Writing BETTER code with NetBeans

Mark Stephens IDRsolutions

Who is talking...

- Entrepreneur and founder of UK based software company IDRsolutions
- Using Java since 1997 and have used Vi, JBuilder, VisualCafe, Eclipse, IDEA, NetBeans
- Work with PDF, HTML5, SVG in Java and JavaFX
- Day job a Java PDF library and PDF2HTML5/SVG converter
- I have a History degree...

Ask me about NetBeans, JavaFX, Java, HTML5, SVG, PDF, or anything which happened before 1500AD



My talk will cover...

- NetBeans is not just for Java
- All the Java tools you will ever need.
- Debugging code with NetBeans
- NetBeans and Ant (I might mention Maven)
- Automated Testing with NetBeans
- Tips for writing better code quicker with NetBeans
- Other Code quality plugins
- Something about cats

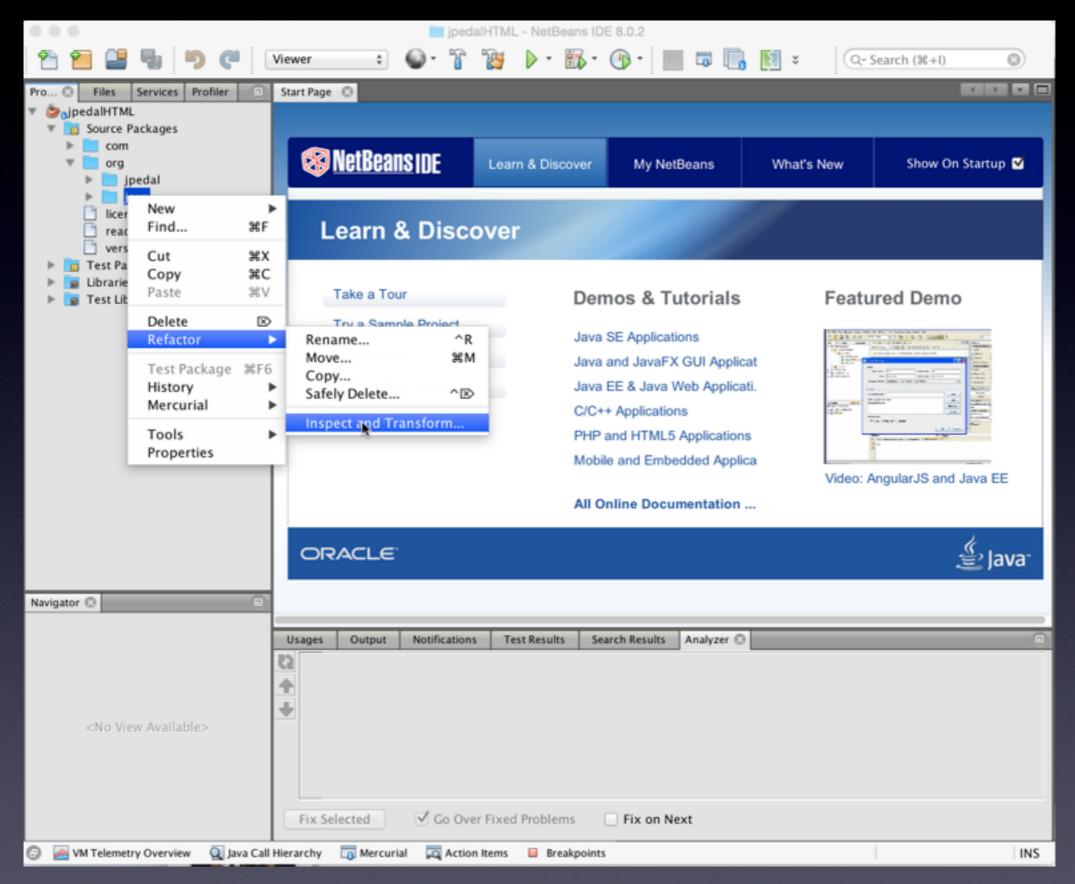


What is better code?

- Faster to write
- Faster to run
- Less 'buggy'
- · Looks likes Mark Reinhold wrote it
- Makes sense to a 7 year old
- Easy to maintain
- More fun to write
- Shorter
- More verbose
- Simpler
- I know it when I see it...



