



Developer Experience...

Central to DevOps Success

What is Developer Experience?



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

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So what is DevEx?

*"...the **journey** of developers as they learn and deploy technology, which if successful, focuses on eliminating obstacles that hinder a developer or practitioner from achieving success in their endeavors."*

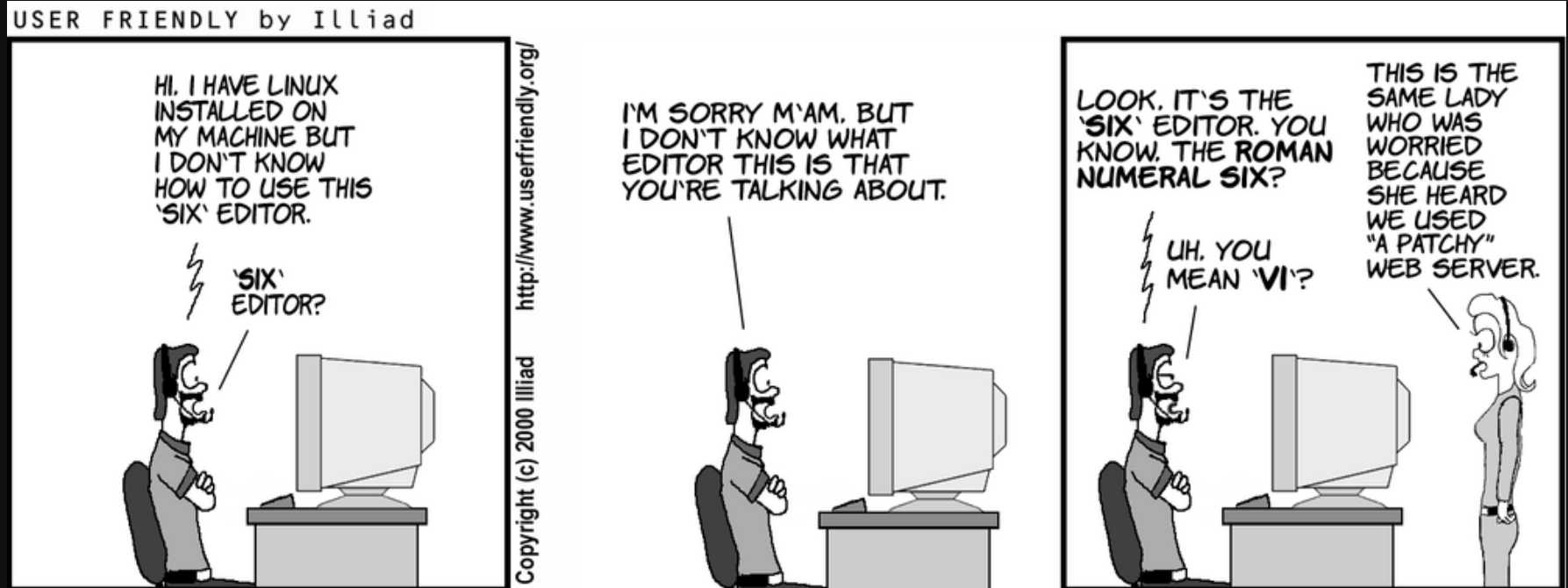
-Jessica West, Co-Founder, DevEx Institute

DevEx includes every interaction a developer has with systems, tools, and processes



