

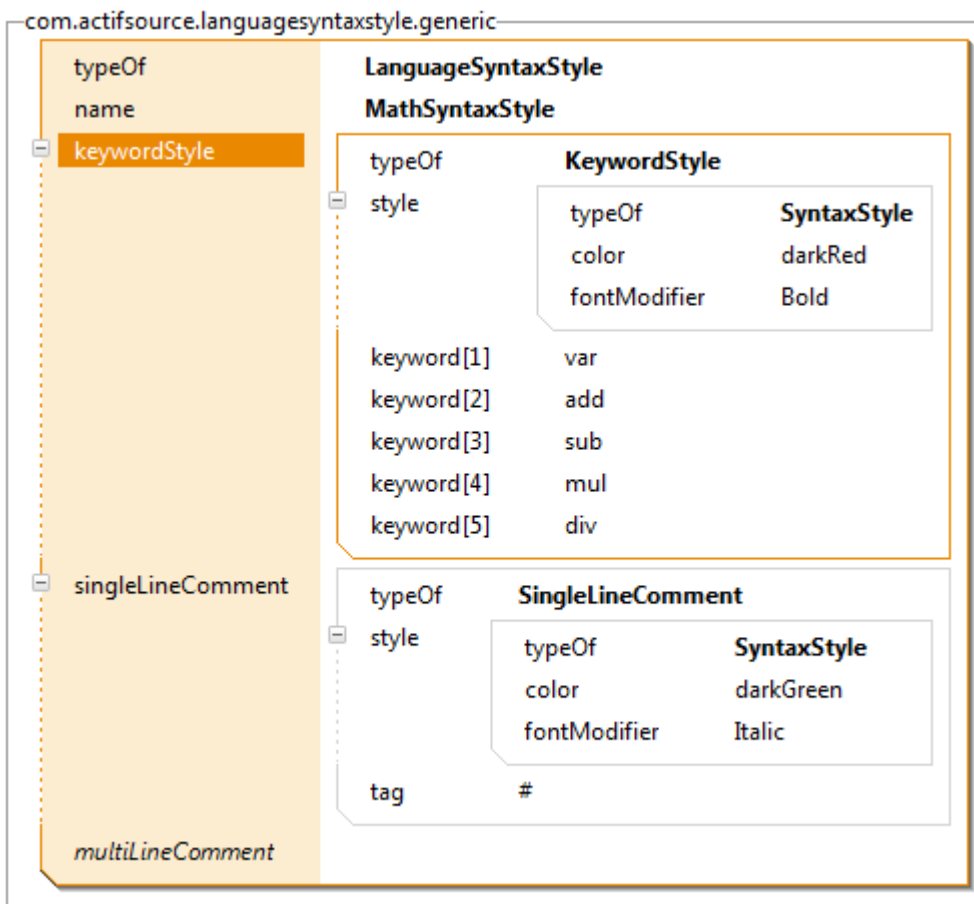


Tutorial

Language Syntax Style

Tutorial	Actifsource Tutorial – Language Syntax Style
Required Time	<ul style="list-style-type: none"> • 10 Minutes
Prerequisites	<ul style="list-style-type: none"> • Actifsource Tutorial – Installing Actifsource • Actifsource Tutorial – Simple Service
Goal	<ul style="list-style-type: none"> • Enabling syntax highlighting for any programming language
Topics covered	<ul style="list-style-type: none"> • Creating instances of the class LanguageSyntaxStyle • Registering your LanguageSyntaxStyle
Notation	<ul style="list-style-type: none"> ☞ To do ① Information • Bold: Terms from actifsource or other technologies and tools • <u>Bold underlined:</u> actifsource Resources • <u>Underlined:</u> User Resources • <u><i>UnderlinedItalics:</i></u> Resource Functions • Monospaced: User input • <i>Italics:</i> Important terms in current situation
Disclaimer	<p>The authors do not accept any liability arising out of the application or use of any information or equipment described herein. The information contained within this document is by its very nature incomplete. Therefore the authors accept no responsibility for the precise accuracy of the documentation contained herein. It should be used rather as a guide and starting point.</p>
Contact	<p>actifsource GmbH Täferstrasse 37 5405 Baden-Dättwil Switzerland www.actifsource.com</p>
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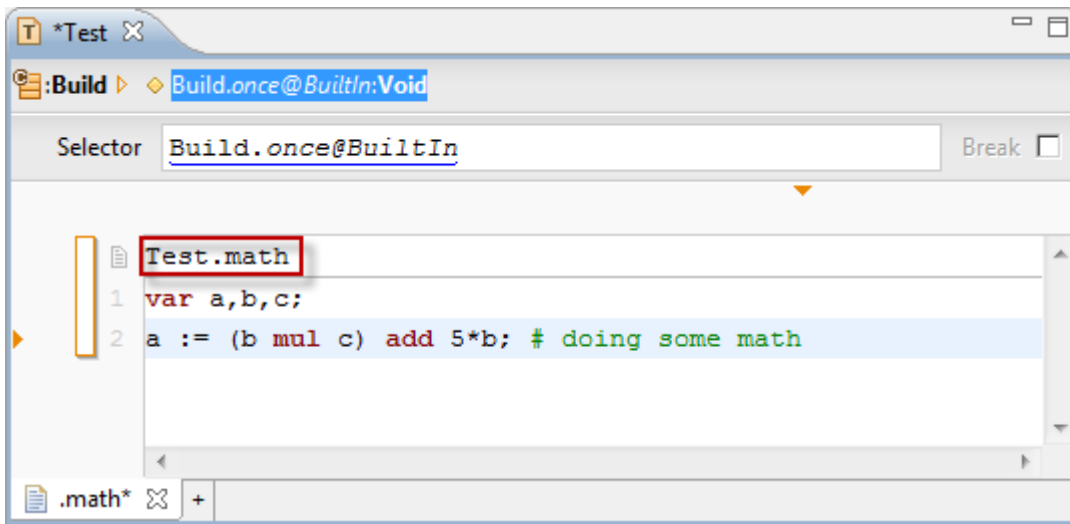
- Specify a new `LanguageSyntaxStyle` for any programming language



