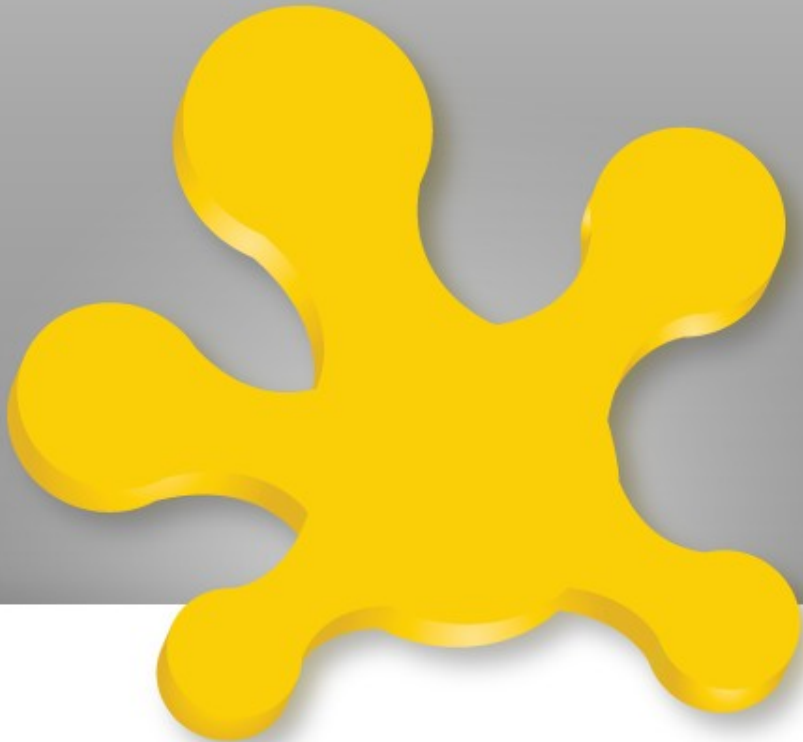


Krzysztof Daniel, Jakub Jurkiewicz

Eclipse Architecture



Let's move the Java world!



Not just an IDE...

The image shows the Eclipse IDE interface. The main window displays the source code for `Snippet48.java`. The code includes a package declaration, a copyright notice, and a `main` method that creates a `Display` and a `Shell` with a `FileDialog`. A `Snippet48` class is defined with a `main` method that creates a `Display` and a `Shell` with a `FileDialog`. The `Snippet48` class is highlighted in the class hierarchy view, which shows its methods and the `handleEvent` method.

```
package org.eclipse.swt.snippets;

/*
 * Canvas example snippet:
 * For a list of all SWT e
 * http://www.eclipse.org/
 */
import org.eclipse.swt.*;

public class Snippet48 {

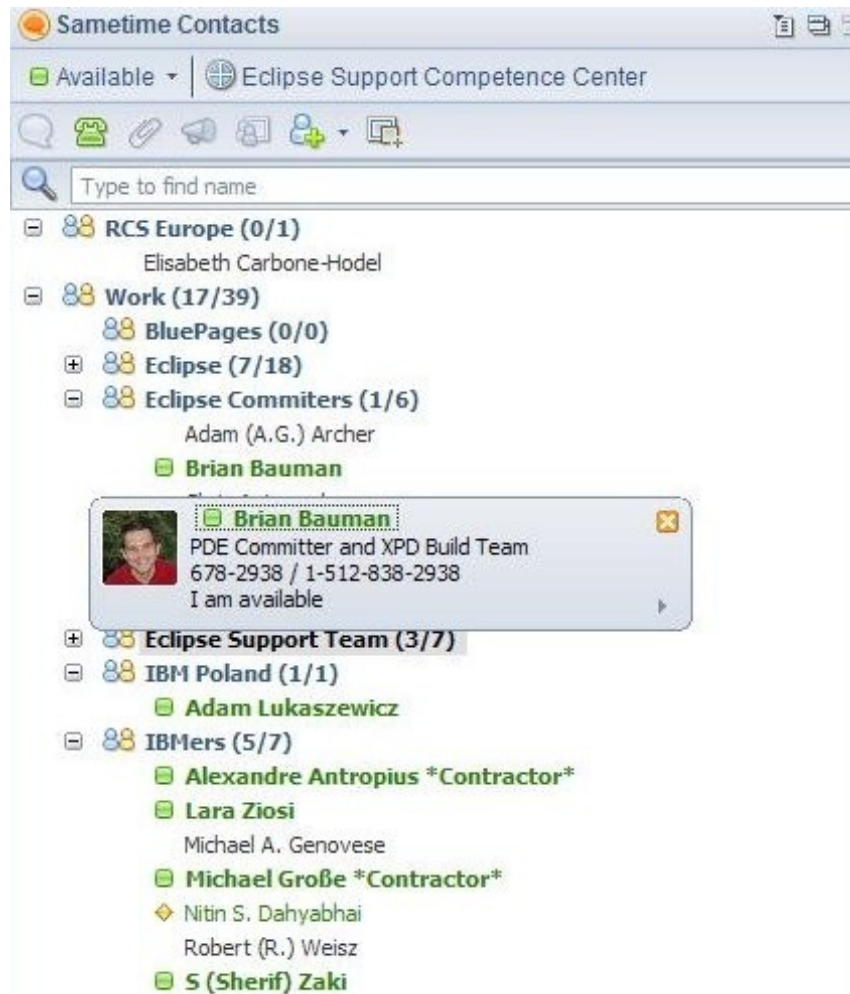
    public static void main (S
        Display display = new
        Shell shell = new Shel
        shell.setLayout(new Fi
        Image originalImage =
        FileDialog dialog = ne
        dialog.setText ("Open

import
public
public
    Di
    Sh
    sh
    Im
    Fi
    di
```