The evolution of the IDE

Early text editors

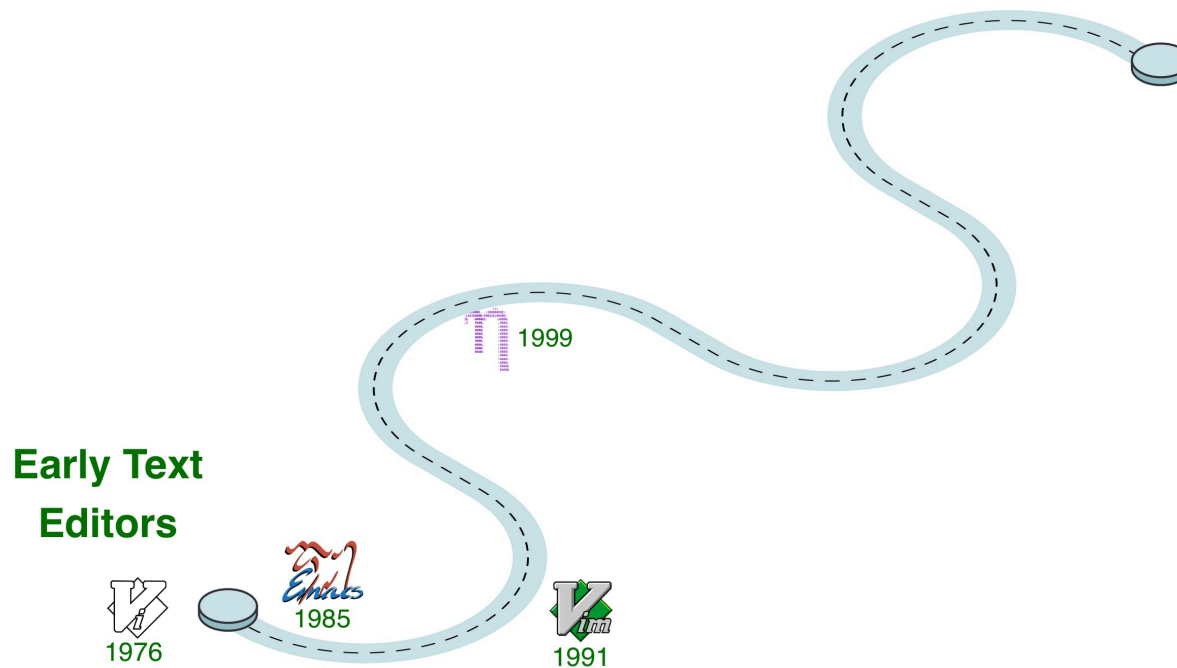


REF: O'Reilly "Learning the vi and Vim Editors"