- Register your `LanguageSyntaxStyle` instance for a specific file extension

Code Style		
Define custom language code styles for the template editor:		
extension	style	
math	MathSyntaxStyle	

- Use your LanguageSyntaxStyle in the template editor

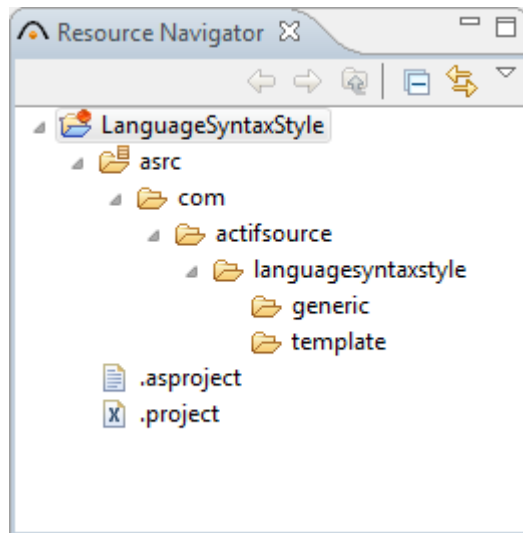


Part I:

Preparation

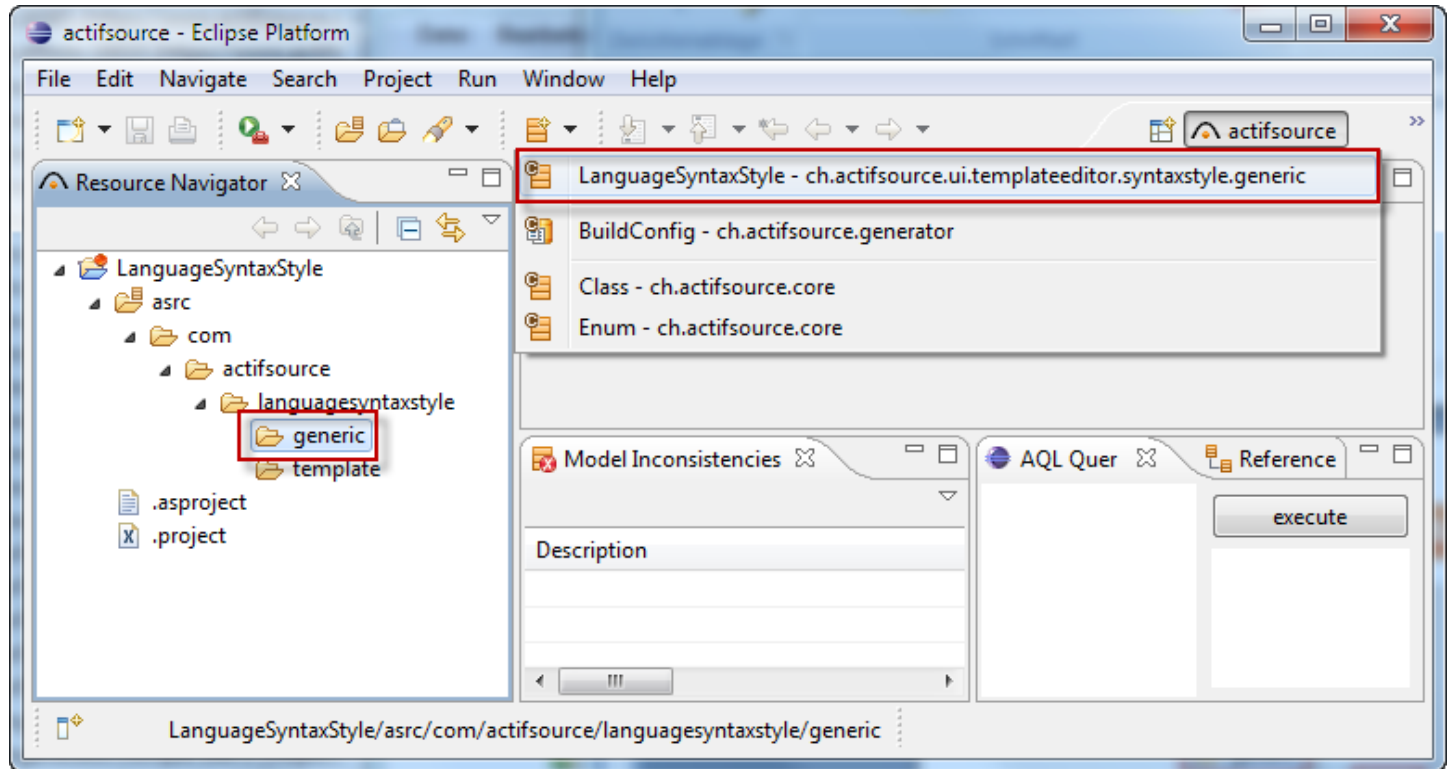
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- Prepare a new **actifsource Project** named `LanguageSyntaxStyle` as seen in the *Actifsource Tutorial – Simple Service*
- Use the following package structure

