

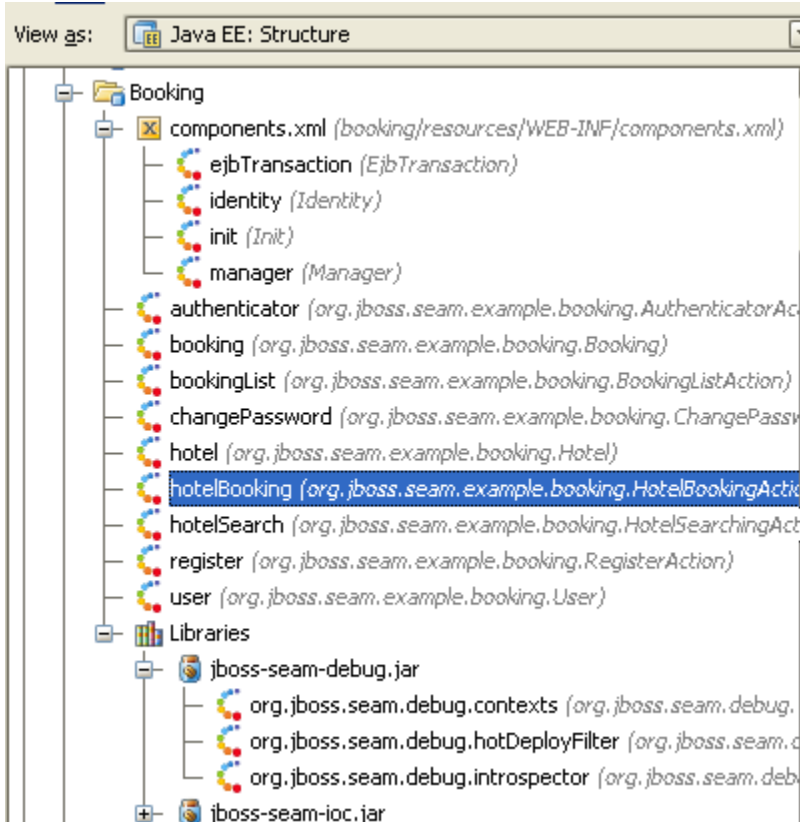
# Diana First EAP Release Notes

## Plugin Compatibility

Due to a major internal refactoring, we have made a significant number of backward incompatible changes to the plugin API. Please refer to [Diana Plugin Migration Guide](#) for help in updating existing third-party plugins.

## Seam Support

### 1. Seam Facet and Seam Components Structure(Java EE)



### 2. Alt-F7, Shift-F6 and EL everywhere

```

@Name("blog")
@Scope(ScopeType.STATELESS)
@AutoCreate
public class BlogService
{
    @In EntityManager entityManager;

    @Unwrap
    public Blog getBlog()
    {

```

Find Usages of in Project Files

- Seam Component
  - Seam Component blog
  - Found usages {18 usages}
    - Unclassified usage {17 usages}
      - Blog {17 usages}
        - C:\WORK\idea\_projects\seam\_samples\blog\
          - entry.xhtml {2 usages}
            - {20, 47} <f:convertDateTime timeZone=
            - {20, 73} <f:convertDateTime timeZone=
          - index.xhtml {3 usages}
          - print.xhtml {4 usages}
          - search.xhtml {2 usages}
          - template.xhtml {5 usages}
        - pages.xml {1 usage}
          - {1, 3} #{blog.hitCount.hit}
      - Usage in string constants {1 usage}

```

<div class="blogEntry">
    <h3>#{blogEntry.title}</h3>
    <div>
        <s:formattedText value="#{blogEntry.body}" />
    </div>
    <p>
        <h:outputText value="
            <f:convertDateTime timeZone="#{blog.timeZone}" locale="#{blog.loc
        </h:outputText>]
    </p>
</div>

```

v	blog	Blog
v	blogEntry	BlogEntry
v	blogEntryService	BlogEntryService

```
}
```

```
public String saveUser() {  
    if (!isValidNamePassword()) {  
        facesMessages.add("User name #{customer.userName} is not unique");  
        return null;  
    }  
  
    try {  
        em.persist(customer);  
        sessionContext.set("currentUser", customer);  
        Actor.instance().setId(customer.getId());  
  
        identity.setUsername(customer.getUserName());  
        identity.setPassword(customer.getPassword());  
        identity.login();  
    }  
}
```

(m)	address1	String
(m)	address2	String
(m)	admin	boolean
(m)	city	String
(m)	class	Class<...>
(m)	creditCard	String
(m)	creditCardExpiration	String
(m)	creditCardMonth	int
(m)	creditCardType	Integer
(m)	creditCardTypeString	String
(m)	creditCardYear	int

### 3. Inspections

```
@Scope(EVENT)  
@Name("authenticator")  
public class Authenticator  
{  
    @In Blog blog;  
    @In Identity identity;  
    @In Identity blogEntryService;  
    public boolean authenticate()  
    {  
        return blog.getPassword().equals(identity.getPassword());  
    }  
}
```

'BlogEntryService' context variable type is not assignable to 'Identity' [more...](#) (Ctrl+F1)

### 4. Conversations, Observers and many others

```

@Logger
private Log log;

@Factory
@Observer("bookingConfirmed")
@Transaction
public void
{
    bookings
        .list();
}

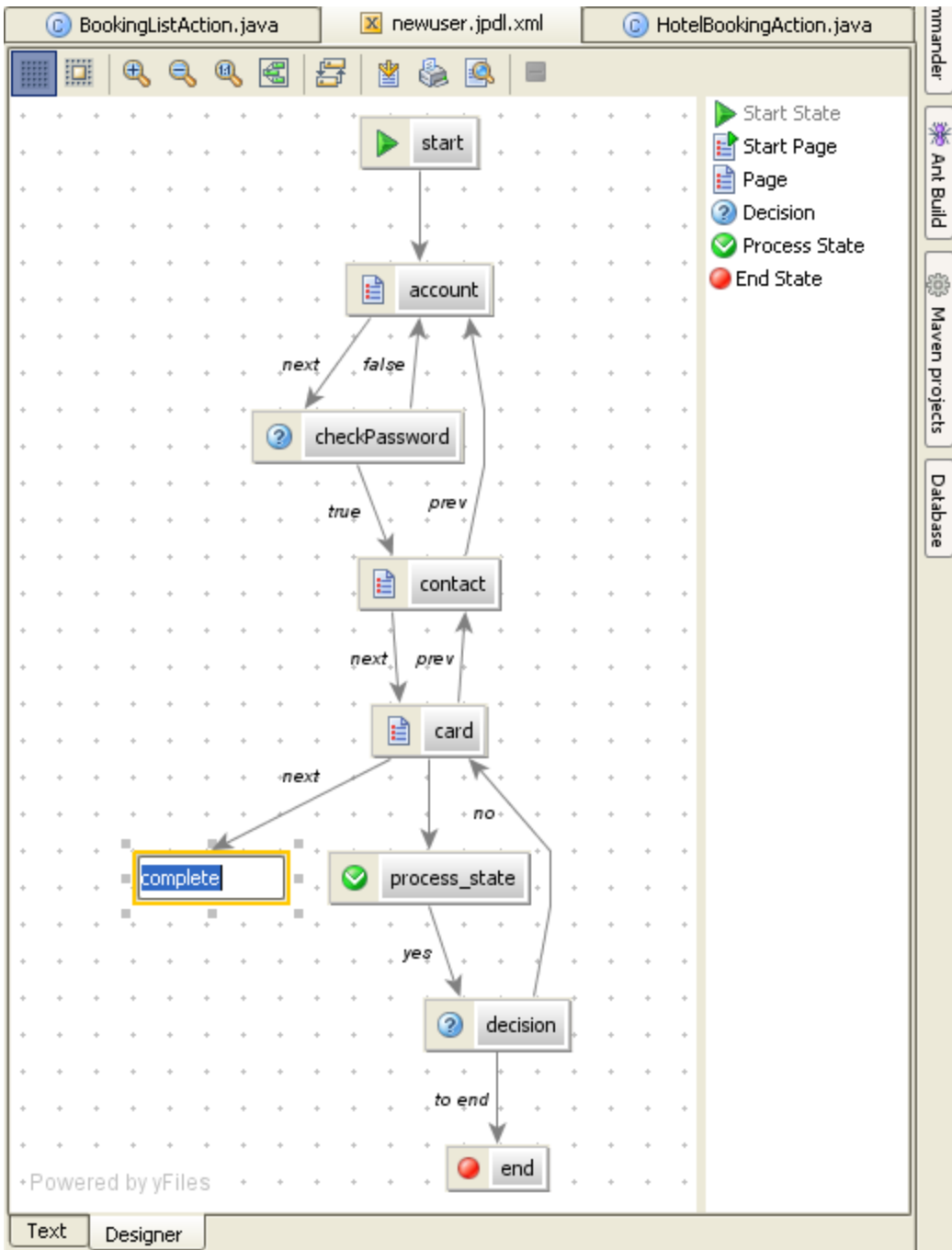
public void cancel()
{
    log.info("Cancel booking: #{bookingList.booking.id} for #{user.username}");
    Booking cancelled = (Booking) bookingDatabase.get(Booking.class, booking.getId());
    if (cancelled!=null) bookingDatabase.delete( cancelled );
}