Context matters

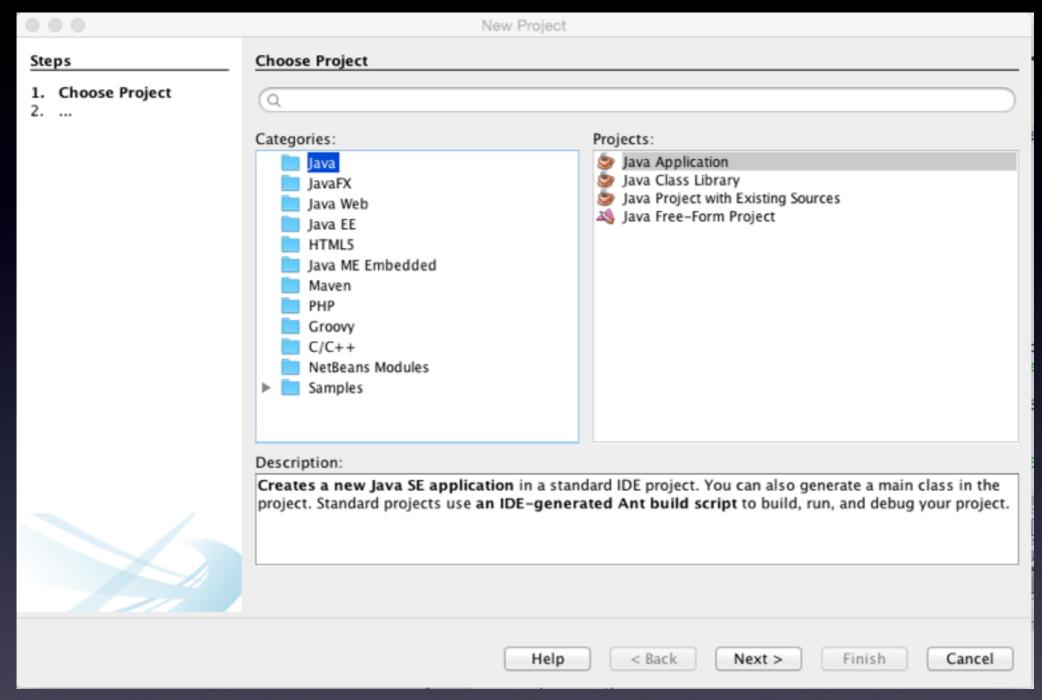


The NetBeans 'family'

NetBeans IDE 8.0.2 Dow	nload				8.0.1	8.0.2 Develop	oment Archiv
	Weekly n contact me at this addre	IDE Lang	age.	plish lote: Gre		orm: Mac OS X gies are not suppor	ted for this platfo
		NetBeans IDE Download Bundles					
Supported technologies *		Java SE	Java I	EE	C/C++	HTMLS & PHP	All
NetBeans Platform SDK							•
Java SE							•
⊕ Java FX							•
Java EE							
® Java ME							_
® HTMLS							
							_
® C/C++					•		•
® Groovy							•
® PHP						•	•
Bundled servers							
GlassFish Server Open Source Edition 4.1			•				•
Apache Tomcat 8.0.15			•				•
		Download	Downlo	bad	Download	Download	Download
		Free, 105 MB	Free, 22	2 MB	Free, 72 MB	Free, 72 MB	Free, 243 MB
You can add or remove packs later usin	g the IDE's Plugin Manac	per (Tools Plugins		Imports	ent Legal Informa	rtion:	
Java 7 and later versions are required for installing and running th NetBeans Bundles. You can download the latest Java at java.com JDK 7 and later versions are required for installing and running the All NetBeans Bundles. You can download standarone JDK or dow NetBeans IDE Java SE bundle.		ne PHP and C/C++ Du Dis a Java SE, Java EE and Lio miced the latest JCK with Lio		NetBea Dual Lic Distribu License compor License	NetBeans Community Distributions are available under a Dual License consisting of the Common Development and Distribution License (CDDL) v1.0 and GNU General Public License (GPL) v2. Such distributions include additional components under separate licenses identified in the License file. See the Third Party License file for external components included in NetBeans and their associated		
You can start developing applications b NetBeans IDE for Java SE. Learn more source code and binary builds without b format. See also instructions on how to instructions.	about the NetBeans Plat undled runtimes are also	form. NetBeans available in zip file		licenses	s.		