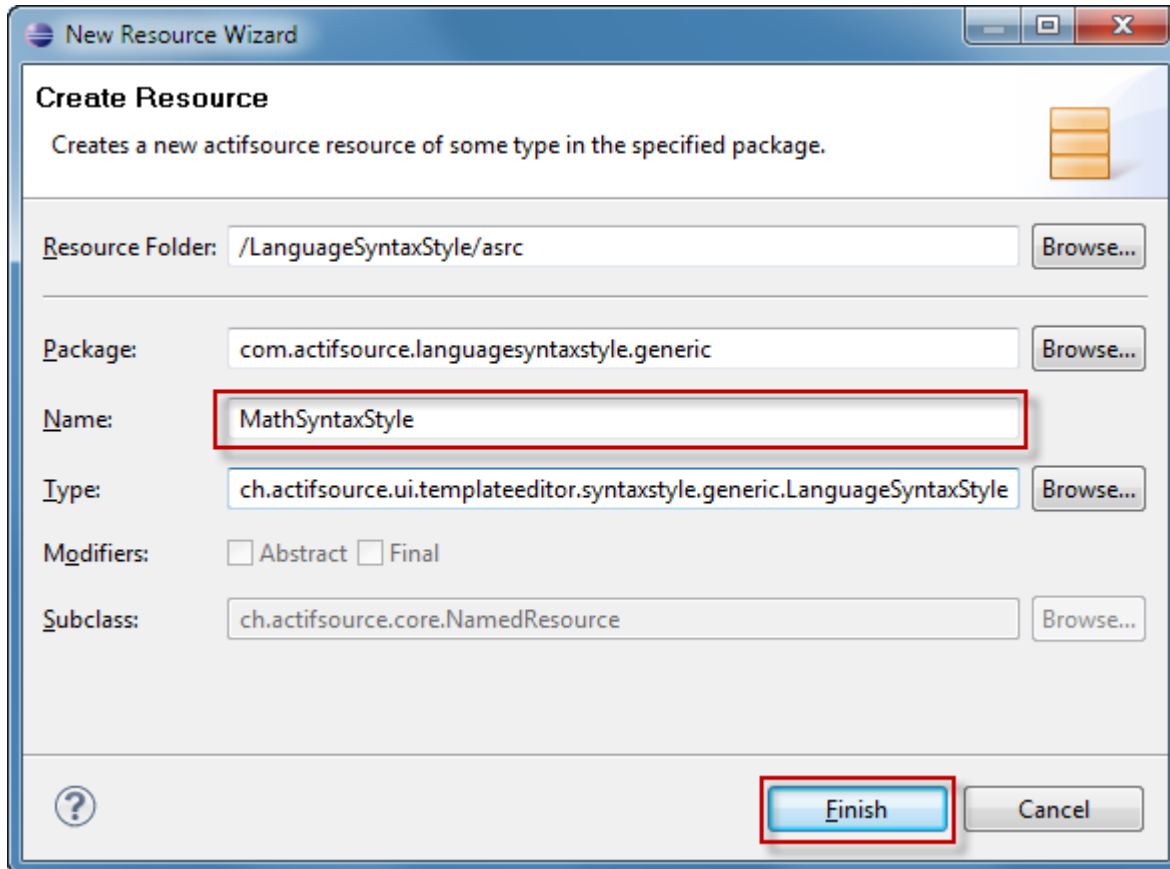


Create a new `LanguageSyntaxStyle` instance

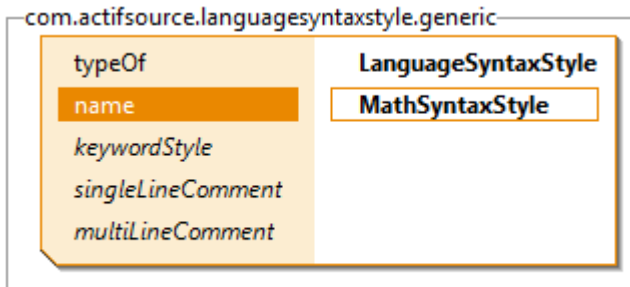
- Instances of `LanguageSyntaxStyle` describe the following language elements
 - Keywords
 - Single Line Comments
 - Multi Line Comment
 - Color and font type
- Lets create an new `LanguageSyntaxStyle` instance for our language



