

# The Eclipse IDE



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# Agenda

- what it is
- why IDEs are necessary in modern sw dev
- why IDEs are a pain
- what else can you use it for
- examples of java and c development
- links for more information

# what it is

- IDE – Integrated Development Environment
- came from an IBM project that was open-sourced (2001)
- written mostly in java
- assist/guide you during development by knowing what you can do and when

# why IDEs are necessary

- many layers of complexity in modern environments
- many potential methods/functions
- style templates can be enforced during dev
- can reduce knowledge required of the developer
- allow OO design to be conveyed to the developer

# why IDEs are necessary

- numerous tools/plug-ins exist to perform functions such as reformat, refactor, build, test, ...
- views available by directory, file type, method names
- integration with cm systems
- editor preferences can be set

# why IDEs are necessary

- autocompletion can help guide you to a destination (not necessarily the correct one...)
- can usually quickly find declarations, references and navigate more quickly than without them
- if you're an old-timer and you don't use one people might think you are stodgy and failing behind...

# why IDEs are necessary

- can reduce the learning curve on use the debugger
- errors detected in real time (not waiting for compilation)

# why IDEs are a pain

- significantly increase memory/cpu requirements
- require tool maintenance/training/setup/support
- likely require that overhead files be controlled in the cm repository

# why IDEs are a pain

- if you know what you're doing they can limit/constrain you
- you may need to ensure everyone is using the same version

# why IDEs are a pain



- you probably need a bigger monitor, maybe more than one

# what else can you use it for?

- custom plug-ins can be added to extend capabilities
- typing assistance (matching parens, braces, ...)

# java dev – demo and/or a movie!

- editing
- code assist
- quick fix

# c dev – demo and/or a movie!

- how to edit
- various menus/buttons
- code assist
- views
- debugging

# links

- [eclipse.org](http://eclipse.org)
- [eclipseplugincentral.com](http://eclipseplugincentral.com)
- [eclipsutorial.sourceforge.net](http://eclipsutorial.sourceforge.net)