The evolution of the IDE

Early text editors

EVOLUTION OF THE IDE

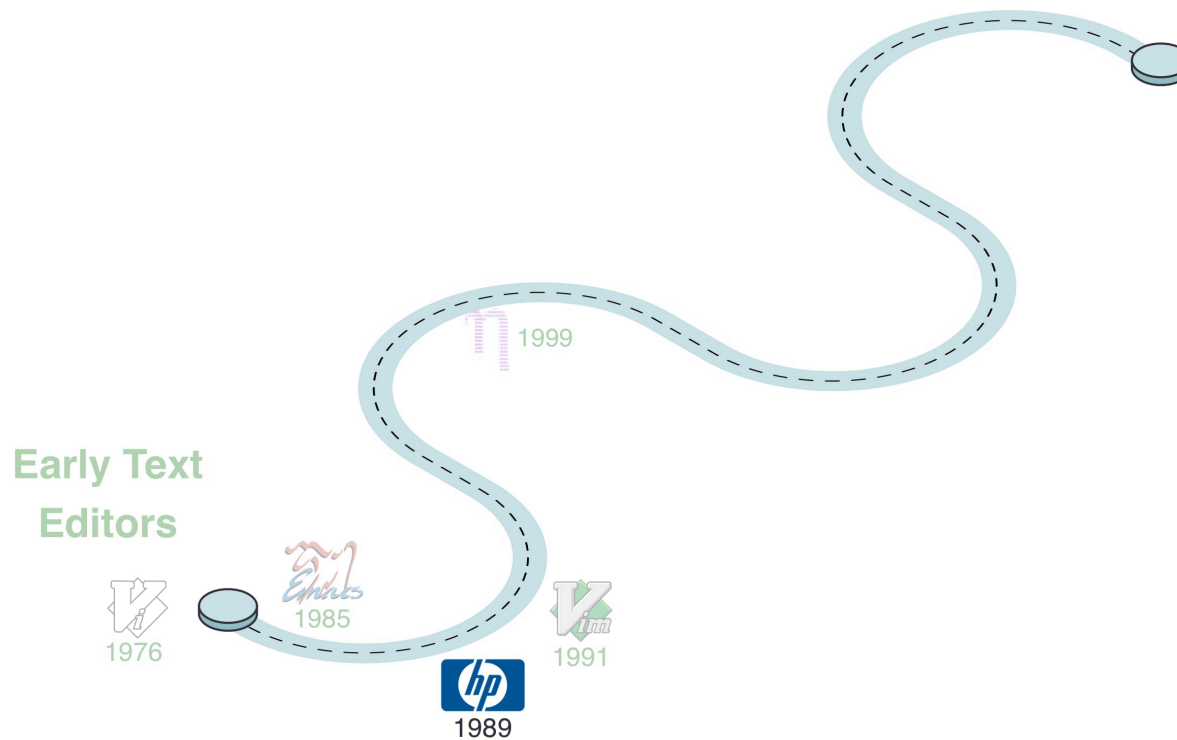


Early Text Editors

The evolution of the IDE

First plug-in IDE

EVOLUTION OF THE IDE



The evolution of the IDE

First plug-in IDE



REF: HP Journal, June 1990 edition

The evolution of the IDE

Early reviews

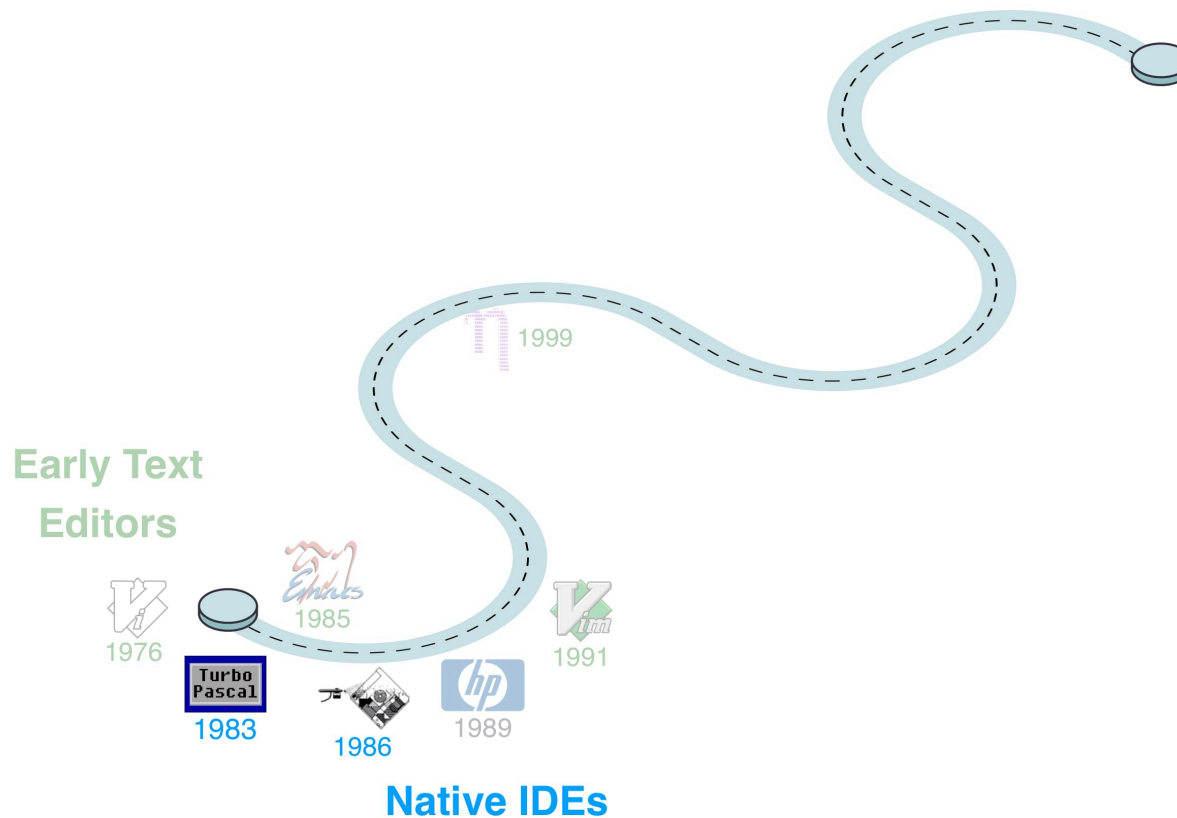
"...the use of an IDE was not well received by developers since it would fence in their creativity."