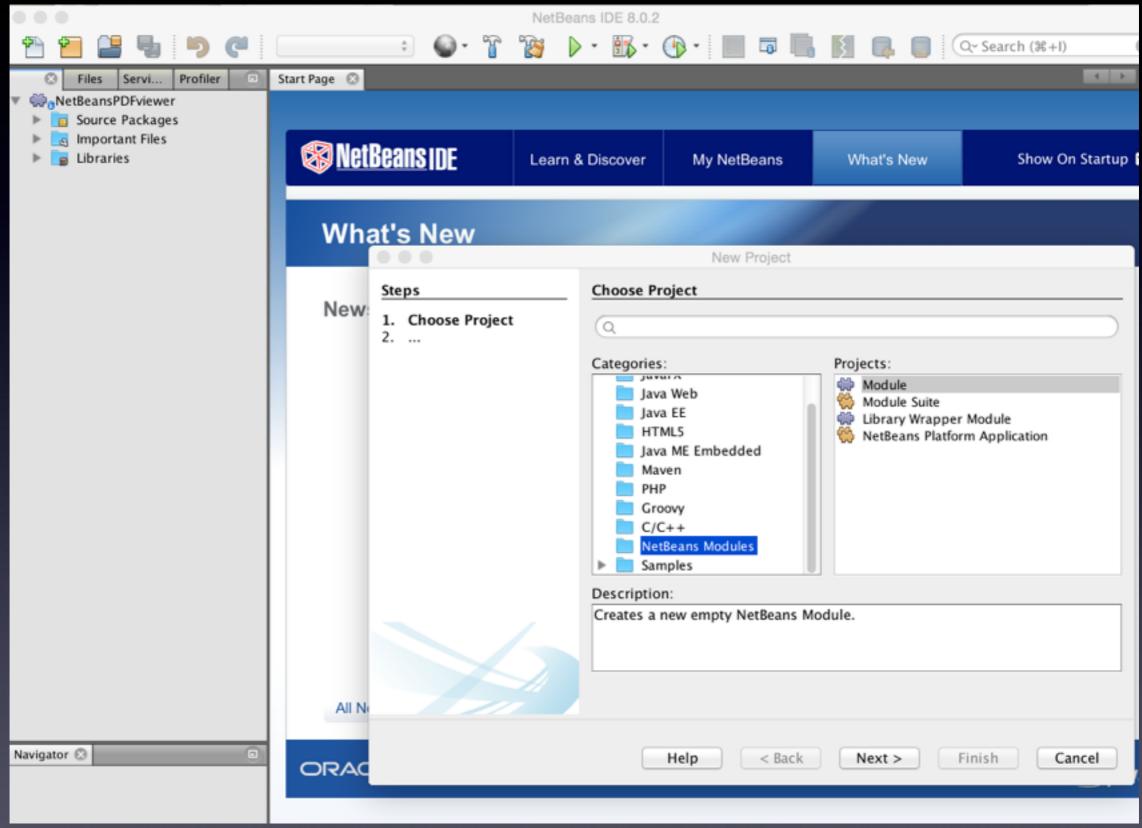
IDE, SDK, Framework or Platform?

NetBeans Projects

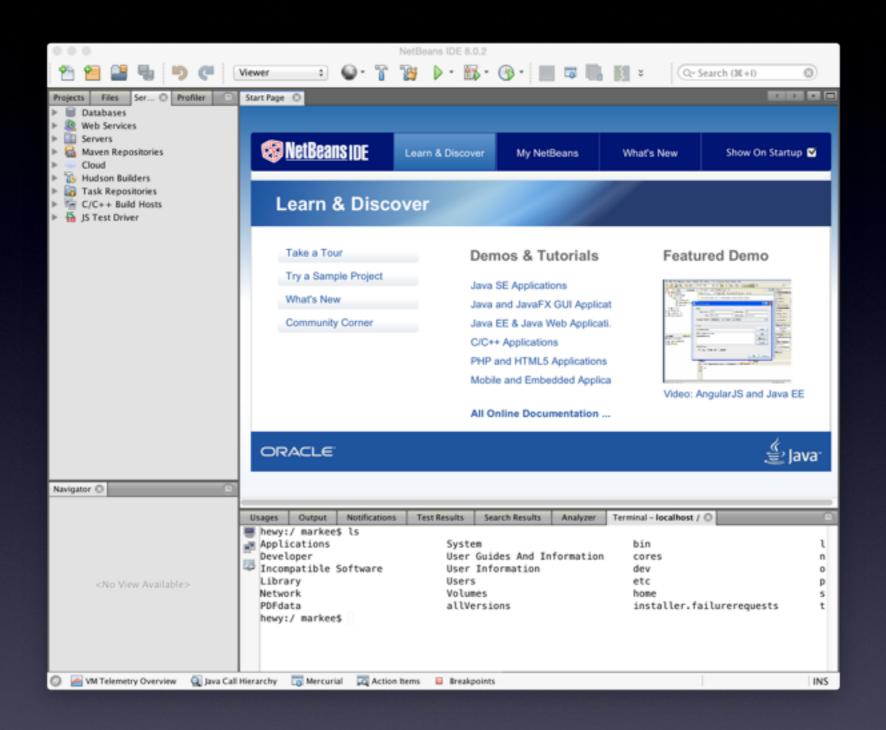


You can have multiple projects all open at once Add other languages with Plugins (ie Android)...

