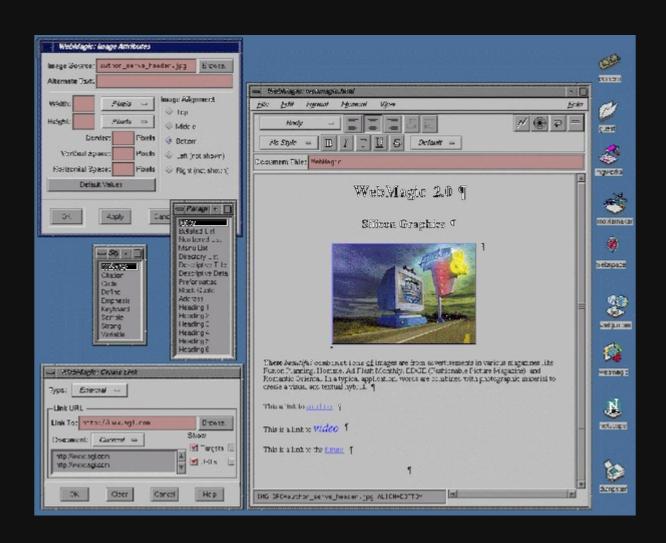
REF: *Computerwoche* ("Computer Week", German counterpart of American magazine *Computer World*), 1995.

Before the 1990s

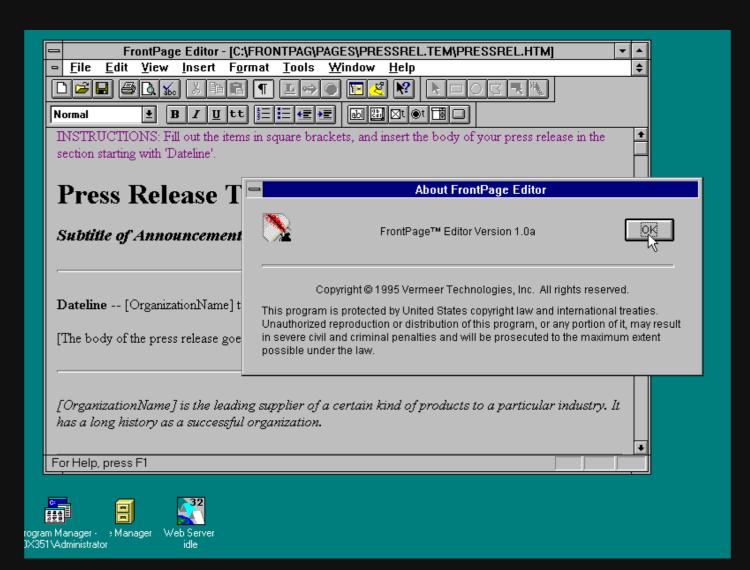




The Web and the 1990s



The evolution of the IDE The Web and the 1990s



The evolution of the IDE Cross-platform and the 1990s



Early iterations

(Late 1990s to Early 2000s)

- Macromedia Dreamweaver in late 1997 (what was it called before?)
- Visual Studio in late 1997
- FrontPage 2000 in 1999
- Netbeans in 2000
- Eclipse in 2001 (IBM kickstarted)

Feature & Usability Advancements

Mid-2000s to 2010s

- IntelliJ IDEA
- Eclipse
- Visual Studio

Lightweight and Cloud-Based

2010s to Now

- Sublime Text, Atom, VSCode (lightweight)
- AWS Cloud9, GitHub Codespaces, Gitpod (cloud-based)

IDEs are a result of DevEx

Things we never knew we needed...

- Code completion
- Syntax highlighting
- Debugging
- VCS integration (no more FTPing files around)
- Multi-language support
- Framework integration
- Pair programming



DevEx is a Key Differentiator

- Critical differentiator for attracting & retaining top talent
- Ensures high levels of team performance and product quality
- More engaged and productive development team
- Demonstrated commitment to DevEx enhances brand reputation + CSAT
- Directly impacts bottom line by enabling quicker time to market

Manual configuration

Late 1990s to Early 2000s

Manual configuration

Late 1990s to Early 2000s



Manual configuration

Late 1990s to Early 2000s





Config Mgmt & Containerization

Mid-2000s to 2010s





laC and DevOps Integration

2010s to Present





Broader Impact of DevEx

- Deployment Pipelines
- Infrastructure as Code (IaC) Practices
- Developer Efficiencies

Good DevEx == Good DevOps

- Facilitates smoother transitions between Dev and Ops
- Minimizes bottlenecks with enhanced collaboration
- Ensures feedback loops are efficient and productive
- Enables DevOps principles to take hold within an organization

What is DevOps?

the combination of practices and tools designed to increase an organization's ability to deliver applications and services faster than traditional software development processes