```

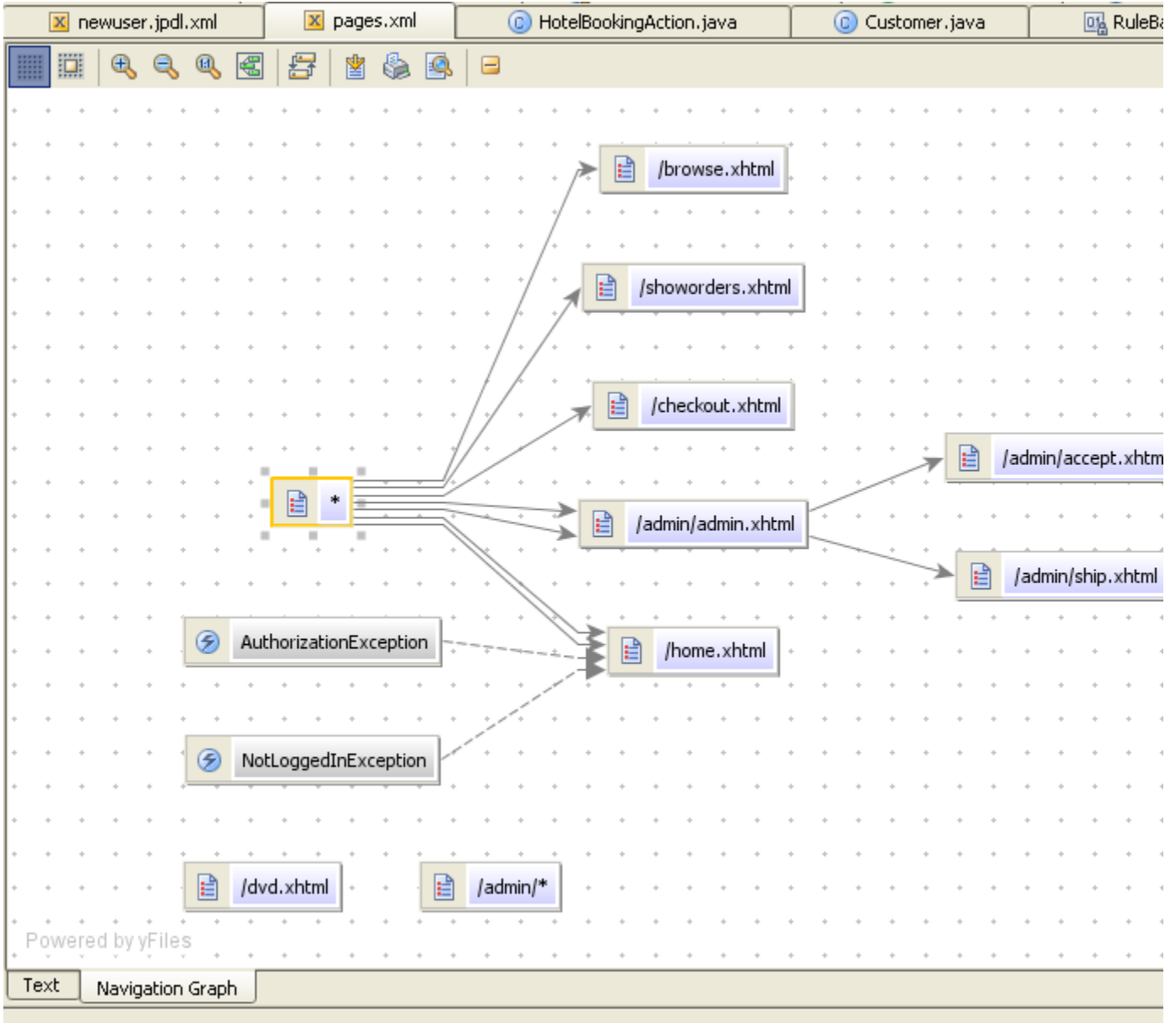
Usages of in Project Files (3 usages found)

- C ? BookingListAction m ? getBookings() (44, 15) @Observer("bookingConfirmed")
- C ? HotelBookingAction m ? confirm() (86, 44) events.raiseTransactionSuccessEvent("bookingConfirmed");
- C ? HotelBookingAction m ? confirm2() (89, 17) @RaiseEvent("bookingConfirmed")

5. Pageflow Designer: inplace editing, DnD, Alt-F7, Shift-F6, F4 in graph



## 6. Pages Navigation Graph (DnD of web pages from ProjectStructure)



7. etc.