Plugin Projects

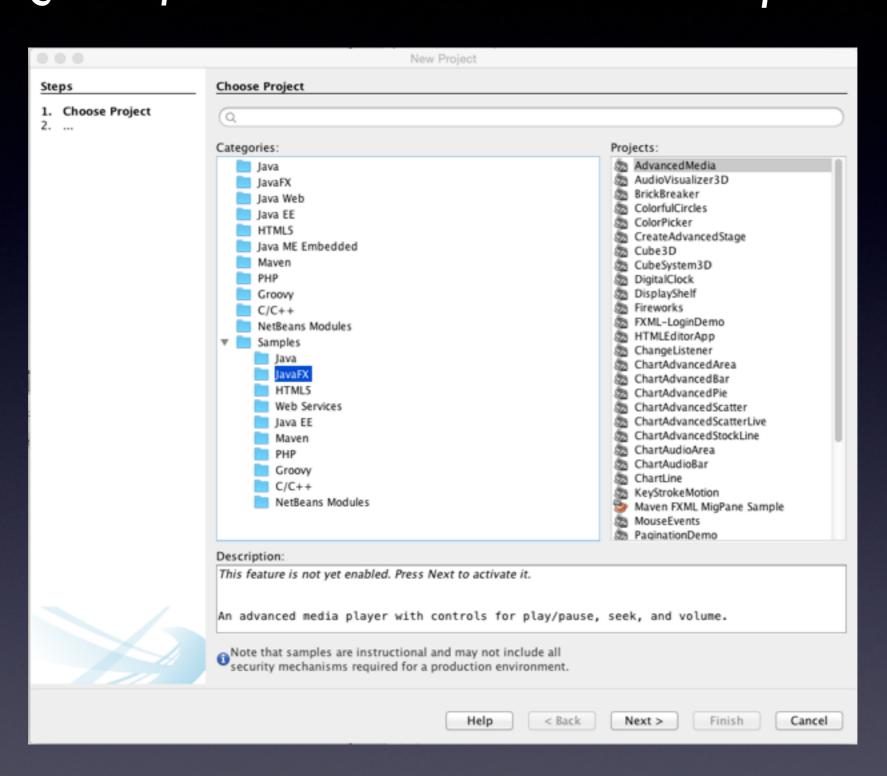


You can live inside NetBeans



Integration to Start Page, services, plugins, even a shell..

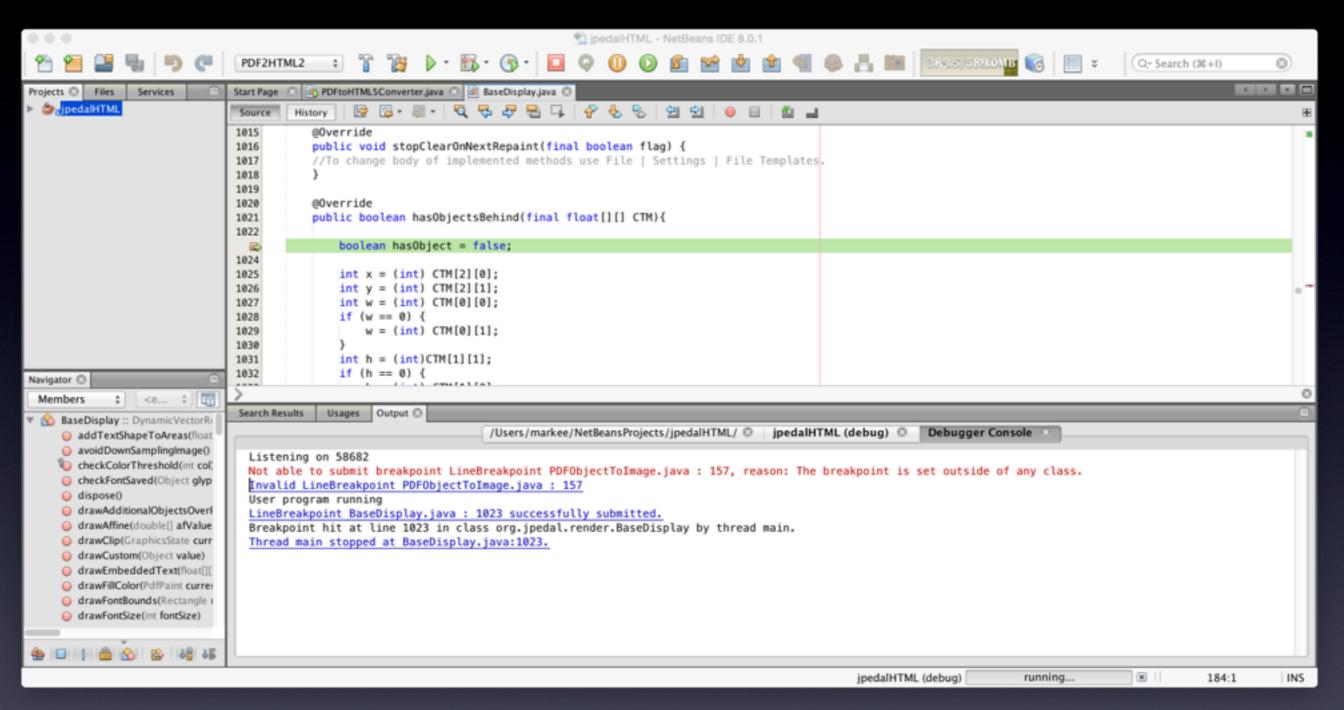
Good artists copy, great artists steal! Quote from Pablo Picasso Mark Stephens