Core DevOps Principles

Collaboration

Core DevOps Principles

- Collaboration
- Communication

Core DevOps Principles

- Collaboration
- Communication
- Shared Responsibility



DevEx & DevOps Alignment

• Enhanced collaboration *via tools and processes*

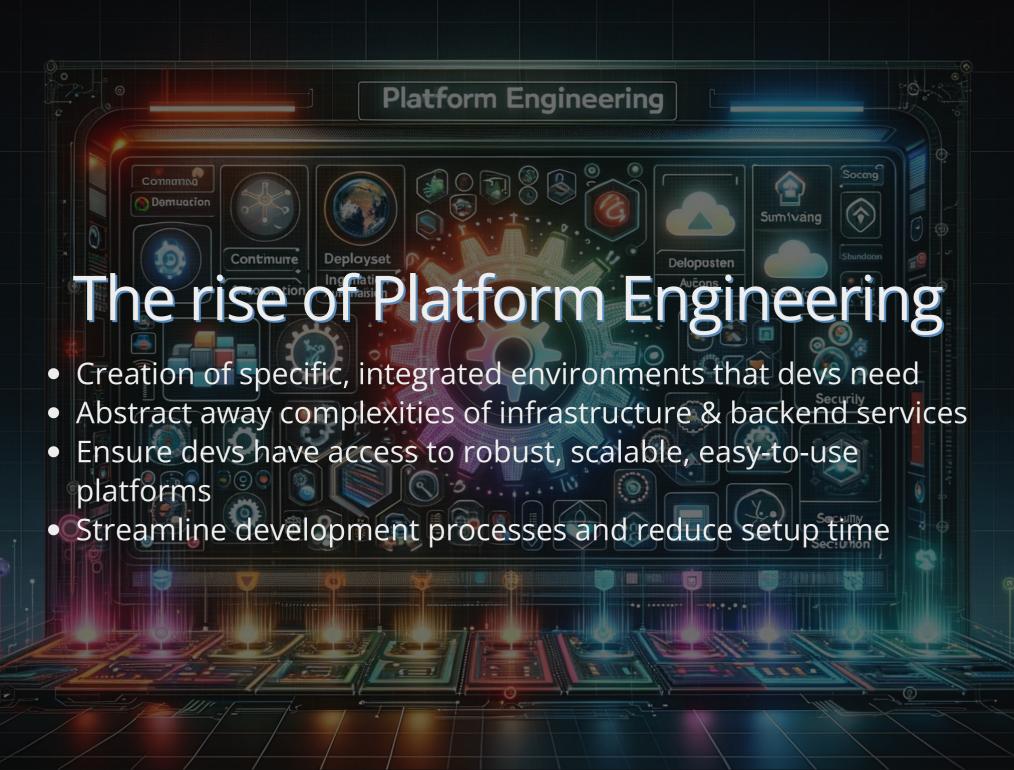
DevEx & DevOps Alignment

- Enhanced collaboration *via tools and processes*
- Improving communication via streamlined info sharing and feedback

DevEx & DevOps Alignment

- Enhanced collaboration via tools and processes
- Improving communication via streamlined info sharing and feedback
- Shared responsibility by empowering all teams with access and information

DevEx and Dev Ops are



Self-Service Platforms

- Empower developers to control their needs with necessary tools
- Leverage automation, templates, policies with agility
- Accelerate development, enhance productivity, and foster autonomy and innovation



• Empower with the right tools

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- Encourage Cross-functional Teams

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- Encourage Cross-functional Teams
- Implement Feedback Loops
- Focus on Automation
- Invest in Training and Development

DevEx Impact Productivity

• Streamlined Development Environments

DevEx Impact Productivity

- Streamlined Development Environments
- Integrated and Automated Toolchains

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- Streamlined Development Environments
- Integrated and Automated Toolchains
- Efficient Collaboration Platforms

Autonomy and Empowerment

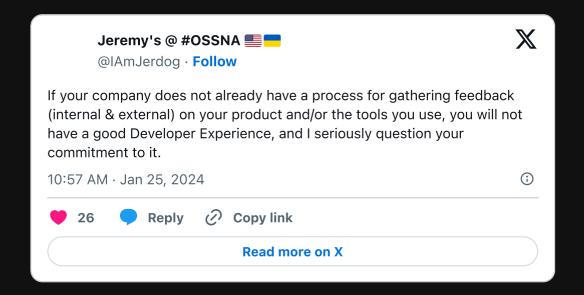
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- Recognition and Achievement
- Reduced Frustration and Burnout
- Learning and Growth Opportunities



DevEx reflects an organizations values



Final Thoughts Future is bright

Things to think about

Integration of AI and ML

- Automated Code Generation and Review
- Predictive Analytics in DevOps

Things to think about Focus on Developer Well-Being

- Flexible working arrangements
- Tools that reduce frustration and burnout
- A culture that values learning and growth

Things to think about

Continuous Learning & Skill Development

 Investments in programs to help teams keep up with new tools, practices, tech

DevEx is...

"ruthlessly eliminating barriers (and blockers) that keep your developers from being successful"

Thank You.



