Microsoft

What Visual Studio Code can do for Java Development

Ed Burns

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Way more than I can show in 15 minutes.

So I will go slow and not rush.

Ed Burns

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My Plan for Your Time Investment

- Why VS Code?
- How to get started?
- Simple Java Authoring
- More Complex Java Authoring
- Summary and key takeaways

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Why Visual Studio Code?

Text Editors

IDEs

- Keyboard centric
- Lightweight/fast
- File/folders
- Polyglot

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- Lightweight/fast
- File/folders
- Polyglot
- Code understanding
- Debug

- Project systems
- Integrated build
- Code understanding
- Debug
- Templates/wizards
- Designers
- ALM integration

How to Get Started?

Recommended Workflow for Java Developers

1. On a Mac? Just install it from https://code.visualstudio.com/
2. On a PC?
   A. Java for Windows? Just install it.
   B. Coming from Mac?
      a. Install WSL 2 https://docs.microsoft.com/en-us/windows/wsl/wsl2-install
      b. Install a GNU/Linux distribution from the Microsoft Store
      c. Install VS Code on the Windows side
      d. Install Remote Development Extension Pack https://code.visualstudio.com/docs/remote/wsl
3. Install the Java Extension Pack https://code.visualstudio.com/docs/java/java-tutorial

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Simple Java Authoring

- Learning how to learn VS Code
- What about “projects”?
- Runner and Debugger

Learning How to Learn VS Code

VS Code is a Front End to Everything Cool Happening in Azure

- Help is actually helpful
- Optimized for keyboard only lovers (but not quite Emacs)
- Help -> Welcome
- Learn
    - Find and run all commands
    - Interface overview
- Works with extensions
- Gitter chat room from Extension page for “Language Support for Java by RedHat”

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Let’s get a little into Java

Extremely Simple Project

- Wait, what about “projects”?
  - NetBeans: pom.xml is the project, or .nbproject
  - IntelliJ/Eclipse: Project with imported pom.xml
  - VS Code
    - Folder
    - Workspace

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Let’s get a little into Java

Extremely Simple Project

- Start From Maven Archetype
- Ctrl+Shift+P Java: Overview
    - Start
    - Create a Maven Project
    - Have access to the entire maven archetype catalog: **maven-archetype-quickstart**
- Breadcrumb navigation
- Outline
- File Browser
- Run Project
- Debug Project

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Let’s get a little into Java

Extremely Simple Project

- Get on the Update Train
    - Xiaokai He’s blog posts
        - https://devblogs.microsoft.com/java/java-on-visual-studio-code-update-january-2020/

        Peek call hierarchy

        Data breakpoints

        - https://devblogs.microsoft.com/java/java-on-visual-studio-code-november-update/

        Better symbol details

        - https://devblogs.microsoft.com/java/java-on-visual-studio-code-october-update/

        Inline refactoring

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A little more advanced

- Spring Petclinic
- Dependency viewer
- Ctrl T: Go go symbol: PetClinicApplication

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Summary and Key Takeaways

- VS Code is worth mastering
- Not trying to be IntelliJ
- But it probably does everything you need for Java
- And it fits today's reality that developers need to switch languages constantly
- https://code.visualstudio.com/

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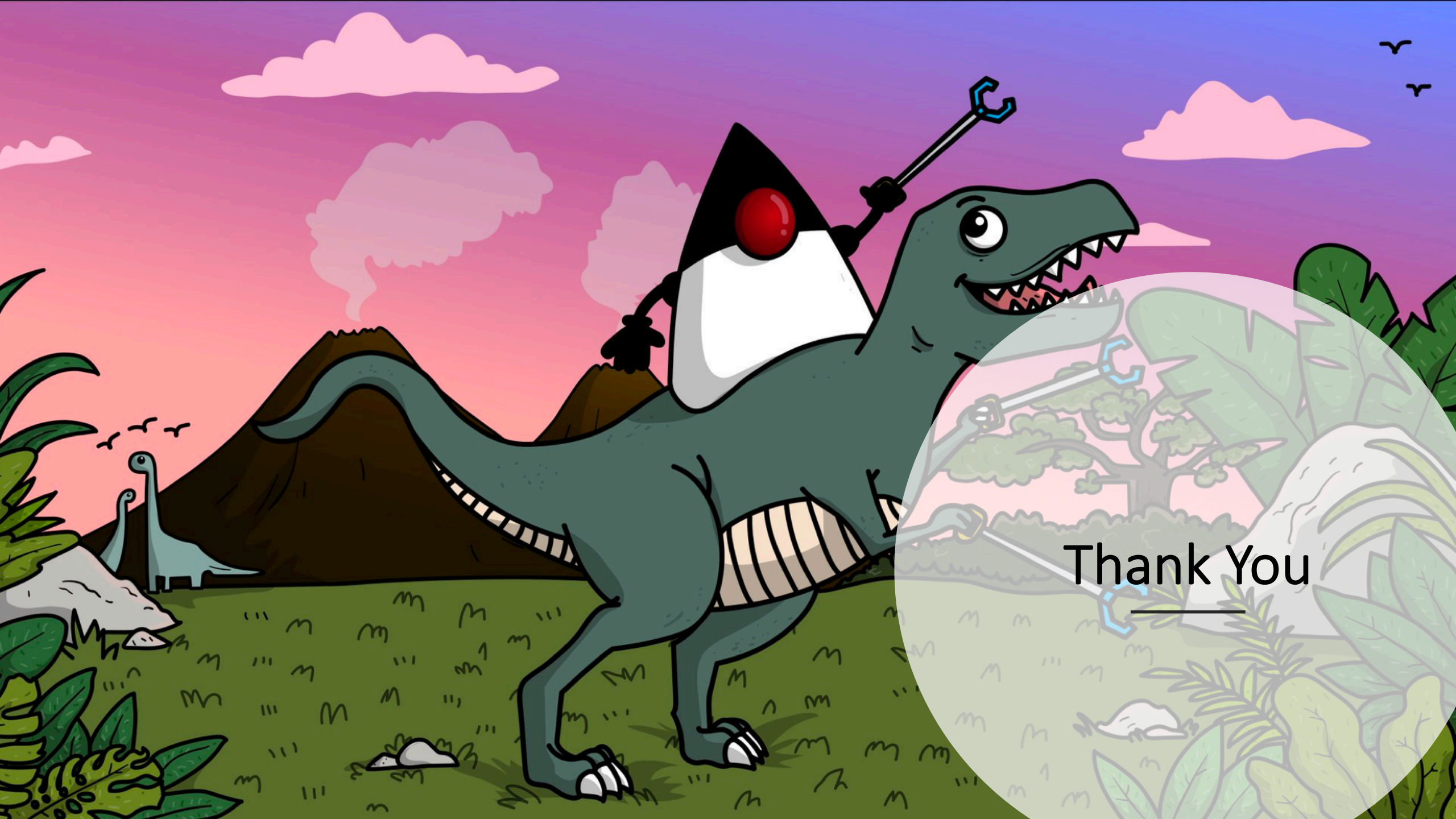
Thank You

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