Extending NetBeans

Hands-on

NetBeans is modular

- Everything in NetBeans is a plugin

- Can plugin any additional functionalities and tools

- Can unplug built in features too to declutter

Install a plugin

- Select Tools > Plugins and then switch to the 'Available plugins' tab.

- Search for 'pmd', tick 'easypmd' and click install.

- Go through wizard and 'Restart IDE Now'.

- Select Tools > Options and you will notice the EasyPMD tab.

- You have successfully installed a plugin!

Uninstall plugin

- Select Tools > Plugins and then switch to the 'Installed' tab.

- Check 'EasyPmd' and press the uninstall button.

- Go through wizard and select 'Restart Now'.

- Select Tools > Options and you will notice the EasyPMD tab is no longer there.

- You have successfully uninstalled a plugin.

Plugins

- NetBeans comes with built-in plugins

- NetBeans has a market of plugins built by other users (free and premium)

- Can build your own

NetBeans provides a platform

- Tutorial and documentation provided:https://platform.netbeans.org/tutorials/nbm-google.html

- Modularity allows easy integration (simple plug and play)

- Setup wizards to get you started

A plugin example

Let's build a plugin together

Your turn

- https://platform.netbeans.org/tutorials/nbm-google.html

- File > New Project

- Select 'NetBeans Modules' > 'Module' and click next.

- Name your project, click next and enter your code name base e.g 'org.netbeans.timer'.

- Click finish

- Right click on your module in the 'Projects' tab and select New > Action...

- Select Next > Change Category and Menu to 'View'. Click Next.

- Enter a class name and display name e.g HelloWorld

- Right-click your package under projects and then select New > Other... > Module Development > Window > Next > Enter class name e.g HelloWorld. Click Finish

- Add a JLabel to your panel and set text to 'Hello World'.

- In your HelloWorld class (action class) enter the following code:

  TopComponent myComponent = new HelloWorldTopComponent();
  myComponent.open();

- Right-click module and click 'Clean and Build'. Right click again and click Run. A New NetBeans window should open.

- In the new IDE, select View > Hello World. You have created your own first plugin!

Lets add time to our plugin

Can build your own NetBeans application

- An Application consists of multiple modules

Next challenges

- Build a google toolbar using this tutorial: https://platform.netbeans.org/tutorials/nbm-google.html

- Pomodoro timer

- Stopwatch

- Something else