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

The evolution of the IDE

Native IDEs in the 1980s

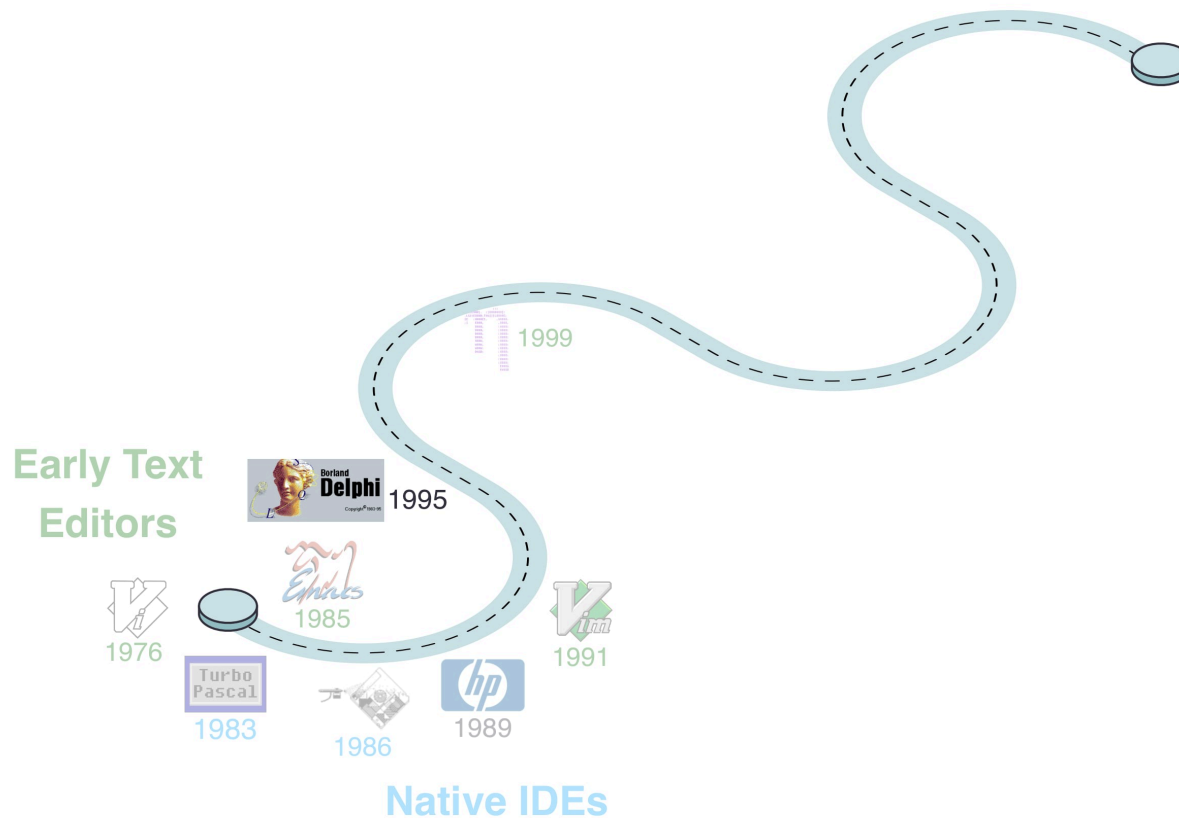
EVOLUTION OF THE IDE



The evolution of the IDE

Cross-platform in the 1990s