## FreeMarker Support

Parsing of .ftl files  
Reference completion  
Rename support  
Implicit variables support:

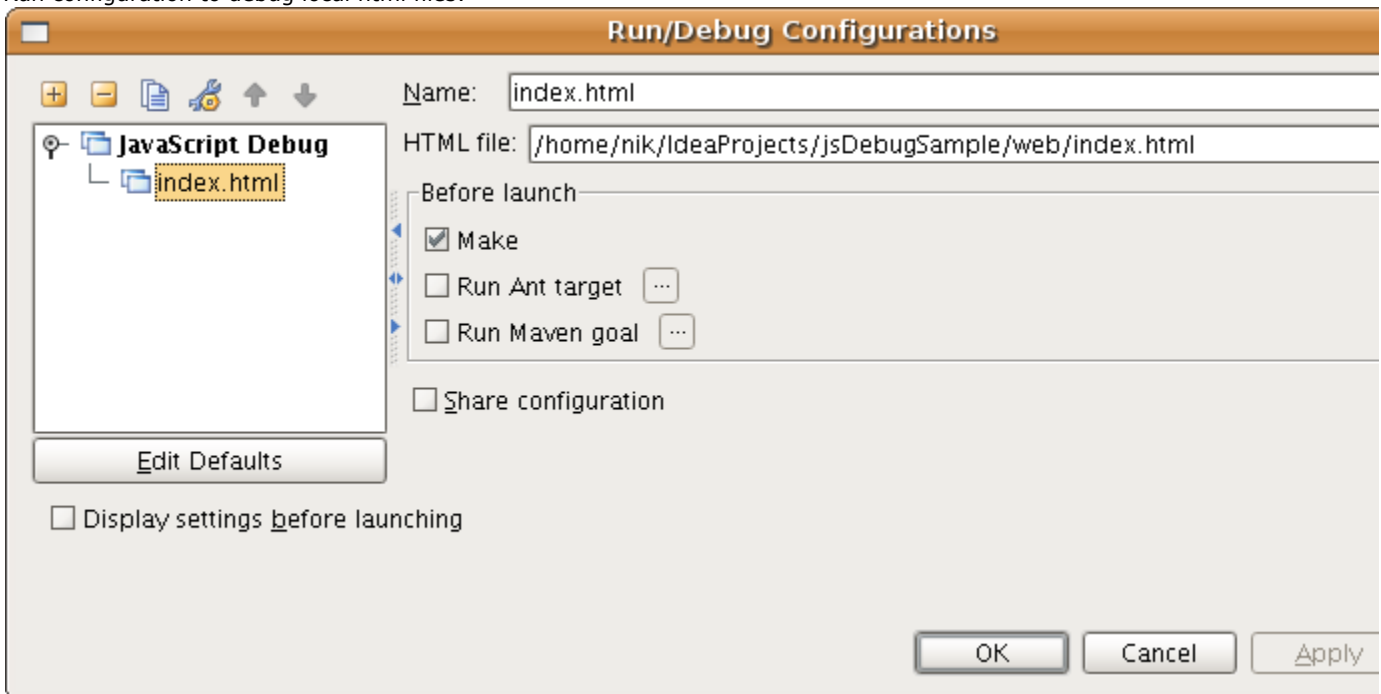
The screenshot shows an IDE editor with two tabs: 'a.ftl' and 'Foo.java'. The 'a.ftl' tab is active, showing the following code:

```
ftl:root
<#ftl>
<!-- @ftlvariable name="foo" type="foo.Foo" -->
<html>
  ${bar.gob}
<head>
</head>
</html>
```

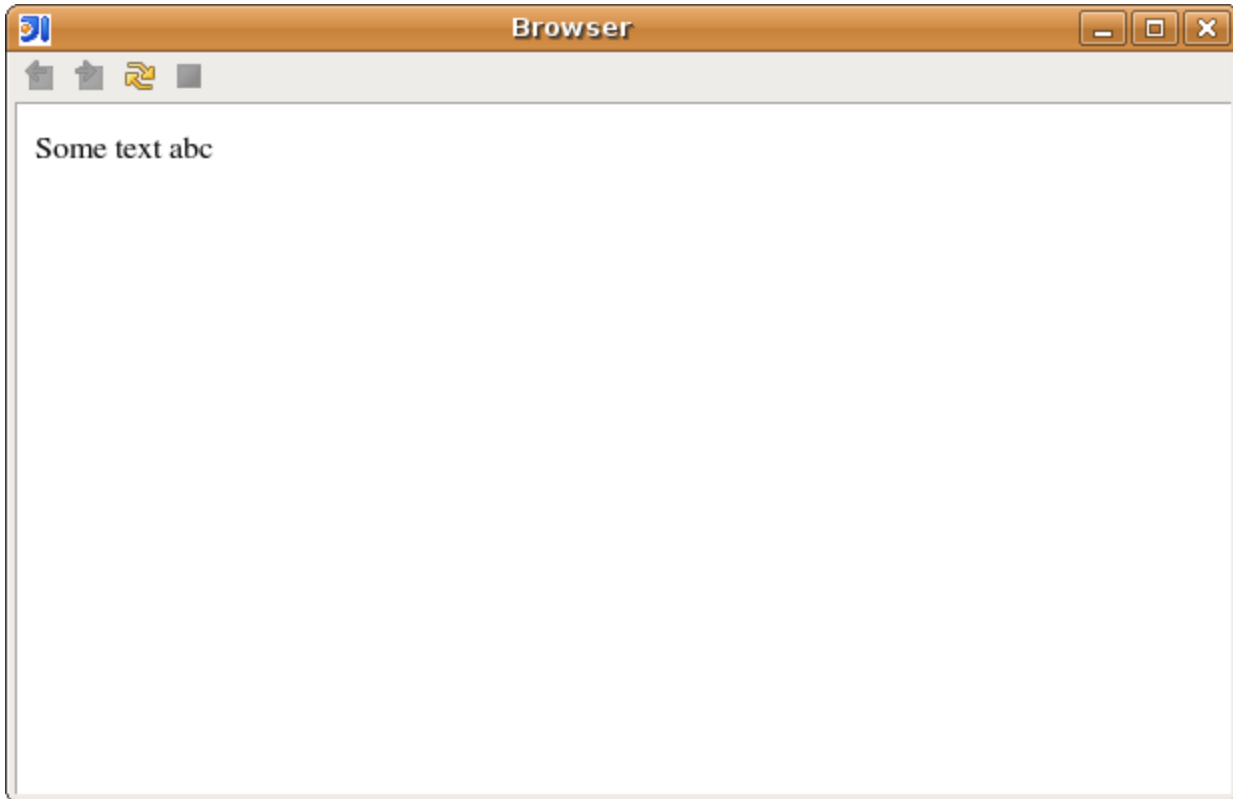
A tooltip is visible over the expression `bar.gob` in the `head` section, containing the text: "Define implicit variable in comment".

## JavaScript Debugging

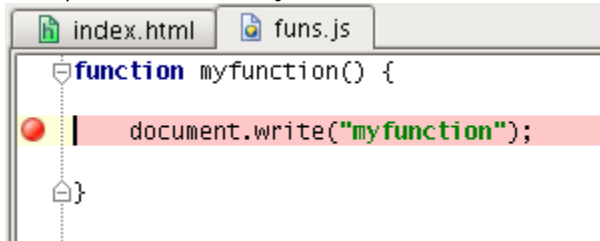
Run configuration to debug local html files:



Browser opens in separate frame:

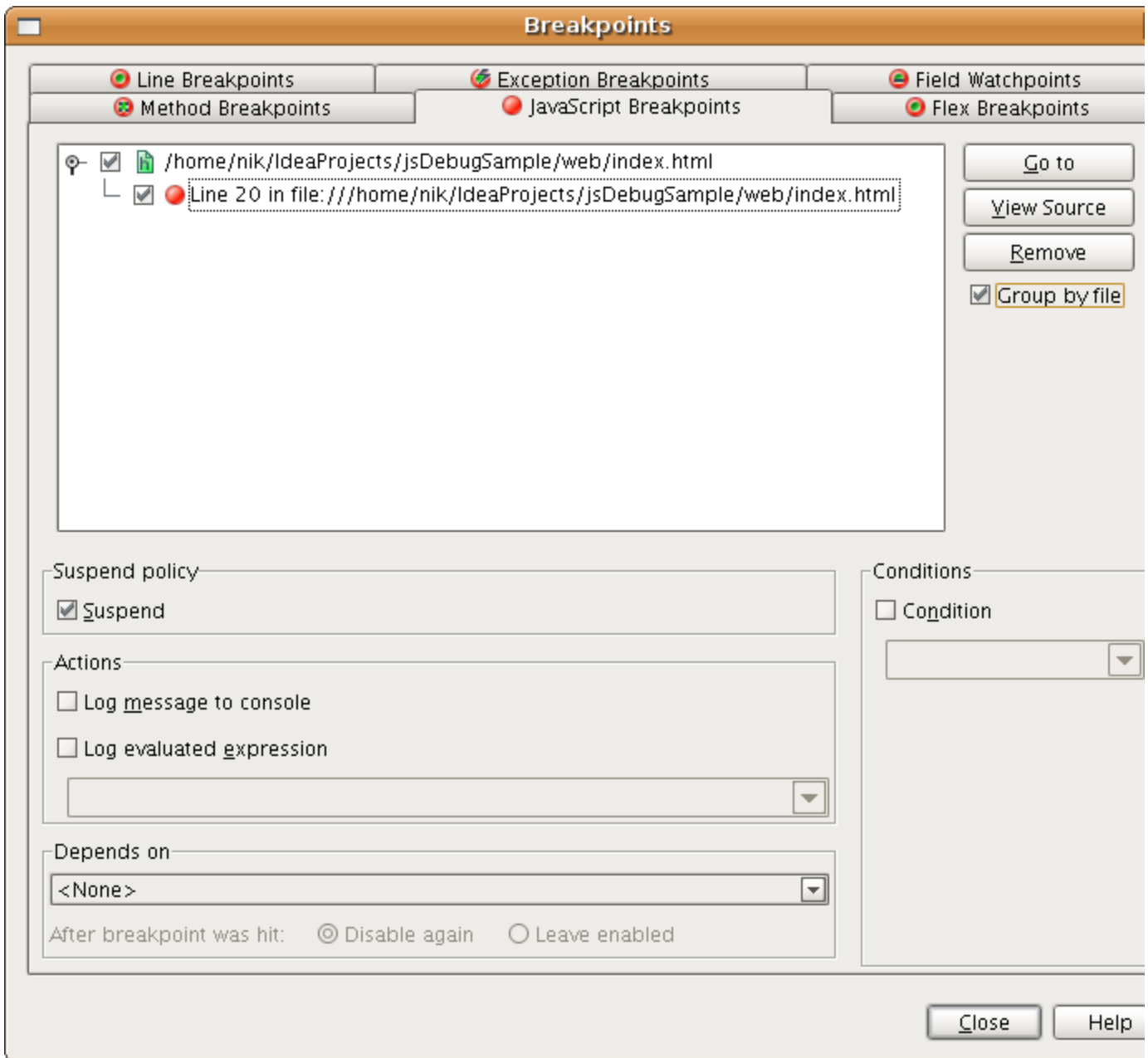


Breakpoints in html- and js-files:

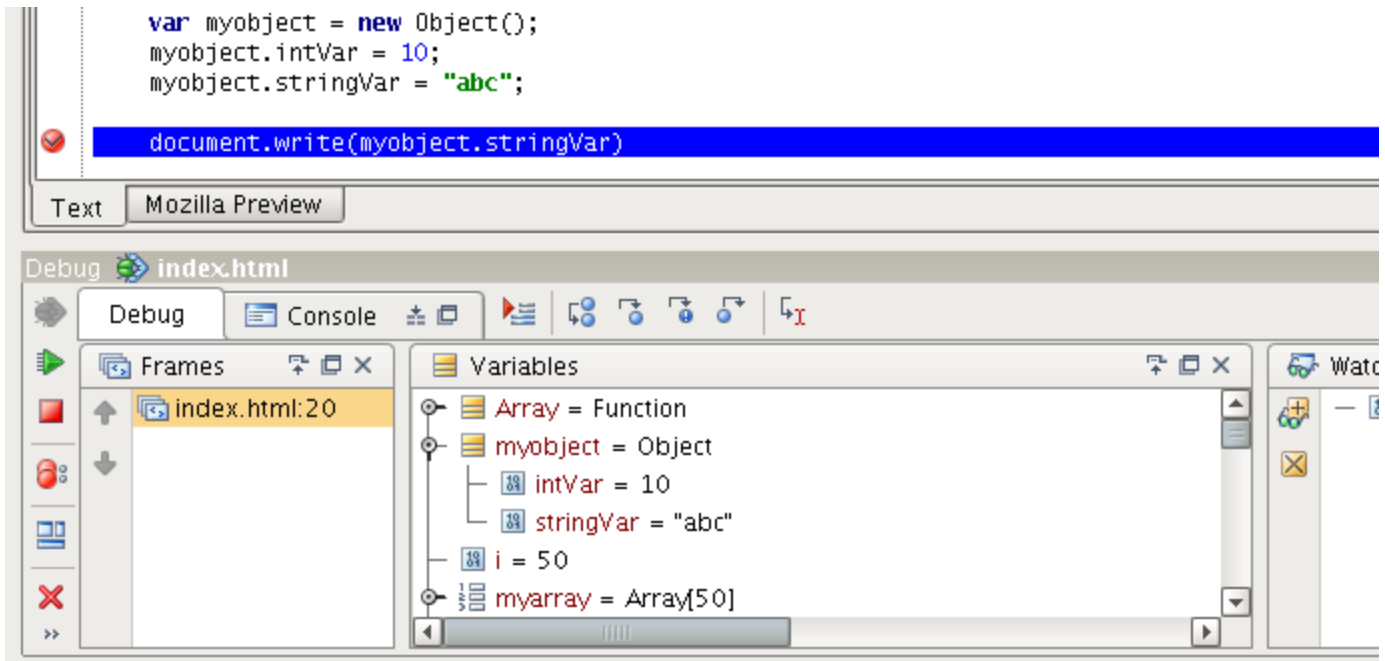


Breakpoints dialog allows to change properties of breakpoint:

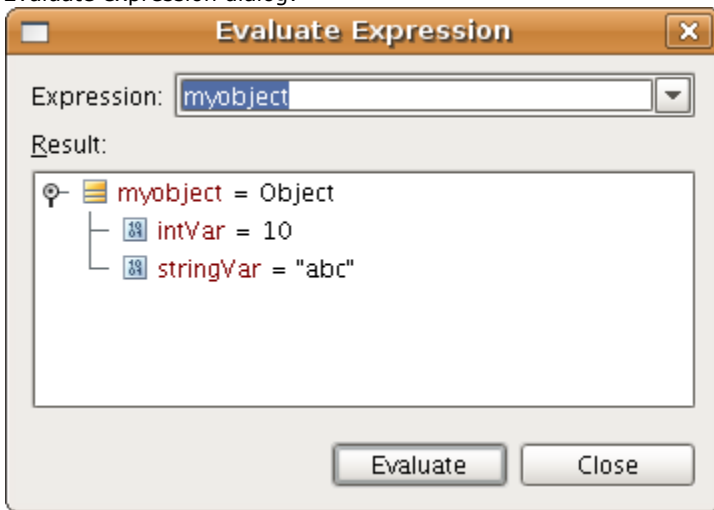




Debug toolwindow (frames, variables, watches):