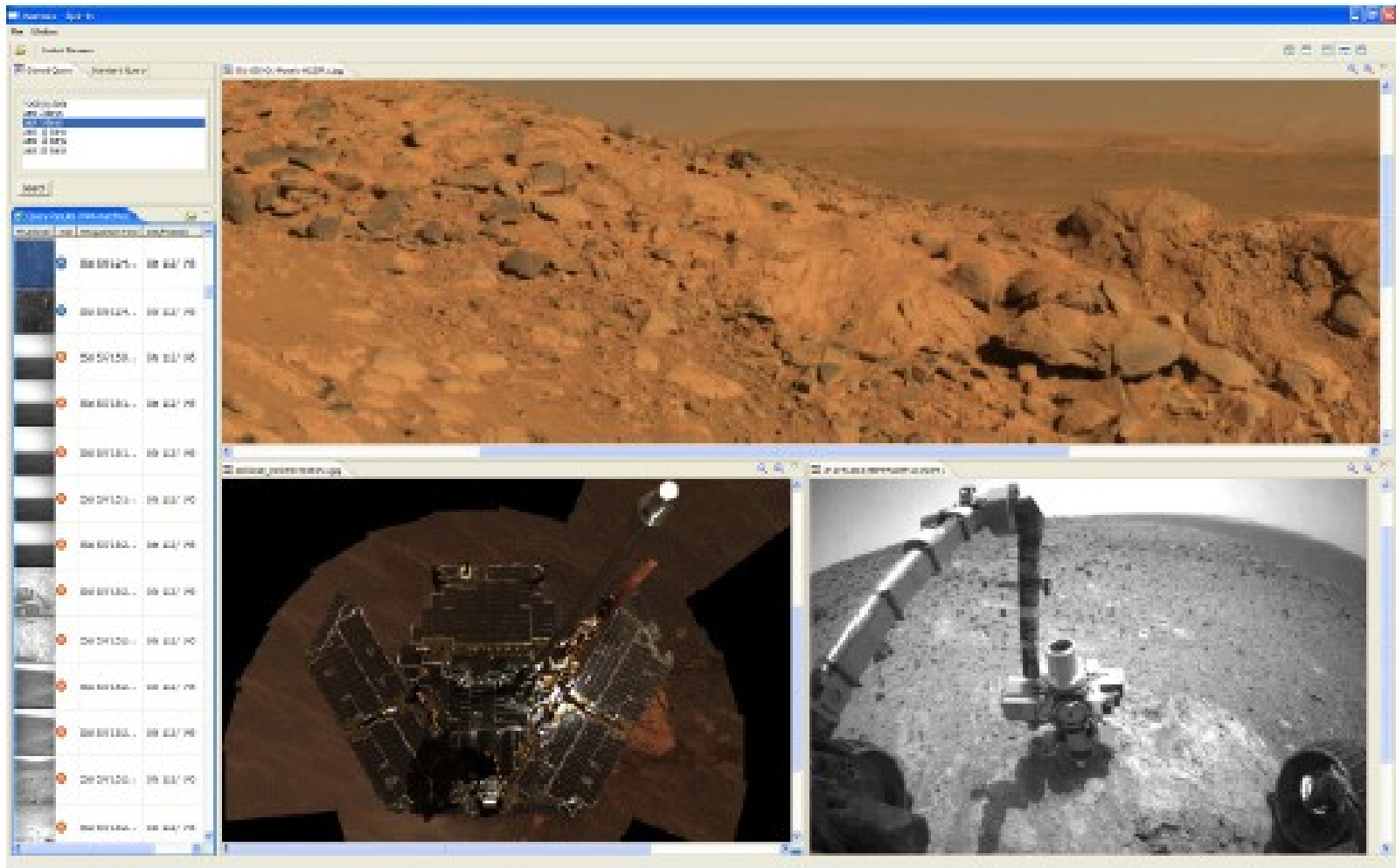
Let's move the Java world!