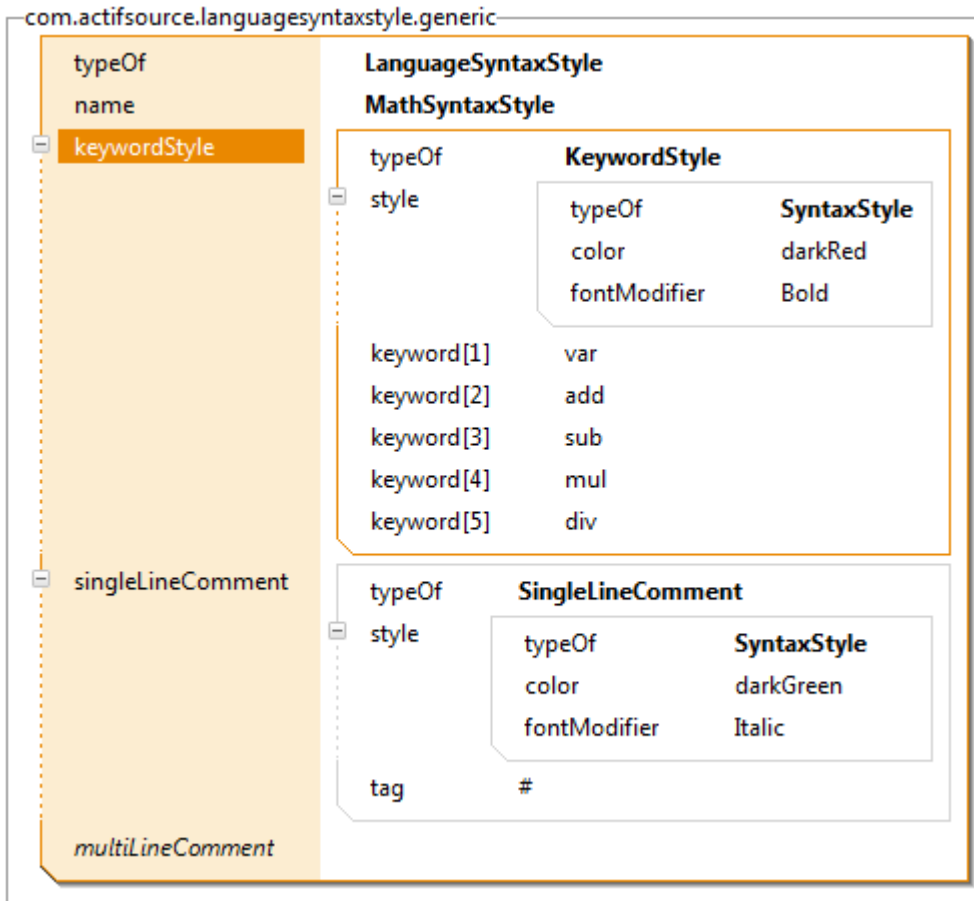
- Select the **package generic**
- Use the **New Resource** Tool to create a **Resource** of type LanguageSyntaxStyle



- ↩ Name the LanguageSyntaxStyle MathSyntaxStyle
- ↩ Click *Finish*



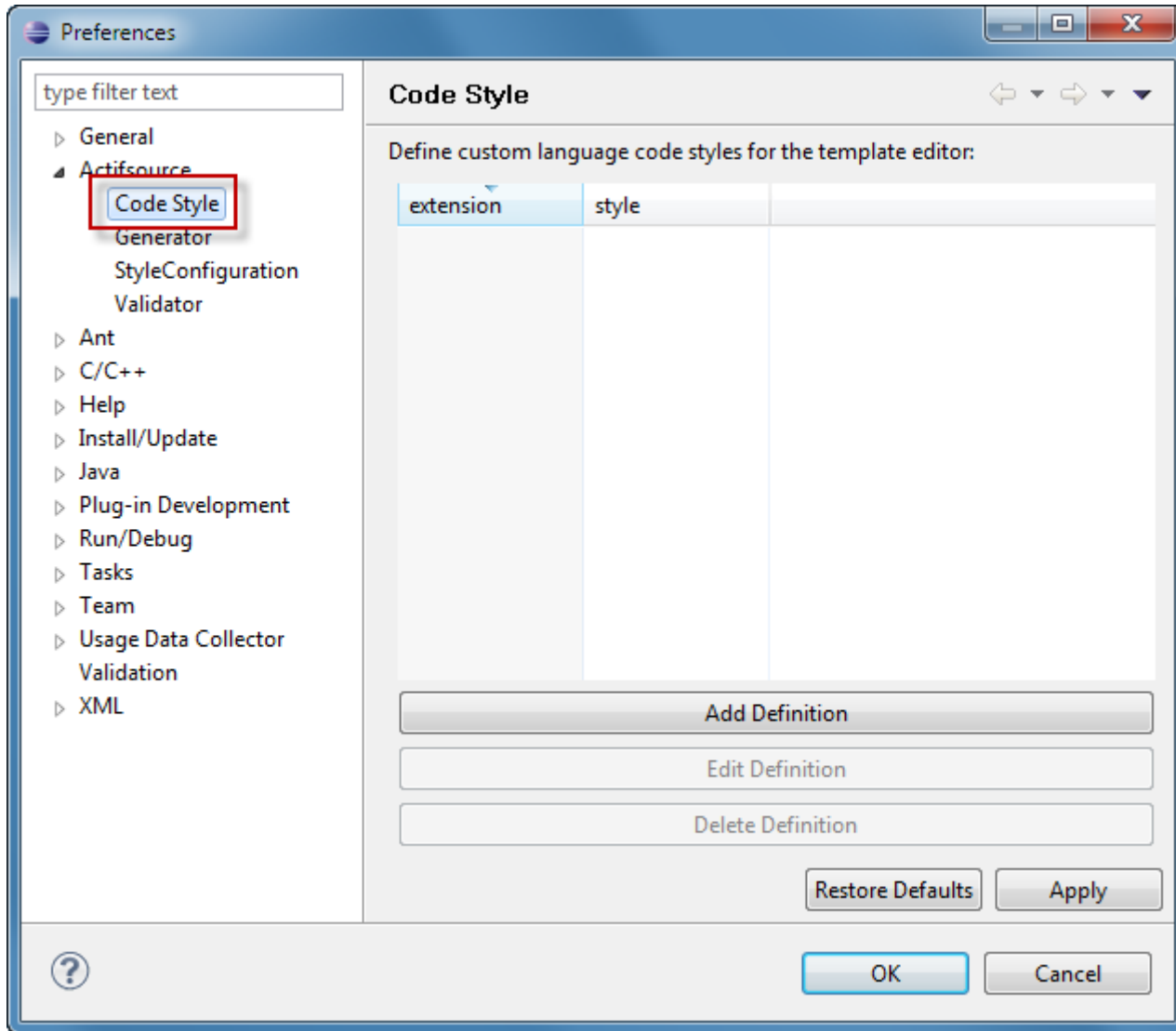
- ① The **Resource** MathSyntaxStyle of type LanguageSyntaxStyle has been created