Evaluate expression dialog:



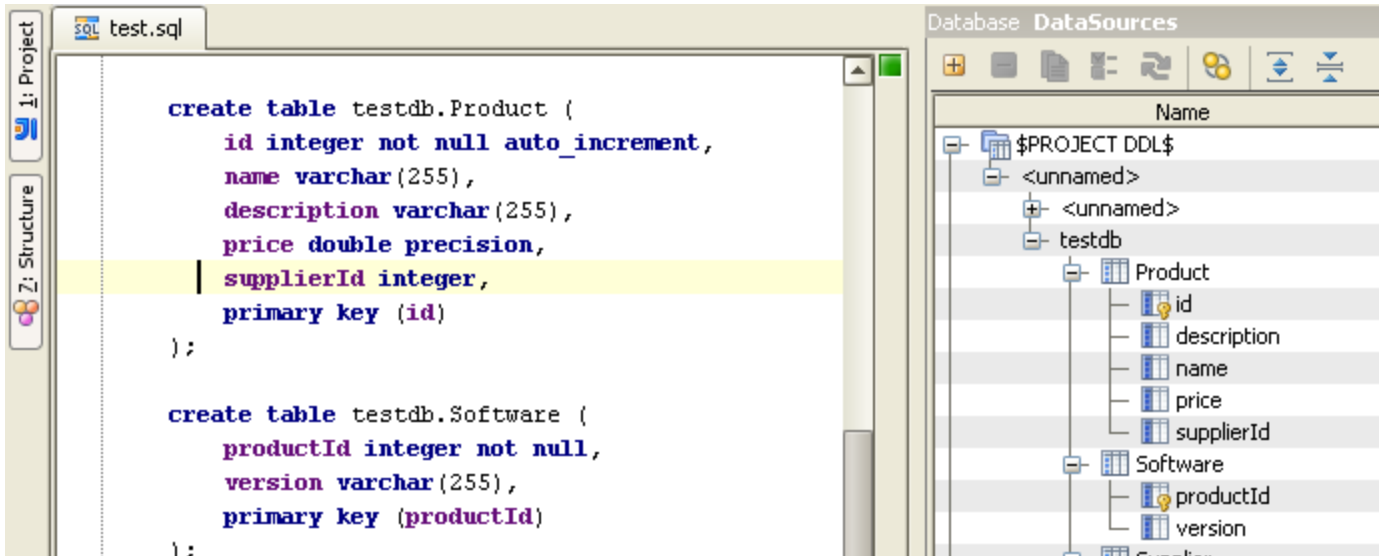
Show value in tooltip on mouse over:

```
var myobject = new Object();
myobject.intVar = 10;
myobject.intVar += 2;
myobject.st myobject.intVar = 12
```

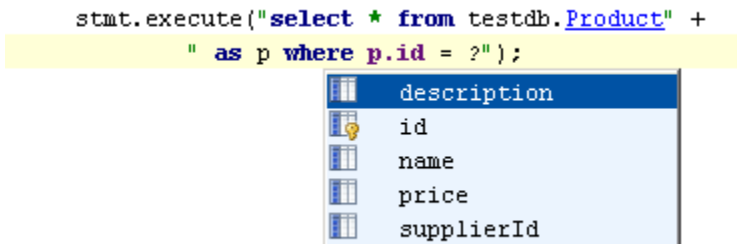
## SQL Support

Per-file SQL Dialect Settings (See Per-file Encoding Support screenshot below).  
SQL92 DDL and query and MySQL DDL dialects support.

DDL DataSource



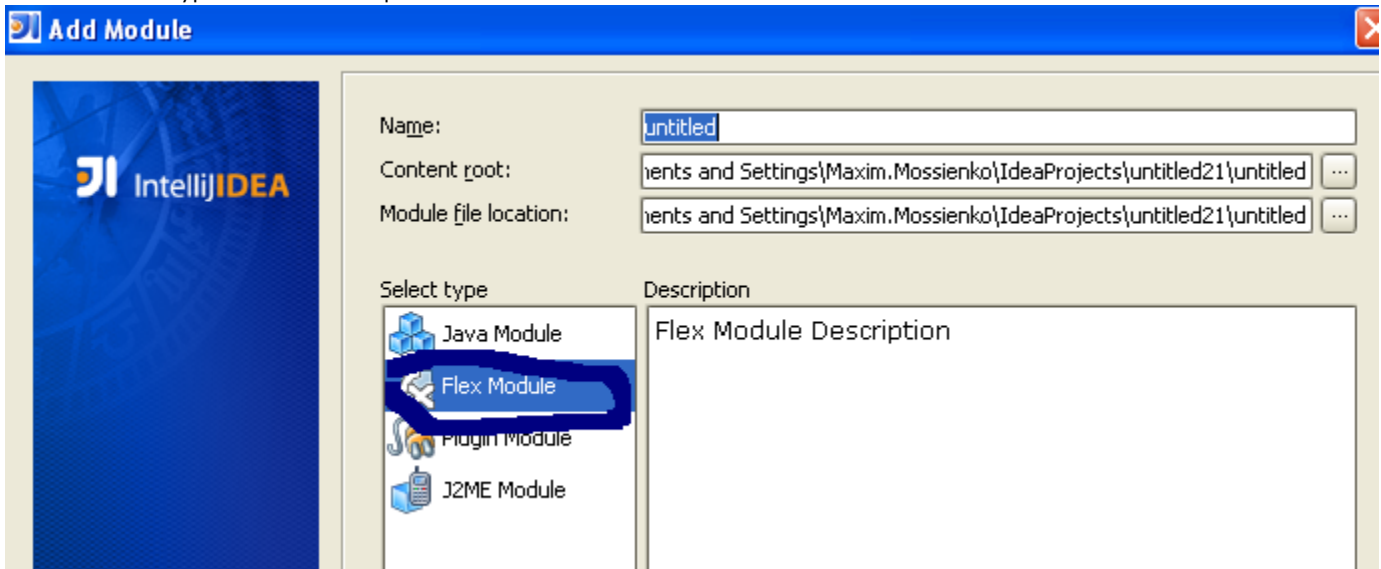
JDBC API & iBatis XML SQL language injection