...but also...



...but also...



...but also...

The screenshot displays the IBM Lotus Notes interface. At the top, there's a menu bar with 'File', 'Edit', 'View', 'Action', 'Tools', 'Window', and 'Help'. Below it are navigation tabs for 'Welcome', 'Mail', 'Activities', 'Calendar', 'Contacts', and 'Sales Leads'. The main area shows a list of activities with columns for Name, Type, Modified By, and Modified. A detailed view of the 'OP Tools deal' activity is shown below the list, including fields for Created, Created by, Modified, Modified by, Shared With, Sales Leads, Meetings, Communications, Contracts, and Other Documents. The right sidebar contains panels for 'Related Activities', 'Contacts', 'Related Feeds', and 'Calendar'.

Name	Type	Modified By	Modified
2 Can you take a look at this?	Activity	Sam Curman	Today 2:54 PM
4/30/05 Anna Bauer	Voice notes	Anna Bauer	Today 12:54 PM
New product drawing	Shared screen	Anna Bauer	Today 12:48 PM
25 Miami Properties deal	Activity	Sam Curman	Today 2:15 PM
12 OP Tools deal	Activity	Sam Curman	Today 1:52 PM
Sales Lead: OP Tools	Sales Lead	Anna Bauer	Today 9:13 AM
More on OP Tools deal	E-mail thread	Sam Curman	Today 1:52 PM
Competitive products	Document	Pierre Dumont	Today 10:33 AM
OP Deal Meeting	Meeting	Laura Klein	Yesterday 11:01 AM
5/01/05 Sam Curman	Chat	Sam Curman	Yesterday 3:54 PM
Meeting with Monifa	Meeting	Monifa Shani	4/29/05 2:01 PM
Contract Drafts	Folder	Larry Moriarty	4/29/20 10:26 AM
OP Tools Meeting	Meeting	Sam Curman	4/28/05 3:20 PM
13 J&F Deal	Activity	Lukas Geiger	Yesterday 3:10 PM