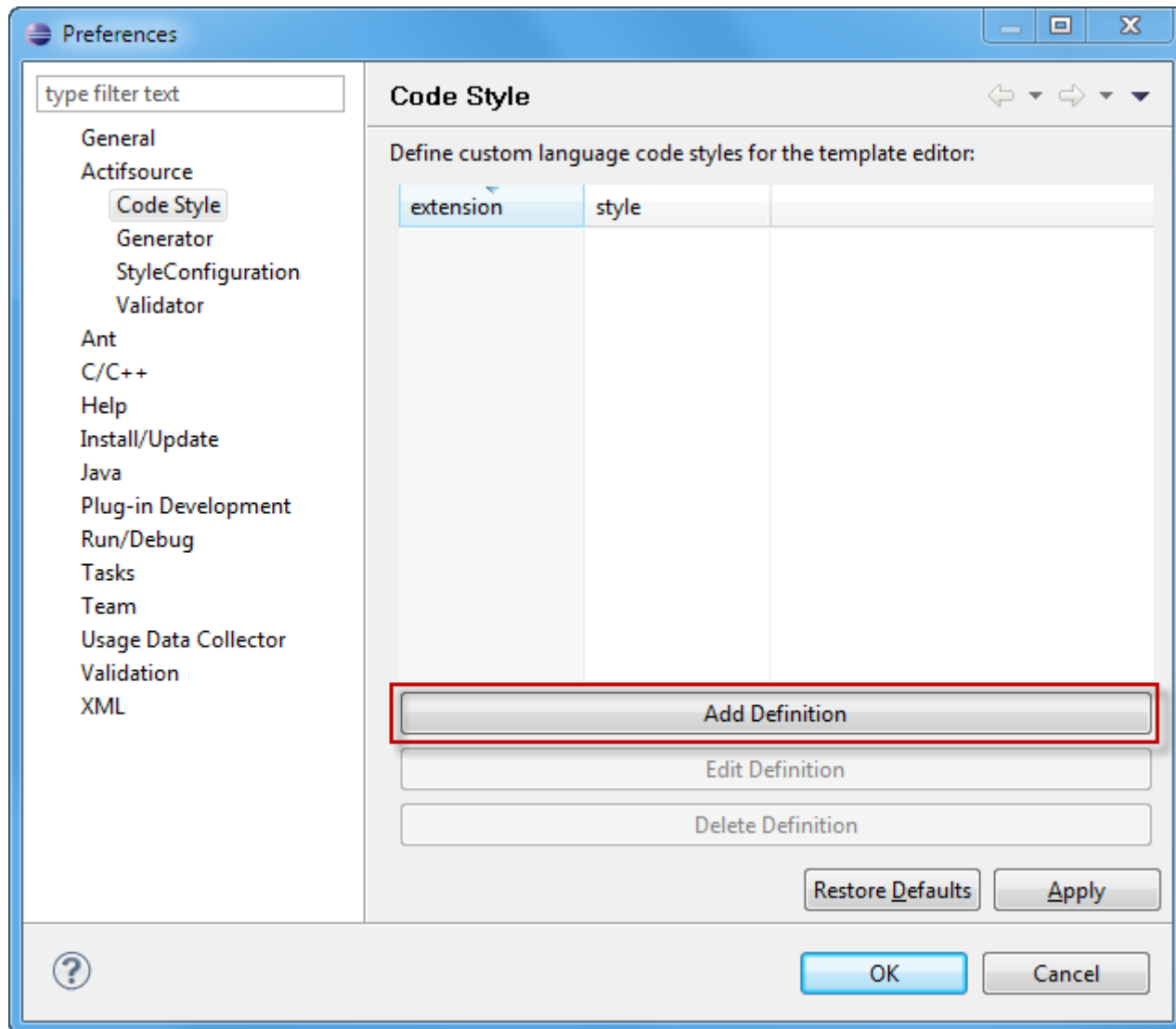
- Define your keyword style: color `darkRed`, fontModifier `Bold`
- Define your keywords: `var`, `add`, `sub`, `mul`, `div`
- Define your single line comment style: color `darkGreen`, fontModifier `Italic`
- Define your single line comment tag: `#`