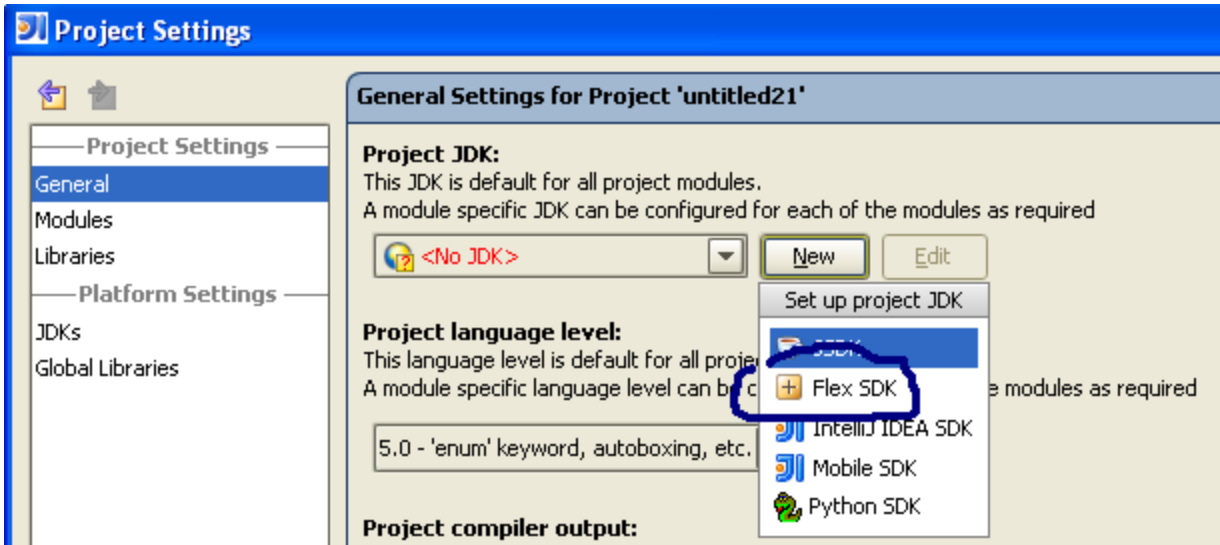
Reference navigation and highlighting.

## Flex Support

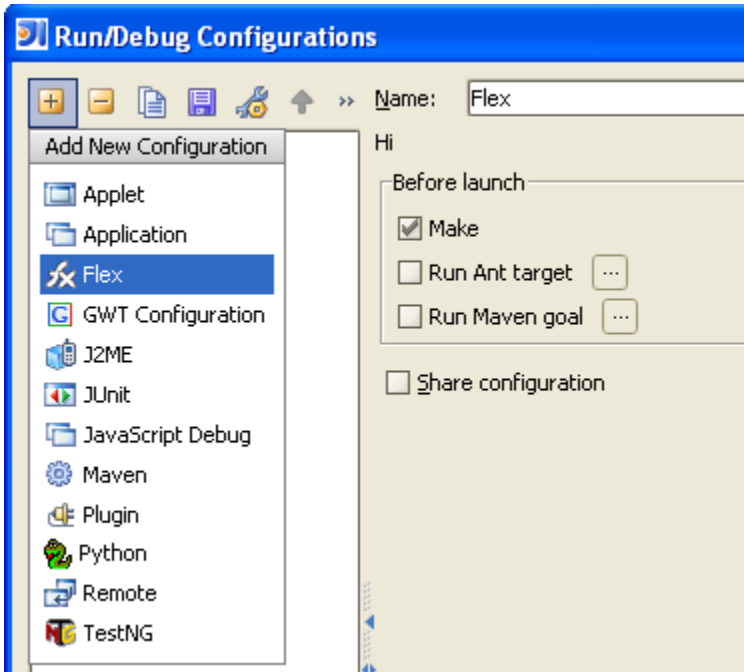
1. New module type for Flex development:



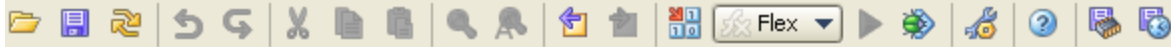
2. Flex SDK is added for Flex modules:



3. Flex run configuration



4. Flex debugging:



```
CCC.as B2.xml SystemManager.as FlexEvent.as  
Container.as Application.as A.xml ComponentDescriptor.as  
[Event(name="select", type="flash.events.Event")]  
[Event(name="unselect", type="flash.events.Event")]  
</mx:Metadata>  
<mx:Script><![CDATA[  
import mx.events.EffectEvent;  
var a:EffectEvent  
    ]]></mx:Script>  
<mx:Script><![CDATA[  
import mx.controls.Alert;  
  
function aaa(a) {  
    Alert.show("Hi", "Title")  
    a111.zzz3 = 1;  
    trace("Hi")  
    Alert.show("Hi", "Title2")  
}  
var xxx2;  
var s = <zzz> {xxx2} </zzz>  
]]></mx:Script>  
  
<x:CCC myzzz= "1" zzz2 = "2" id="a111" zzz3="true" />  
<x:B2 direction="vertical" me="aaa(event)" id="xxx" />  
<x:CCC />  
<mx:HBox verticalAlign="bottom" backgroundColor="blue" enabled="true" id="aa111"  
<mx:Button id="alertButton" click="mx.controls.Alert.show('Example')" />  
<mx:Button label="Show Alert2" click="aaa(111);" id="a1" />  
</mx:Application>
```