Debugging code

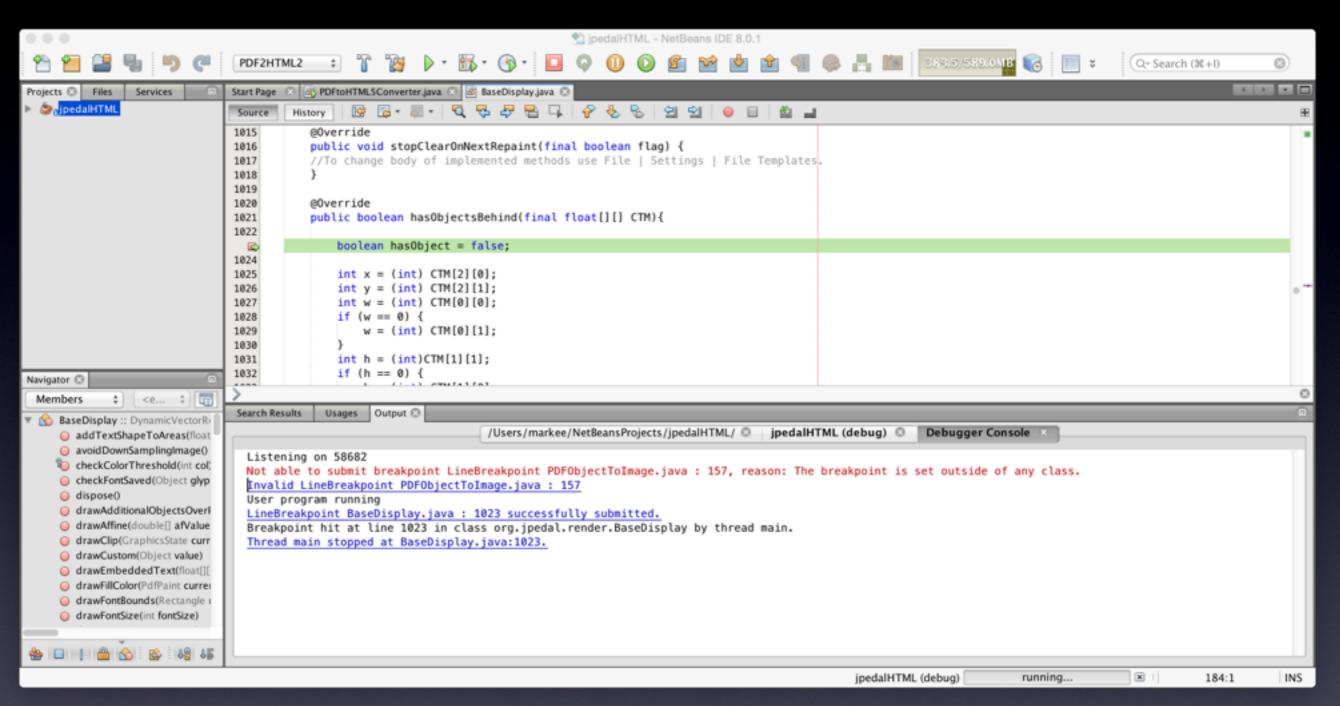
```
🐑 Fireworks - NetBeans IDE 8.0.2
                                                                                                Q~ Search (#+1)
          🏘 Fireworks.java 😢
Start Page
                     History
Source
108
                  // create canvas
109
                  canvas = new Canvas(1024, 500);
110
                  canvas.setBlendMode(BlendMode.ADD);
111
                  canvas.setEffect(new Reflection(0,0.4,0.15,0));
112
                  background = new ImageView(getClass().getResource("sf.jpg").toExternalForm());
113
                  getChildren().addAll(background,canvas);
 4
                  // create animation timer that will be called every frame
115
                  // final AnimationTimer timer = new AnimationTimer() {
116
                  timer = new AnimationTimer() {
117
118
                      @Override public void handle(long now) {
 1
                          GraphicsContext gc = canvas.getGraphicsContext2D();
120
                          // clear area with transparent black
121
                          gc.setFill(Color.rgb(0, 0, 0, 0.2));
122
                          gc.fillRect(0, 0, 1024, 708);
 124
                          // draw fireworks
125
                          drawFireworks(gc);
                          // countdown to launching the next firework
126
                          if (countDownTillNextFirework == 0) {
127
128
                              countDownTillNextFirework = 10 + (int)(Math.random()*30);
                              fireParticle();
129
130
                          countDownTillNextFirework --;
131
132
                  };
133
134
135
              public void start() { timer.start(); }
136
              public void stop() { timer.stop(); }
137
```