Registering the LanguageSyntaxStyle instance

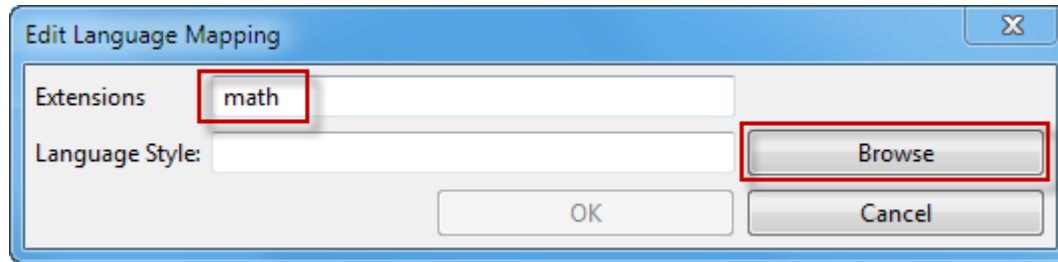
- ① Learn how to register the new LanguageSyntaxStyle instance using the actifsource preferences for a specific file extension



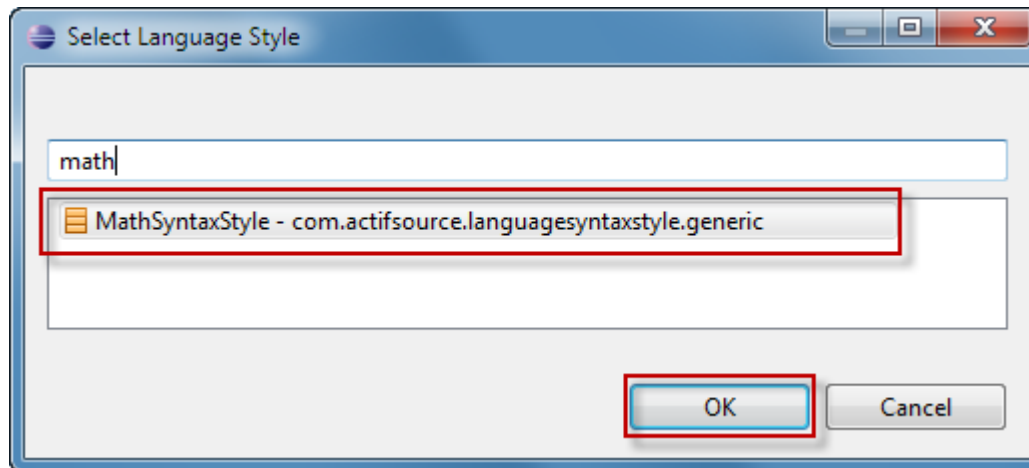
- ☞ Open the *Preferences* in the *eclipse menu bar* via *Window/Preferences*
- ☞ Select *Actifsource/Code Style*