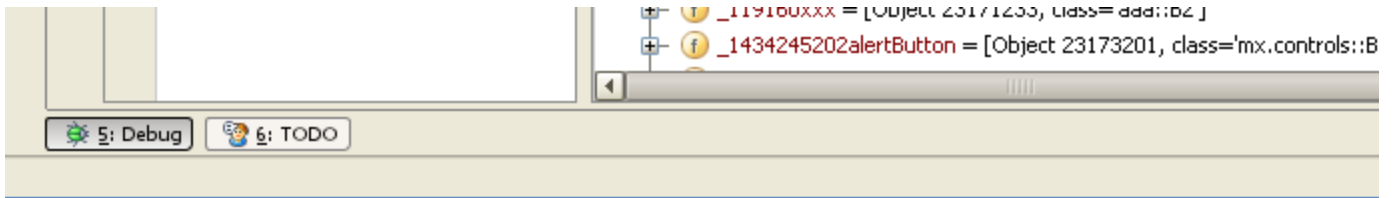
Debug Console

Frames

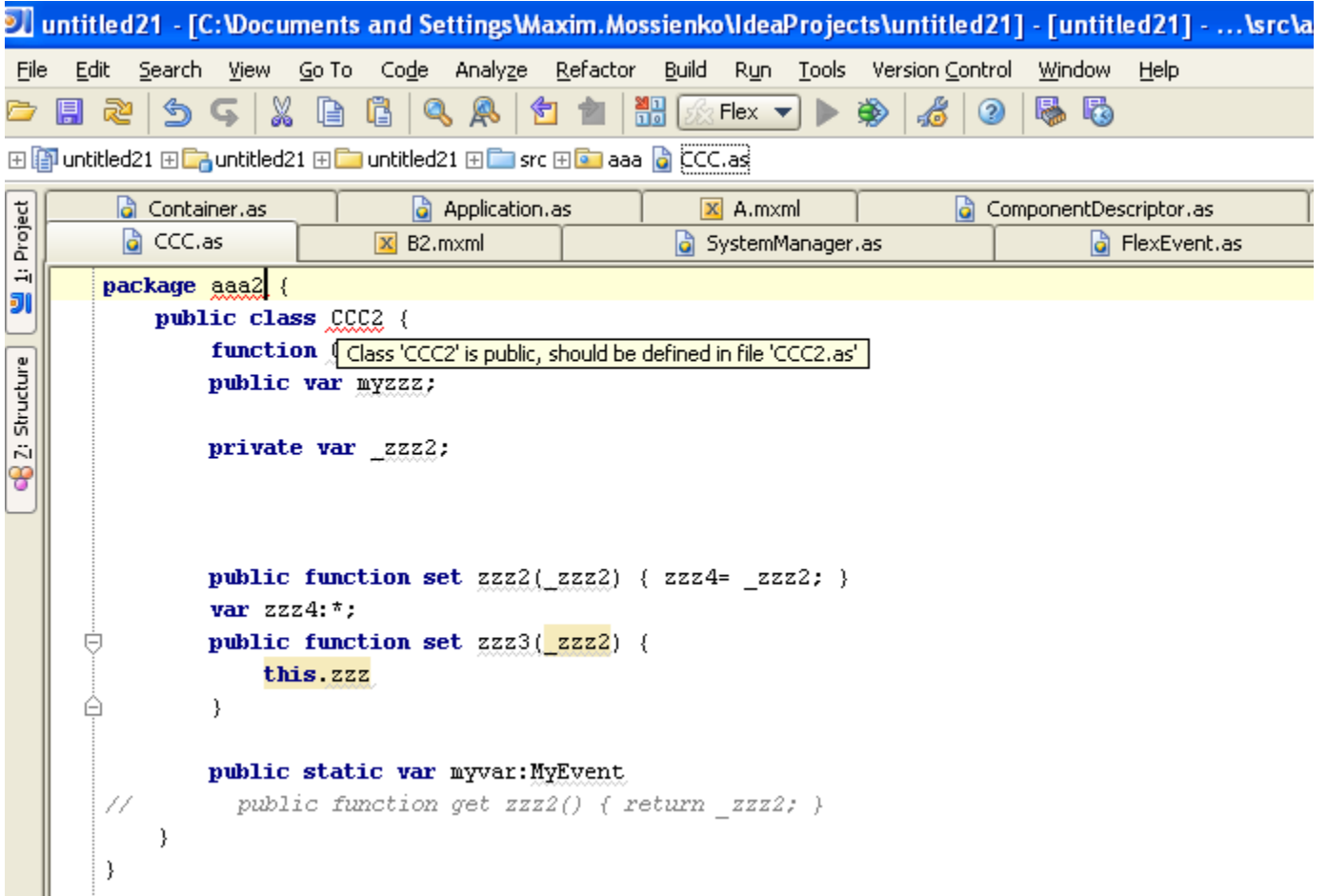
- aaa:A in A.xml:14
- \_\_a1\_click:A in A.xml:27

Variables

- a = 111 (0x6f)
- this = [Object 22958241, class='A']
  - \$height = 375 (0x177)
  - \$numChildren = 7 (0x7)
  - \$parent = [Object 20480161, class='\_A\_mx\_managers\_SystemMana
  - \$visible = true
  - \$width = 500 (0x1f4)
  - \$x = 0 (0x0)
  - \$y = 0 (0x0)

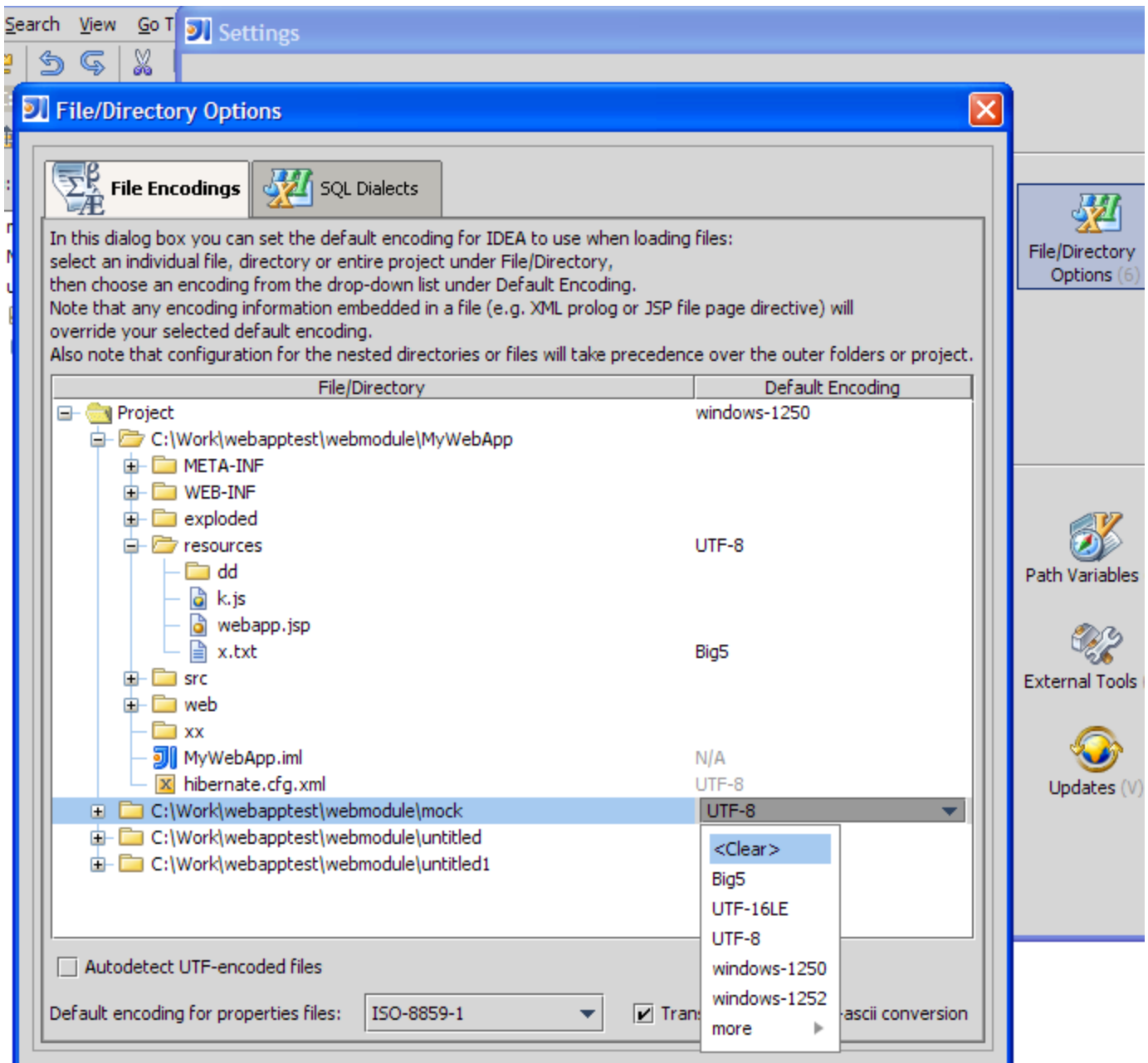


5. Package name and class name is checked to be the same as directory or file name respectively:



## Per-file Encoding Support

You can configure file encoding individually for the file, all files in the directory, or all files in the project. Settings are stored in the per-project configuration file which can be shared among the team and version controlled.



## "Unwrap/Remove" action (delete enclosing statement)

You can use the action to quickly extract or remove statements from an enclosing statement (such as if, while, for, etc.). The supported statements are: for, foreach, if..elseif...else, try...catch...finally, while...do, do...while, and lone braces. The statements to be extracted are highlighted with blue, to be removed - with grey.

Unwrap Example:

The code before unwrapping the first else branch:

```
String foo = "foo";

if (foo == null) {
    System.out.println("foo is null");
} else if (foo.equals("foo")) {
    System.out.println("foo is 'foo'");
} else {
    System.out.pr
}
```

Choose the statement to unwrap/remove

- Unwrap 'else...'
- Remove 'else...'