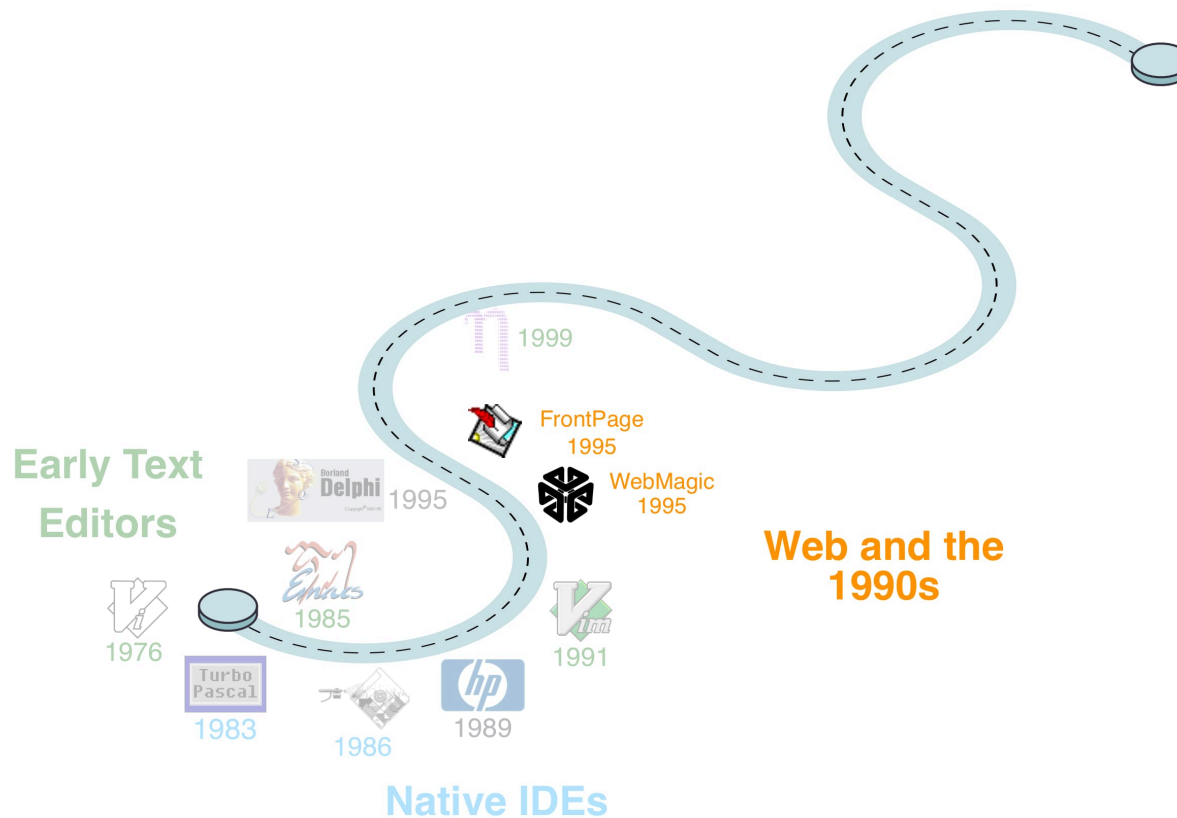
EVOLUTION OF THE IDE



The evolution of the IDE

The Web and the 1990s

EVOLUTION OF THE IDE

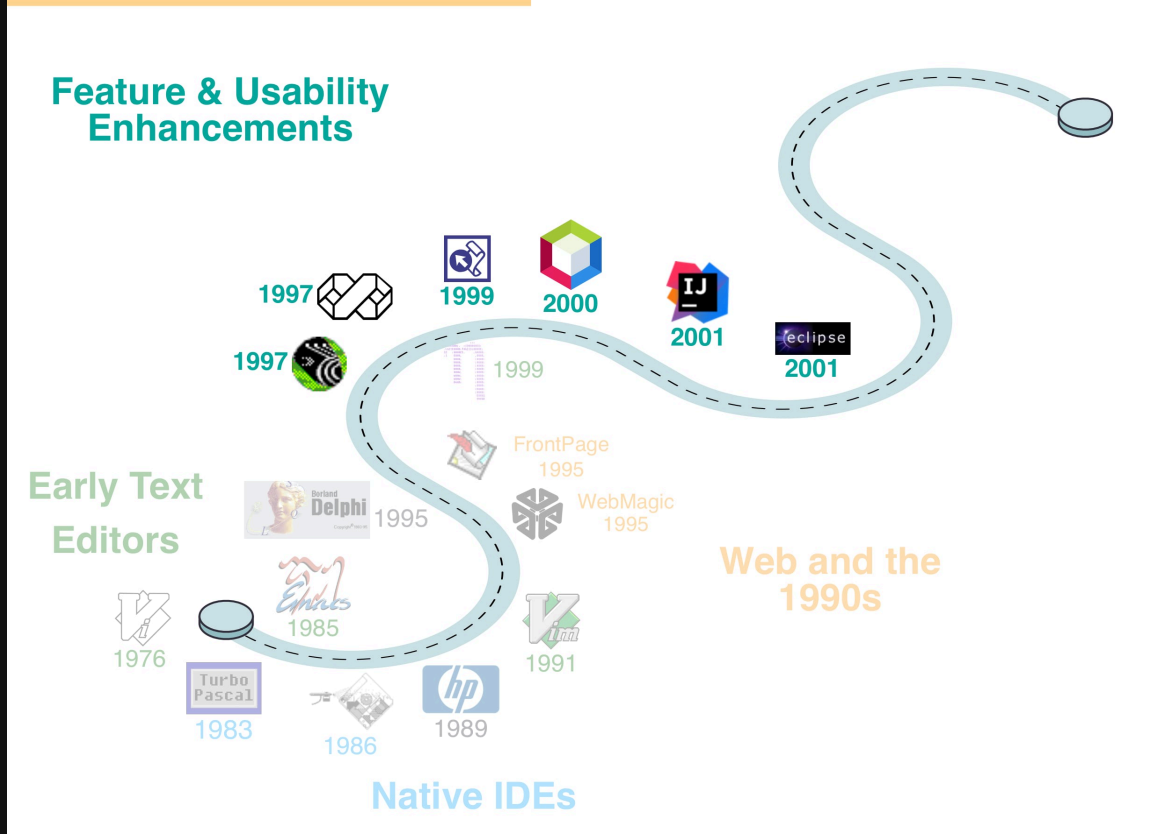


The evolution of the IDE

Feature & Usability Advancements

(Late 1990s to 2000s)