Version control



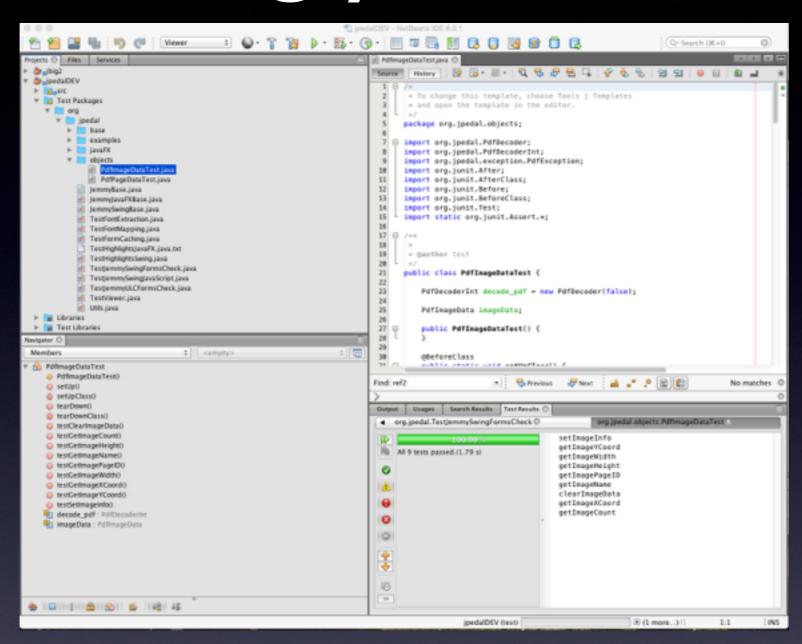
Note the toolbar is configurable....

NetBeans and Ant



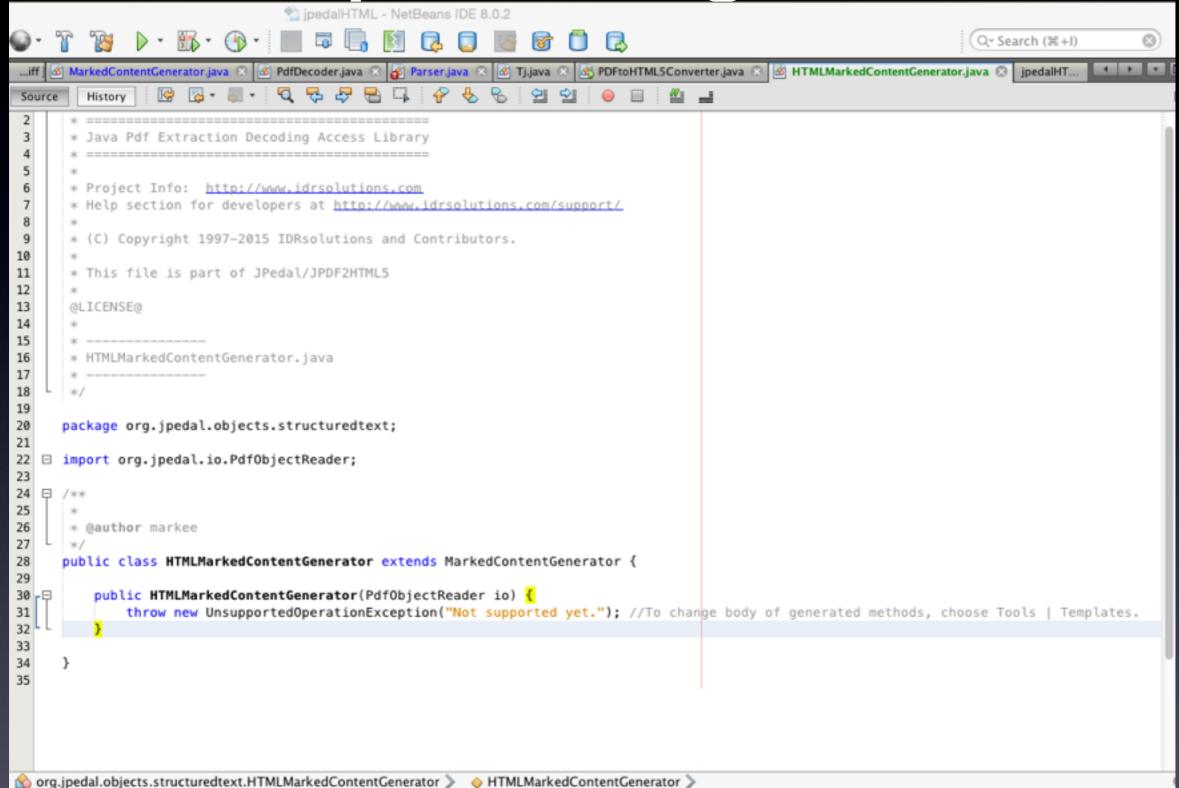
NetBeans is an Ant wrapper...