The code after unwrapping:

```
String foo = "foo";

System.out.println("foo is 'foo'");
```

Remove Example:

The code before removing the first else branch:

```
String foo = "foo";

if (foo == null) {
    System.out.println("foo is null");
} else if (foo.equals("foo")) {
    System.out.println("foo is 'foo'");
} else {
    System.out.println("dunno w
}
```

Choose the statement to unwrap/remove

- Unwrap 'else...'
- Remove 'else...'

The code after removing:

```
String foo = "foo";

if (foo == null) {
    System.out.println("foo is null");
} else {
    System.out.println("dunno what foo is");
}
```

## Struts 2

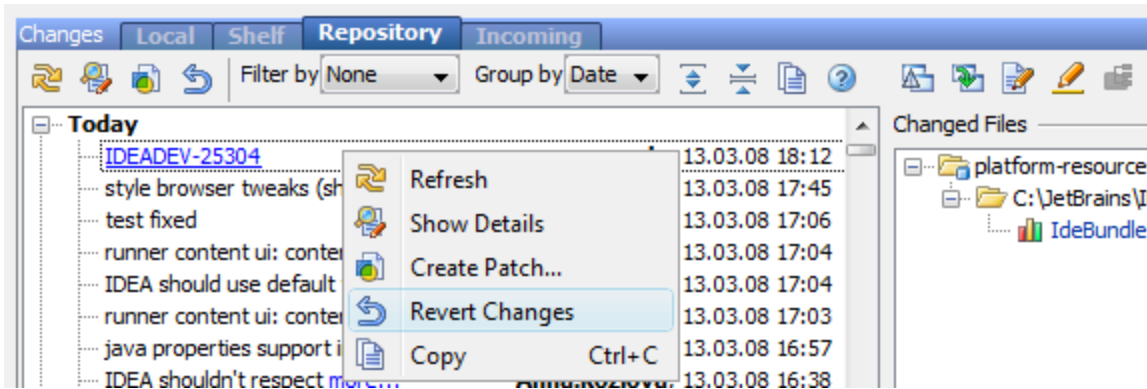
The Struts 2 plugin by Yann Cebron is now bundled. See [here](#) for more information on the plugin.

## Other Improvements

### "Revert Changes" action

Action in context menu of a committed changelist applies the reverse patch of that changelist to the current source code. Can be used to revert changes committed by any user, even if it's not the last checkin.



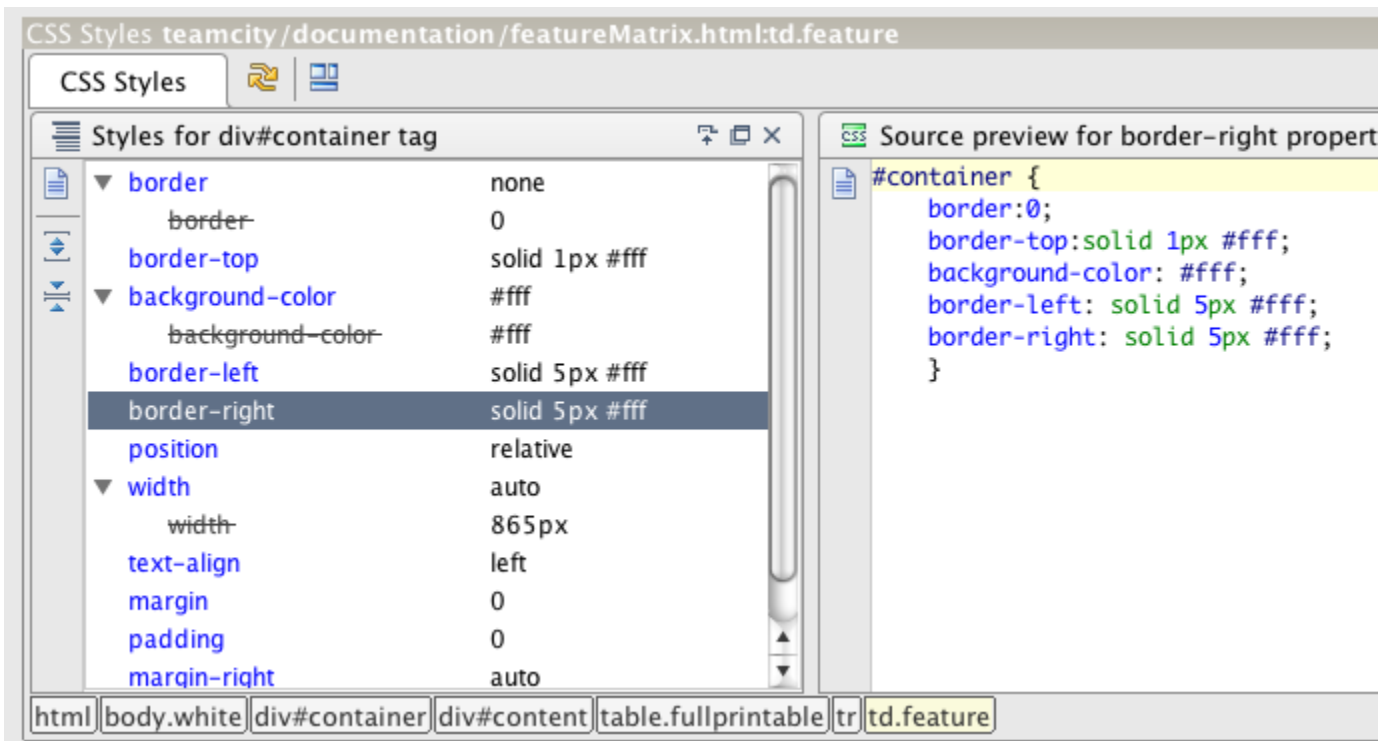


## "Use existing implementation" quickfix

For an abstract method with some missing implementation, allows to copy one of the existing implementations to all the places where an implementation is missing. Invoked on the abstract method.

## Highlighting of implicit parameters for anonymous classes

## New Show Applied Styles window



## Tag name completion in XML & JSP

Start a new tag and press Ctrl-Alt-Space:

```
<in  
inputText (http://java.sun.com/jsf/html)  
include (http://java.sun.com/JSP/Page)  
input (http://www.w3.org/1999/html)  
inputHidden (http://java.sun.com/jsf/html)  
inputSecret (http://java.sun.com/jsf/html)  
inputTextarea (http://java.sun.com/jsf/html)  
ins (http://www.w3.org/1999/html)
```

Choose an item:

```
<%@ taglib prefix="h" uri="http://java.sun.com/jsf/html" %>  
<h:inputText|
```

## Namespace auto-import in XML & JSP

Type a tag with not bound namespace prefix:

```
? http://java.sun.com/jsp/jstl/core? (multiple choices...) Alt+Enter  
<c:if|
```

Press Alt-Ins and choose a namespace:

```
<c:if  
Taglib To Import  
s http://java.sun.com/jsp/jstl/core  
s http://java.sun.com/jsp/jstl/xml  
s http://java.sun.com/jstl/core  
s http://java.sun.com/jstl/core_rt  
s http://java.sun.com/jstl/xml  
s http://java.sun.com/jstl/xml_rt
```

Namespace declaration is inserted:

```
<%@ taglib prefix="c" uri="http://java.sun.com/jsp/jstl/core" %>  
<c:if
```