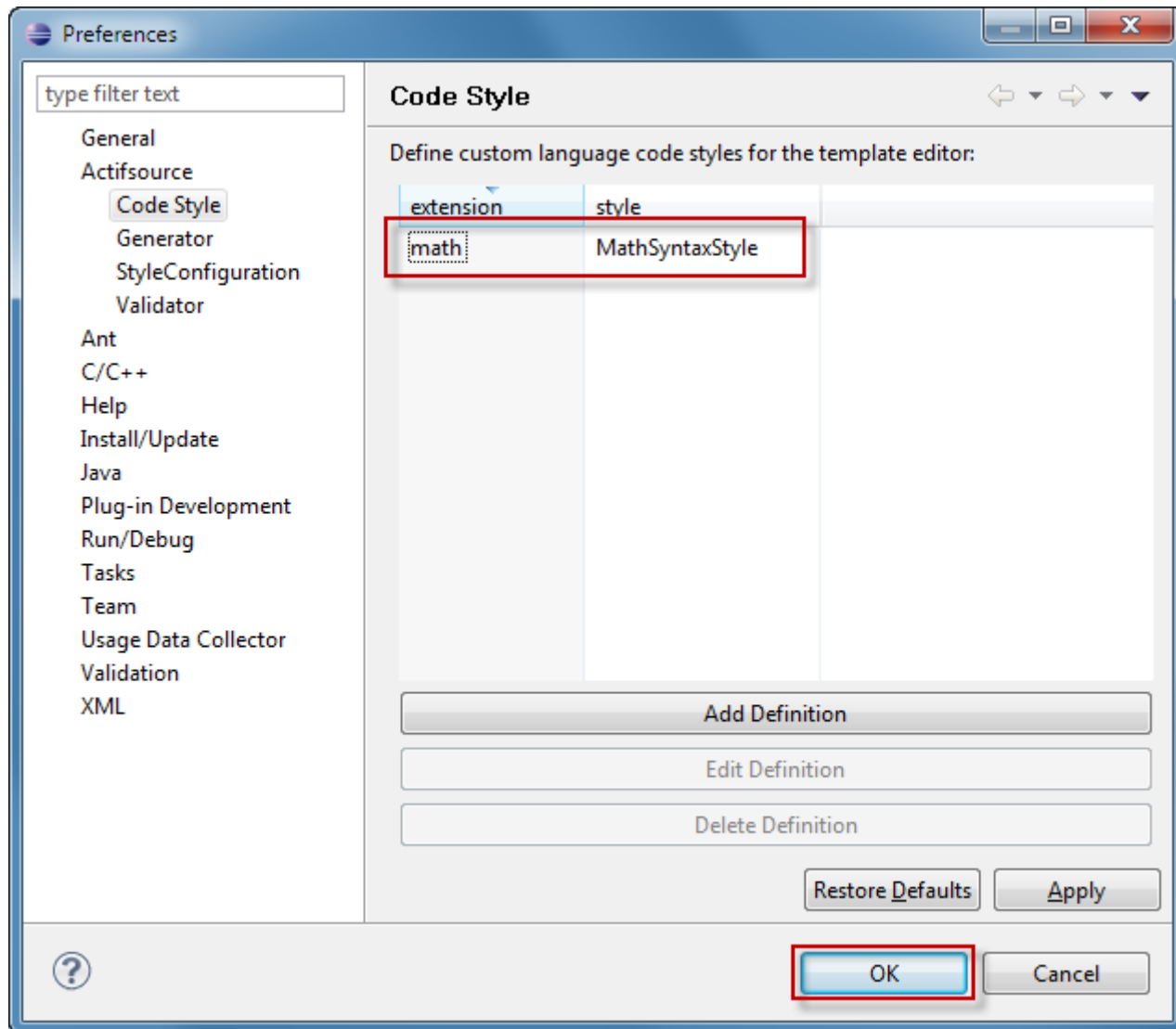
☞ Select *Add Definition*



- ↪ Enter the **File Extension** `math`
- ↪ Click *Browse* to specify your Language Style