Testing your code



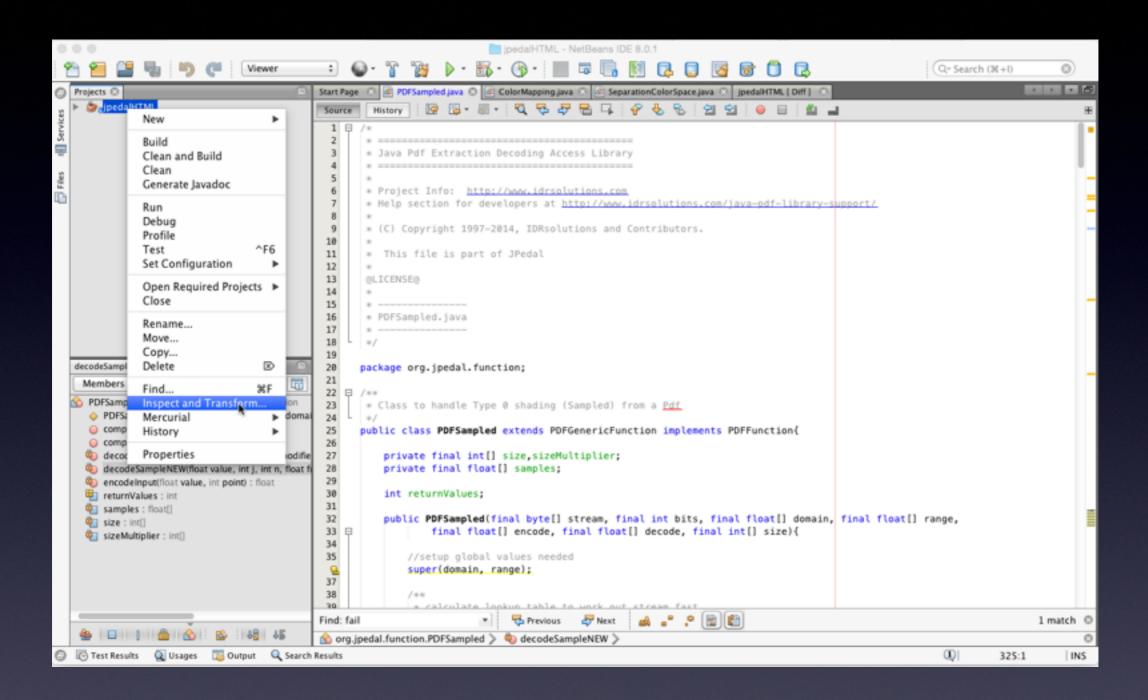
JUnit/Jemmy tests easy to create/run in NetBeans and script for Continuous Integration