OP Tools deal

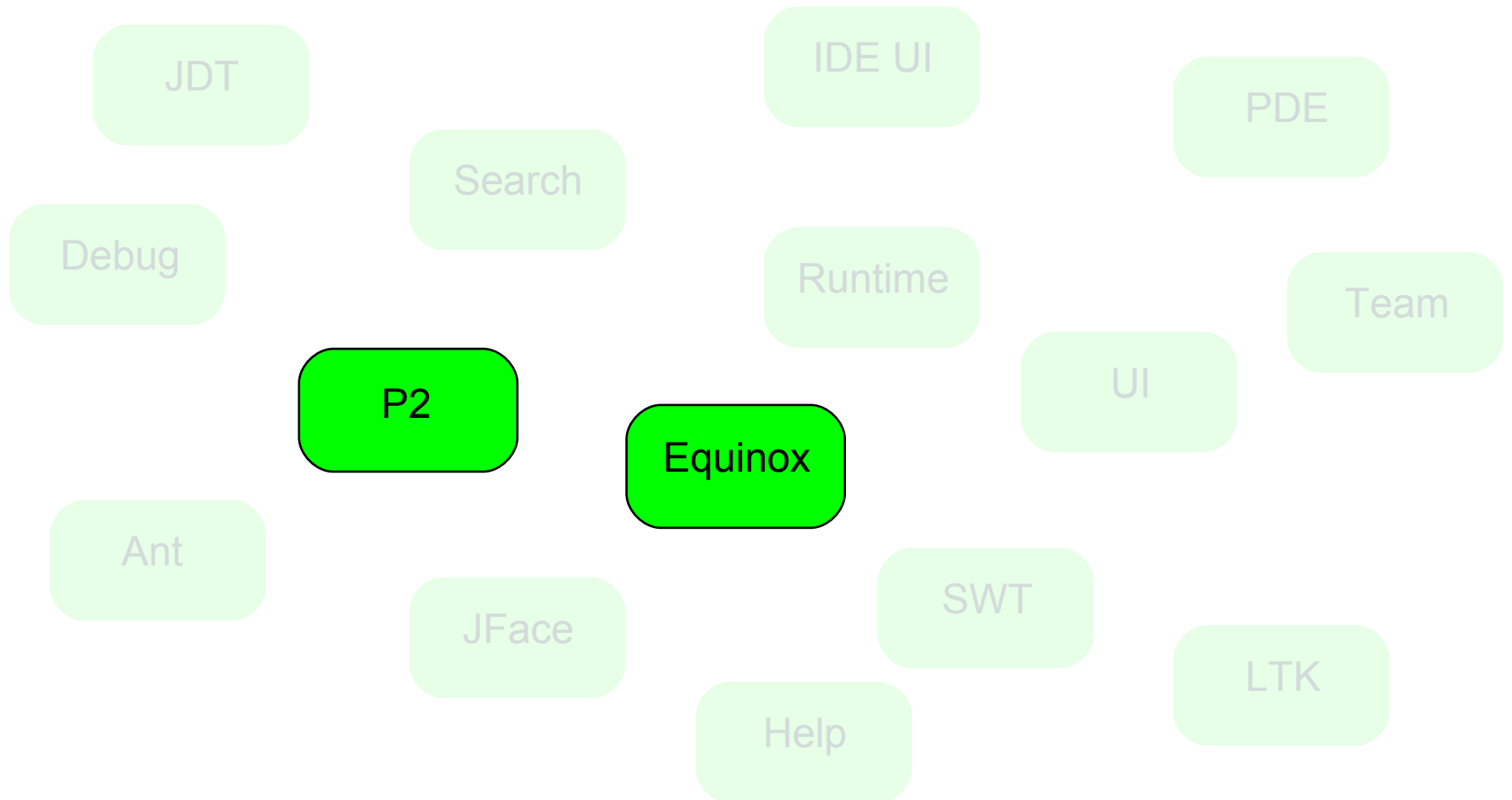
Created	4/28/05	Sales Leads	Sales Lead: OP Tools
Created by	Sam Curman	Meetings	OP Deal Meeting
Modified	Today, 1:52 PM		Meeting with Monifa
Modified by	Laura Klein		OP Tools Meeting
Shared With	Pierre Dumont	Communications	5/01/05 Sam Curman
	Anna Bauer		More on OP Tools deal
	Monifa Shani	Contracts	Contract Drafts
	Lukas Geiger	Other Documents	Competitive products
	Sam Curman		