EVOLUTION OF THE IDE

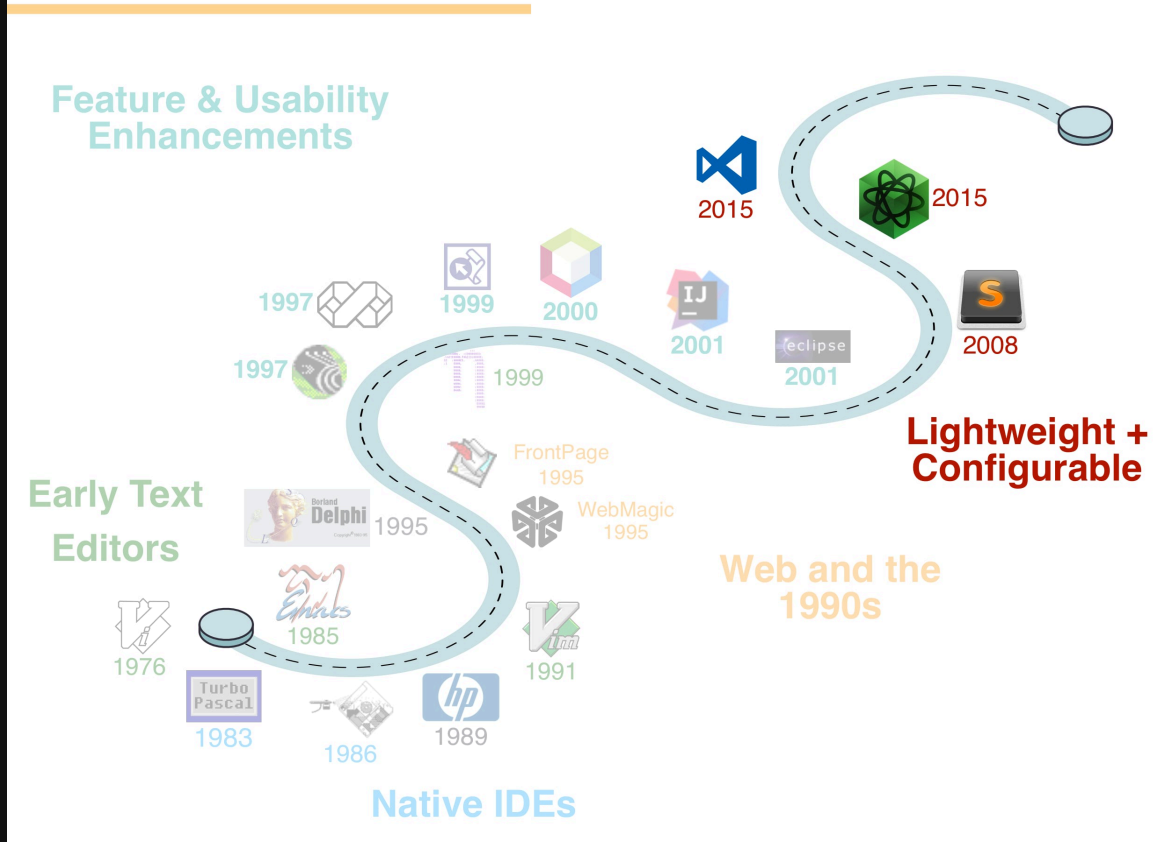


The evolution of the IDE

Lightweight and configurable

2010s to Now

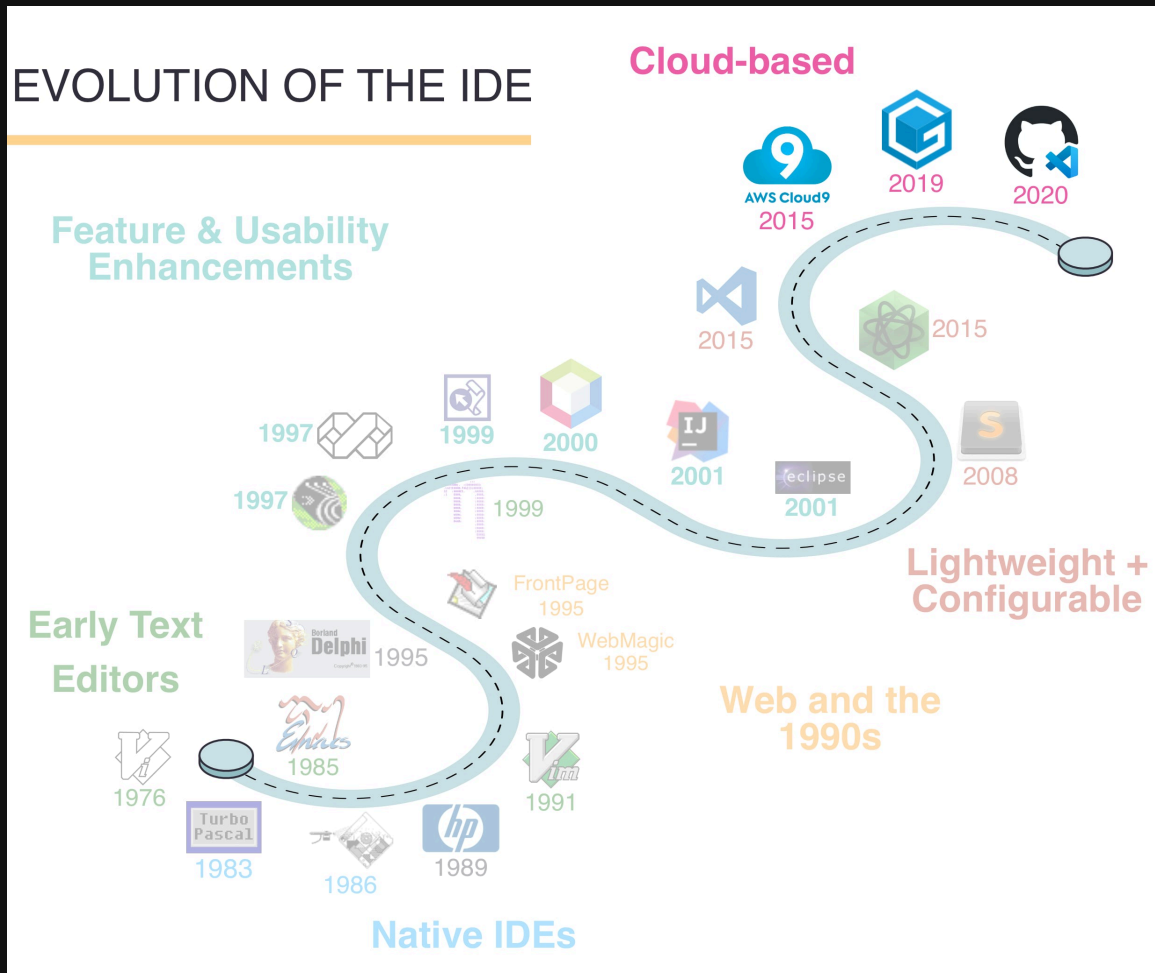
EVOLUTION OF THE IDE



The evolution of the IDE

Cloud-based options

Now



IDEs are a result of DevEx

Things we never knew we needed...

From this:

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

IDEs are a result of DevEx

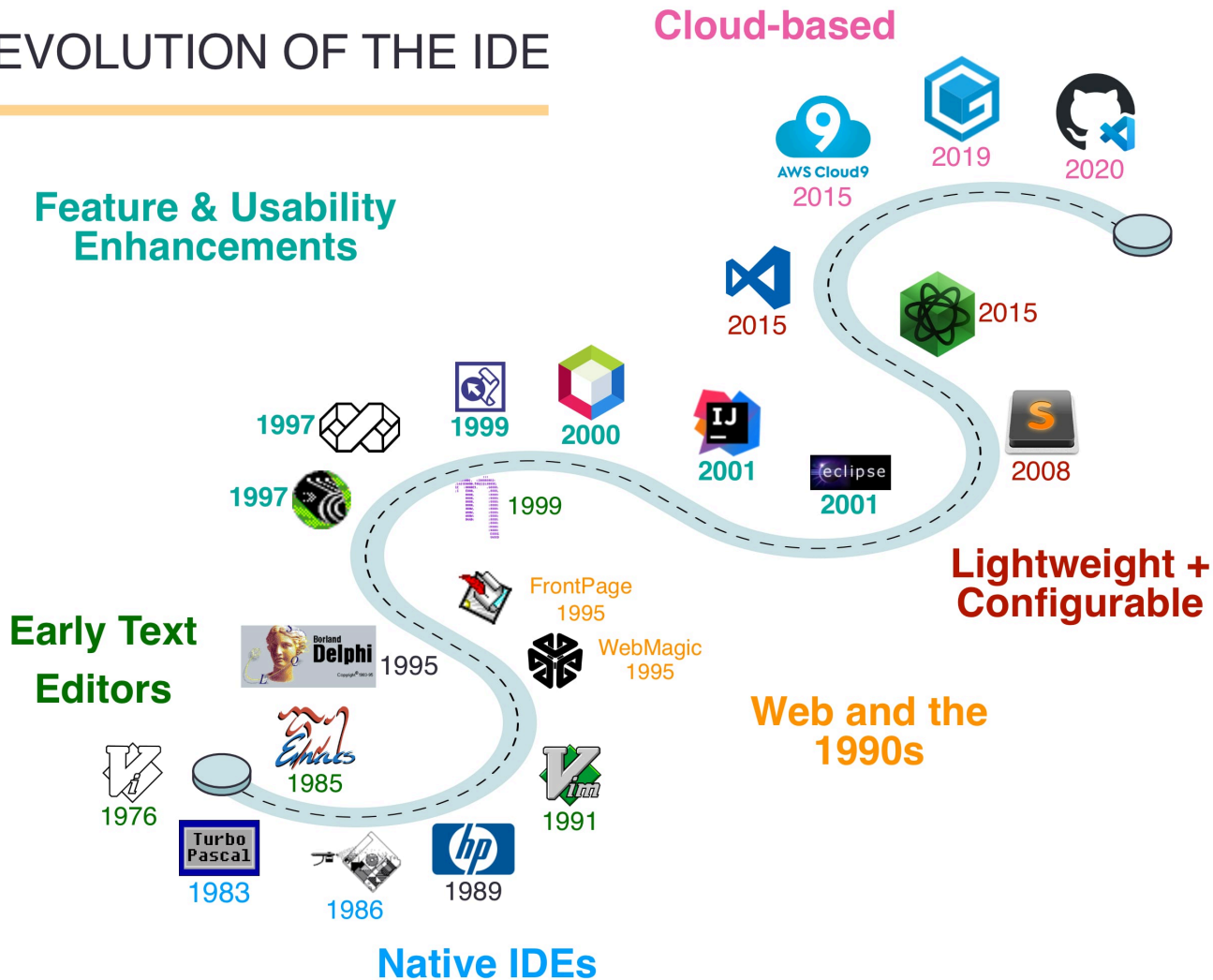
Things we never knew we needed...

To this:

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

IDE Evolution

EVOLUTION OF THE IDE





Dev Environment Setup

Manual configuration

Late 1990s to Early 2000s

Dev Environment Setup

Manual configuration

Late 1990s to Early 2000s



Dev Environment Setup

Config Mgmt & Containerization

Mid-2000s to 2010s



CHEF SALTSTACK



ANSIBLE docker

Dev Environment Setup

IaC and DevOps Integration

2010s to Present



Broader Impact of DevEx

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

Good DevOps == Good DevEx

- 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

DevOps Principles + DevEx alignment

- Collaboration

DevOps Principles + DevEx alignment

- Enhanced collaboration *via tools and processes*

DevOps Principles + DevEx alignment

- Collaboration
- Communication

DevOps Principles + DevEx Alignment

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

DevOps Principles + DevEx alignment

- Collaboration
- Communication
- Shared Responsibility

DevOps Principles + DevEx 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*





DevOps and DevEx are
One

Platform Engineering

The rise of Platform Engineering

- Creation of specific, integrated environments that devs need
- Abstract away complexities of infrastructure & backend services
- Ensure devs have access to robust, scalable, easy-to-use platforms
- Streamline development processes and reduce setup time

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



Better Practices

- Empower with the right tools
- Encourage Cross-functional Teams
- Implement Feedback Loops
- Focus on Automation
- Invest in Training and Development

DevEx Impact

Productivity

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

DevEx Impact

Morale

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

DevEx reflects an organizations values



Jeremy's @ #OSSNA 
@IAmJerdog · [Follow](#)

If your company does not already have a process for gathering feedback (internal & external) on your product and/or the tools you use, you will not have a good Developer Experience, and I seriously question your commitment to it.

10:57 AM · Jan 25, 2024

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DevEx is...

*“ruthlessly eliminating
barriers (and blockers)
that keep your
developers from being
successful”*

Thank
You.



/in/jeremymeiss



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