Help writing code

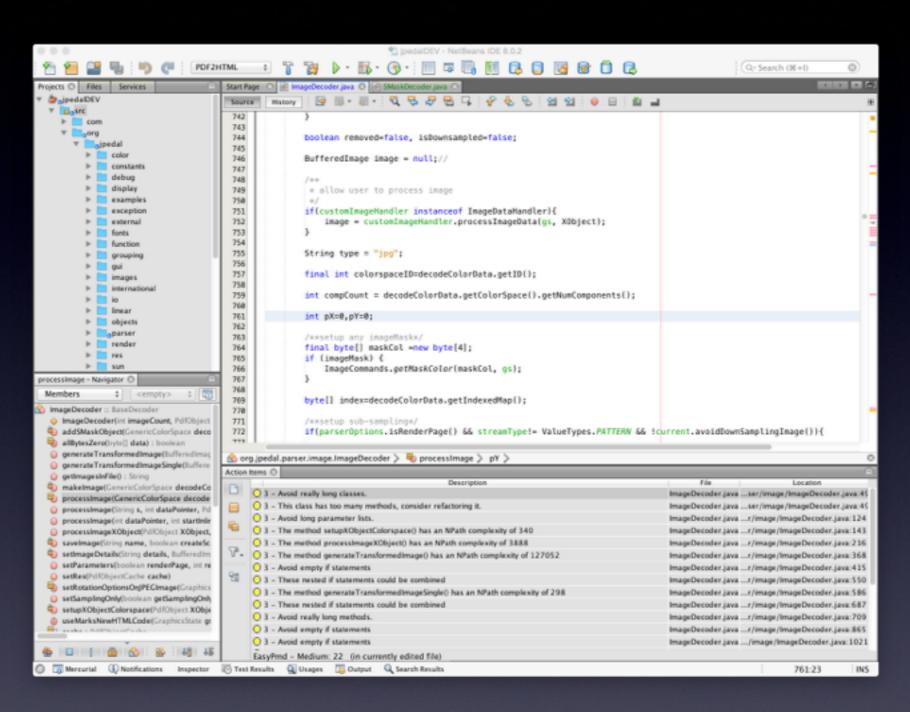


Lots of little features you often miss

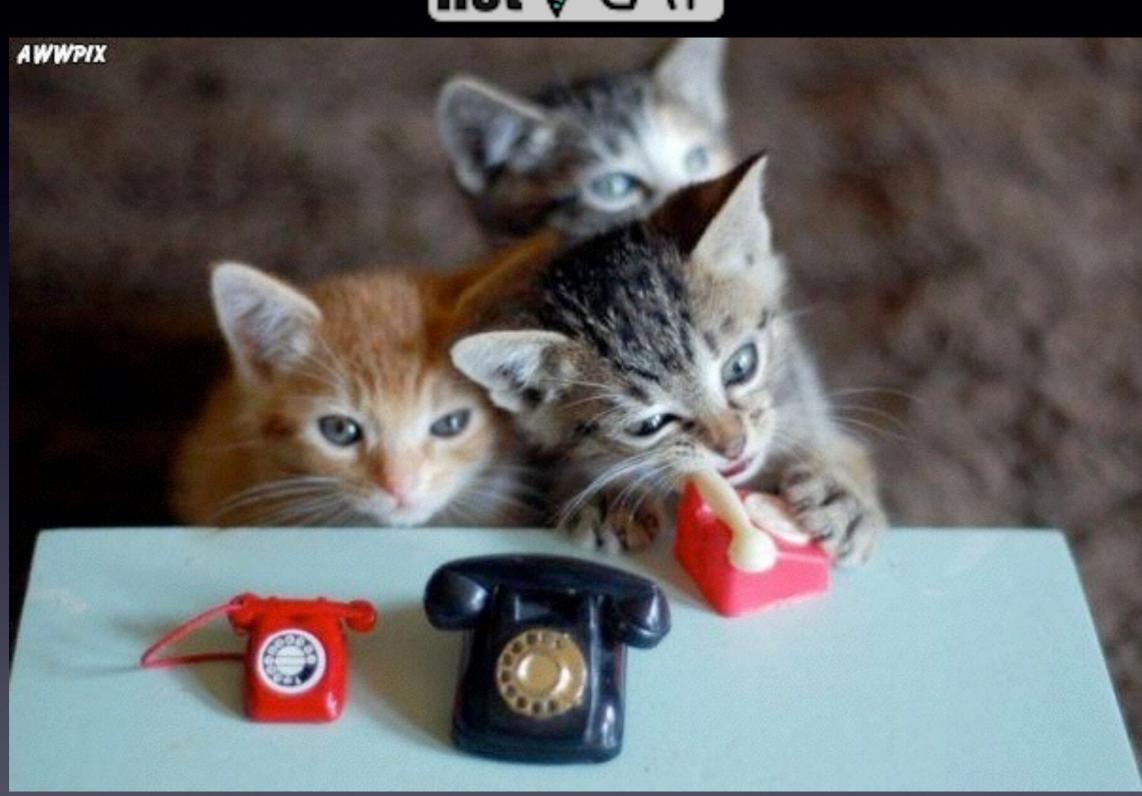
Inside NetBeans



Code quality







Details and links

http://www.netbeans.org

https://convert.idrsolutions.com

https://blog.idrsolutions.com

Come and chat to me

Blatant plug for my plugin talk...

Happy developing with NetBeans....