- ↪ Select MathSyntaxStyle
- ↪ Click *Ok*

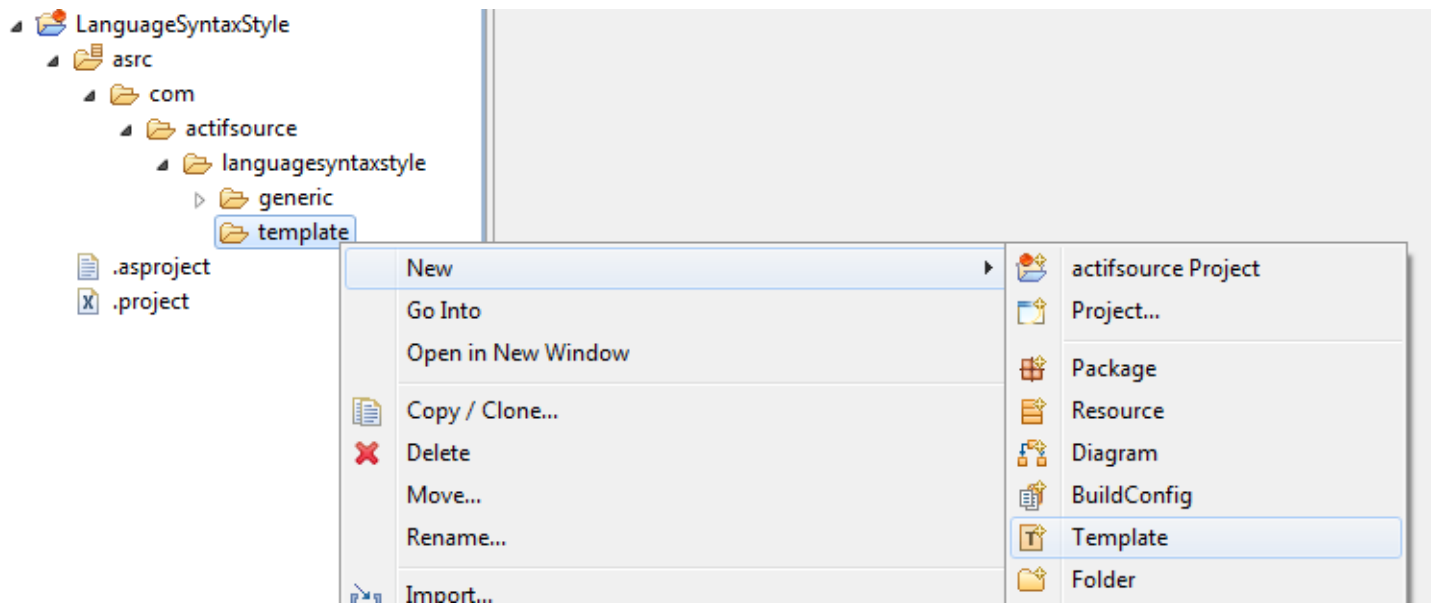


① The new MathSyntaxStyle has been registered with the file extension *math*

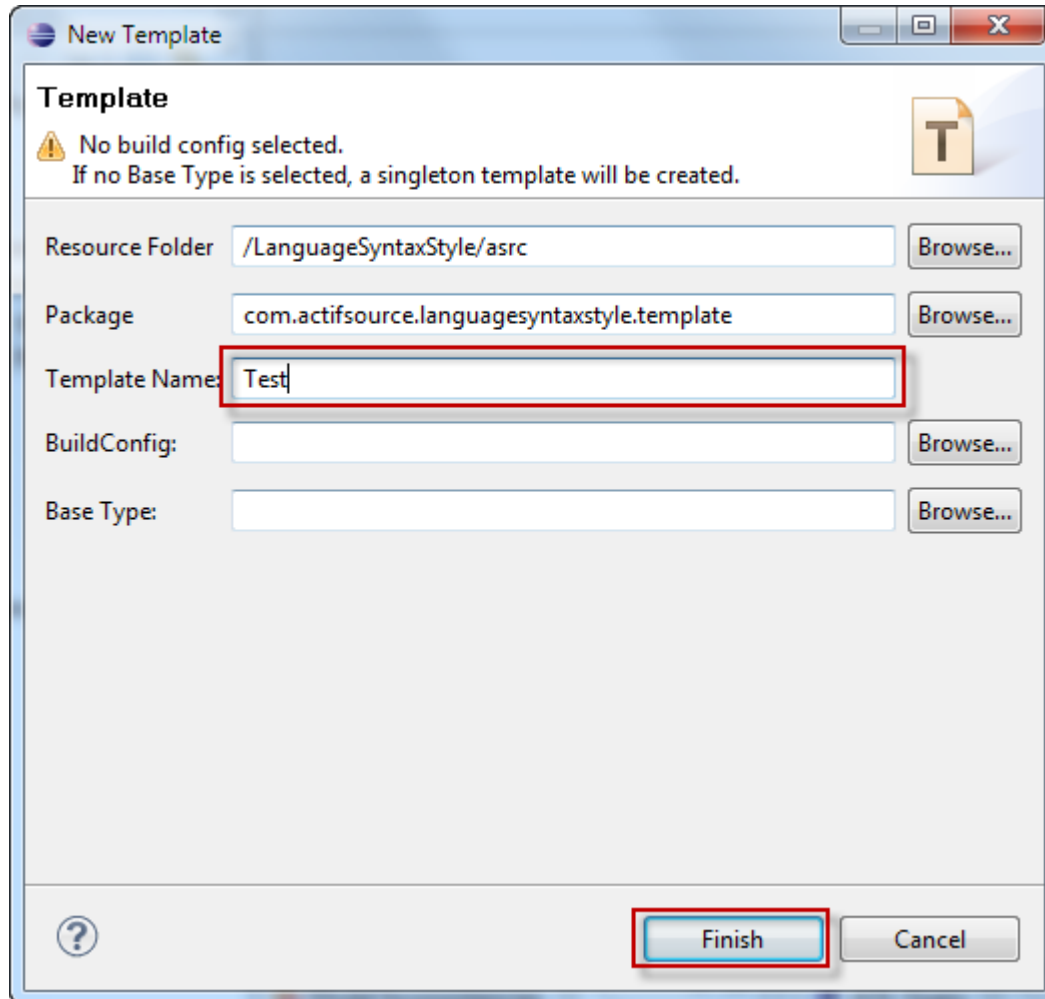
☞ Click *Ok*

Using the LanguageSyntaxStyle

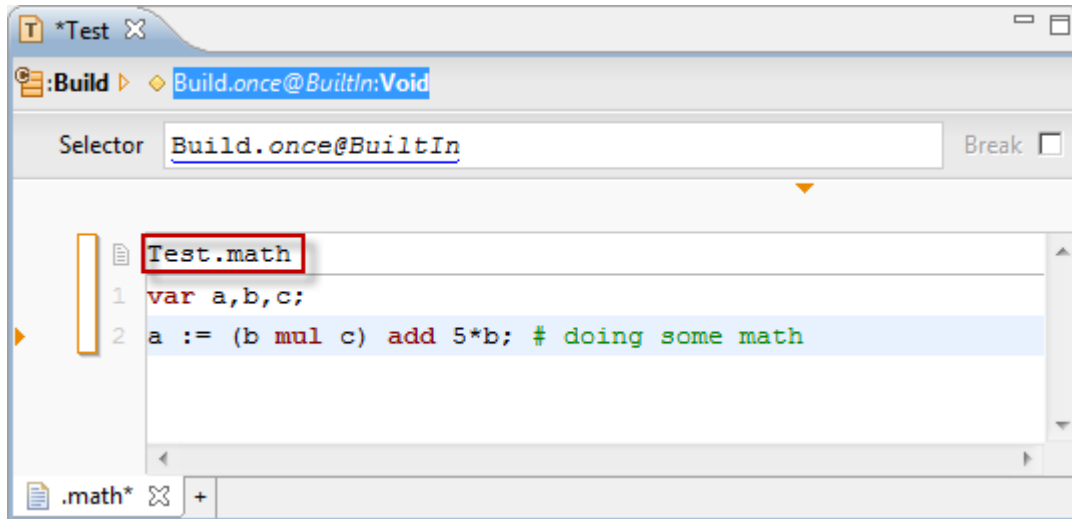
- The actifsource template editor is now supporting the new LanguageSyntaxStyle for the specific file extensions
- Let's test the new syntax highlighting



➤ Create a new **Template** in the **Package template**



- Name the **template** Test
- Click *Finish*
- ❗ Ignore the warnings



- ↳ In the *file line*, choose the *file extension* .math
- ↳ Add some Code using the new keywords
- ↳ Try to write some comment