Add to Activity | Add to Category | Add Member | 1 of 12

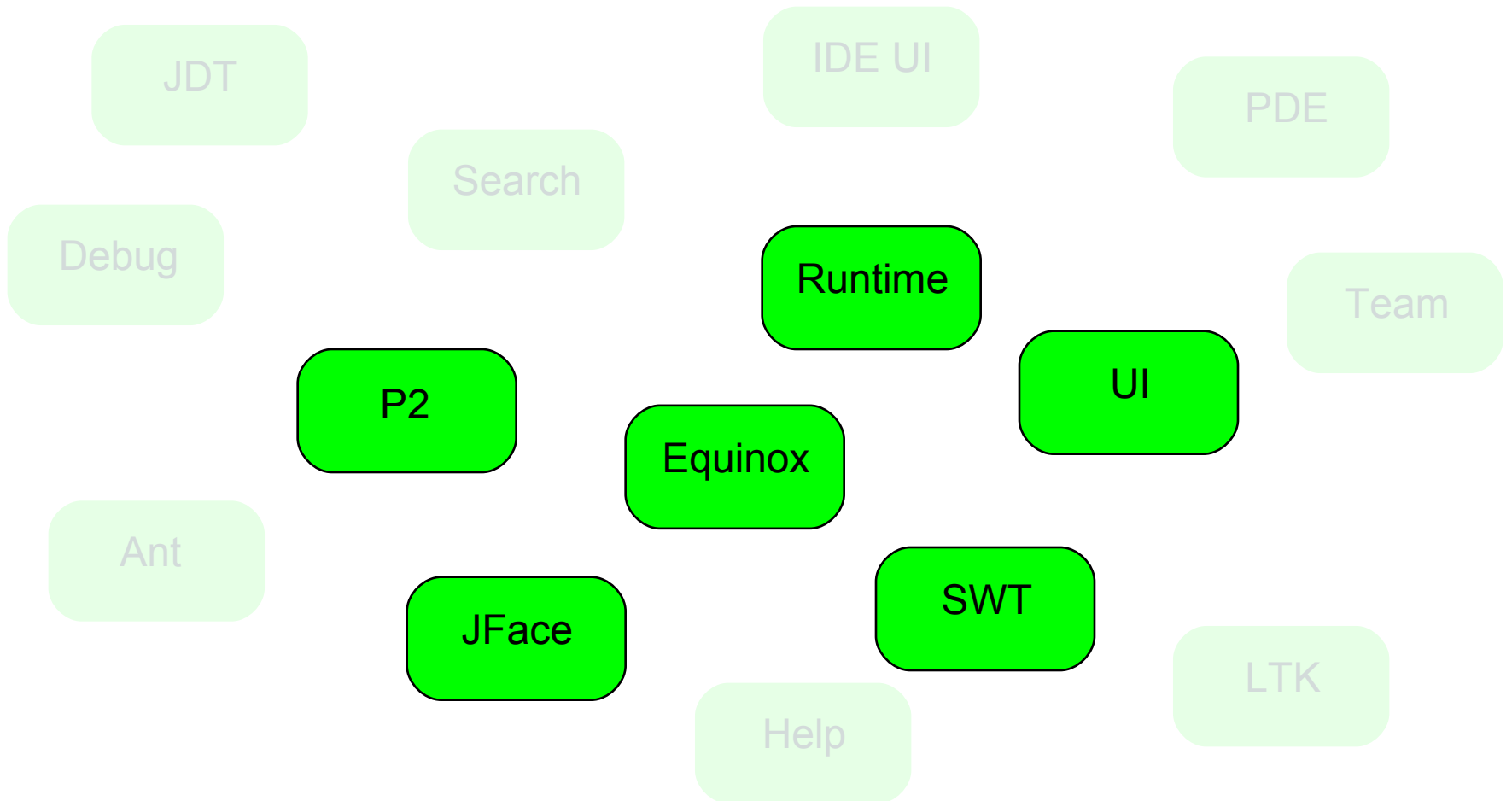
Let's move the Java world!



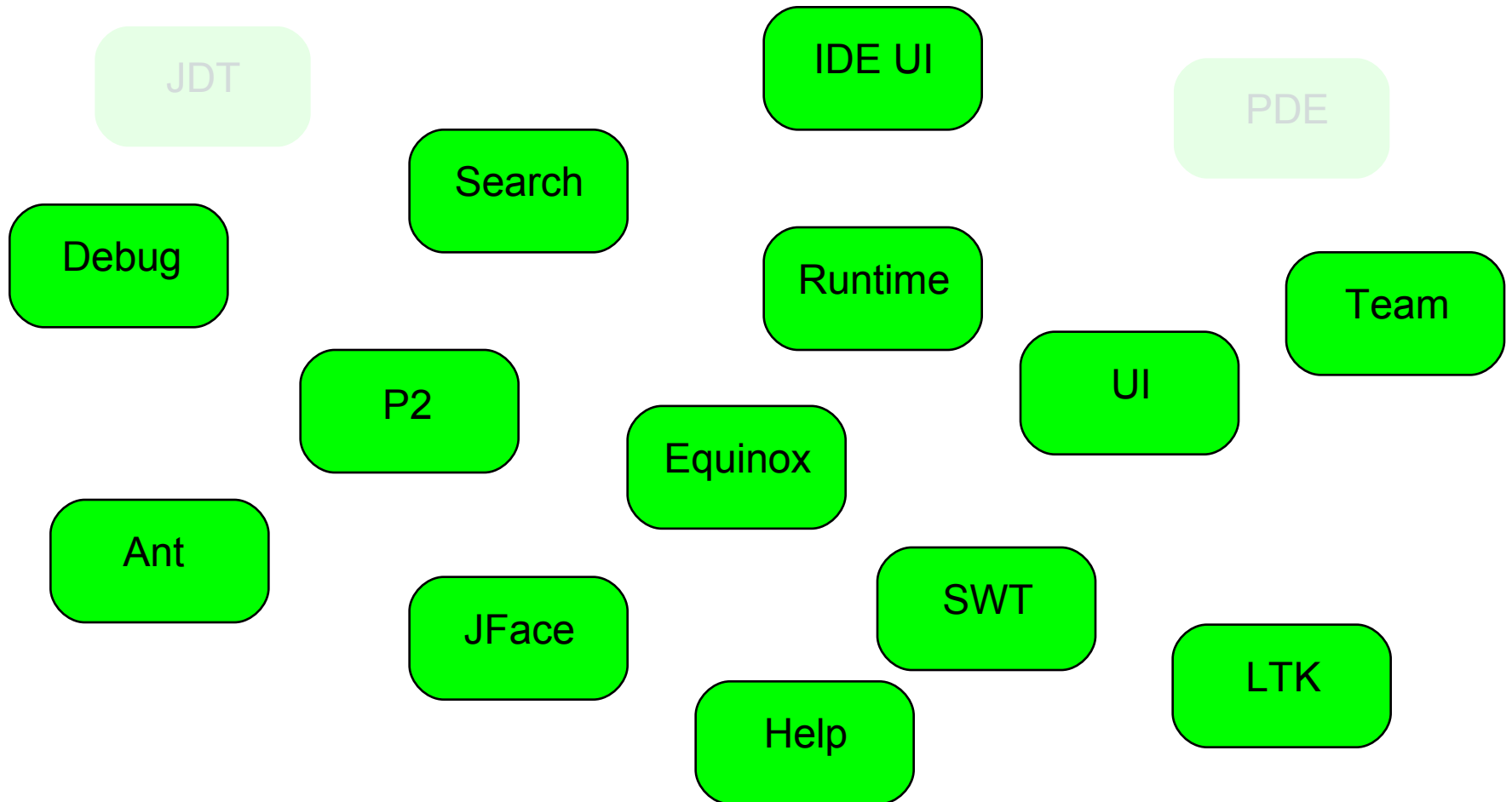
Rich Server Platform



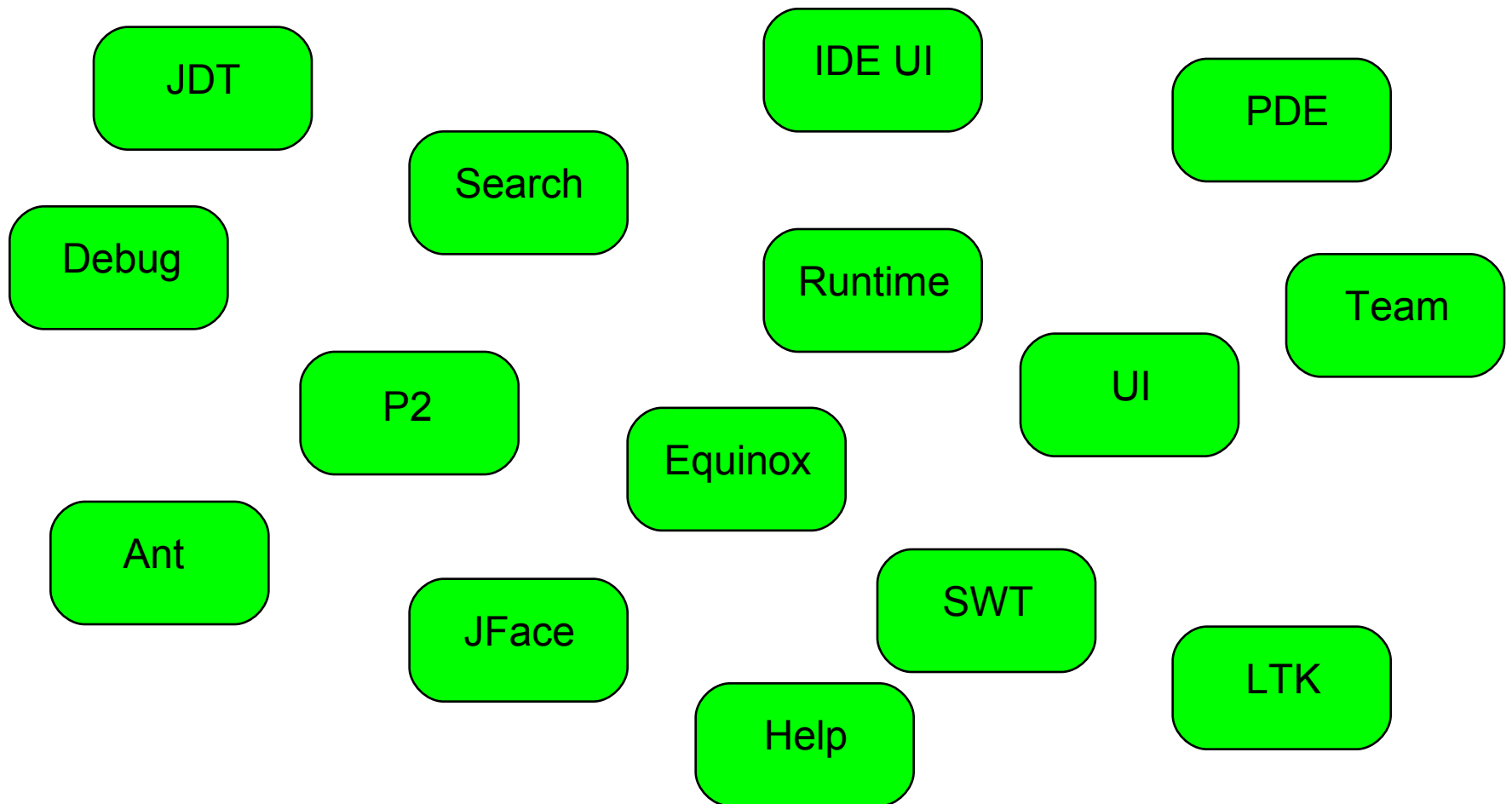
Rich Client Platform



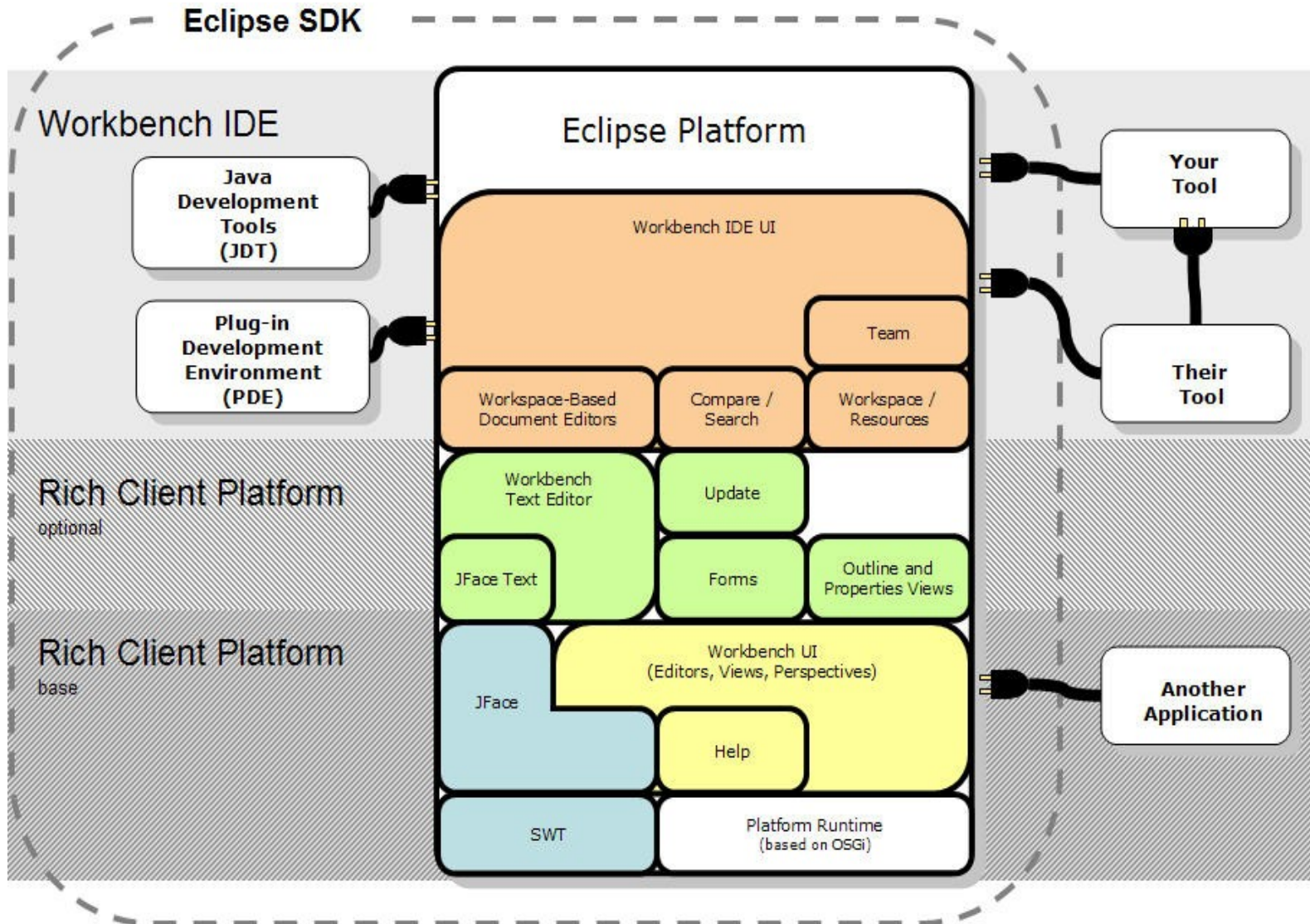
IDE Components



IDE specific Components



Architecture



Extensions and Extension points

- Extension Points allow that functionality is contributed to a specific plugin which defines this extension point.
- The functionality can then be contributed by any plugin which defines an extension for the defined extension point.
- Extension Point: Defines the possibility to add functionality.
- Extension: Uses the extension point to provide functionality, also known as contributions

Example of Extensions and Extension points

- `org.eclipse.ui.views` knows how to display and control life cycle of every view
- `org.eclipse.ui.editors` knows how to display and control life cycle of every view
- Remember that you can create your own extension points!

Let's create new View

Example of Extension point

- Download the project from:
<http://www.cs.put.poznan.pl/jjurkiewicz/GeeCon/ExampleExtensionPoint.zip>
- The project defines an extension point
- Let's have a look at the extension point definition
- Let's create the Hello World Contributor!

Q & A