

# Qualidade e Testes de Software

Professor Gilmar Luiz de Borba

## Prática:

Qualidade de código com o plugin SONARLINT usando o Eclipse.

**Objetivo:** analisar algumas indicações sugeridas pelo SONAR para refatoração.

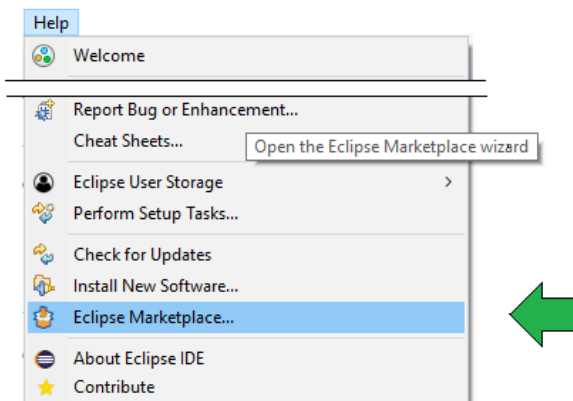
- (1) Criar o projeto: Sonar  
Criar o package: a seu critério  
Criar a classe: TestePilha  
Copiar a classe: TestePilha

**SALVE O PROJETO!**

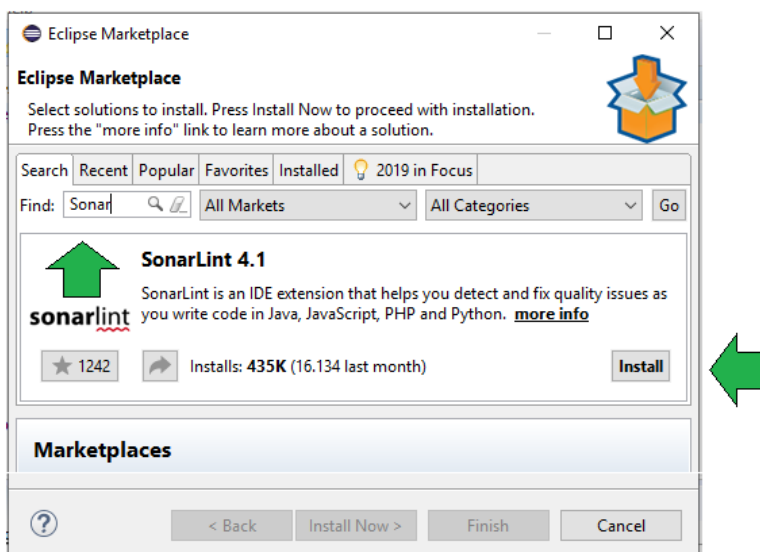
Para instalar o SONAR, siga os passos:

## (2) Instale o plugin *SonarLint*.

2.1 - Escolha a opção **Help**, em seguida **Eclipse Marketplace**



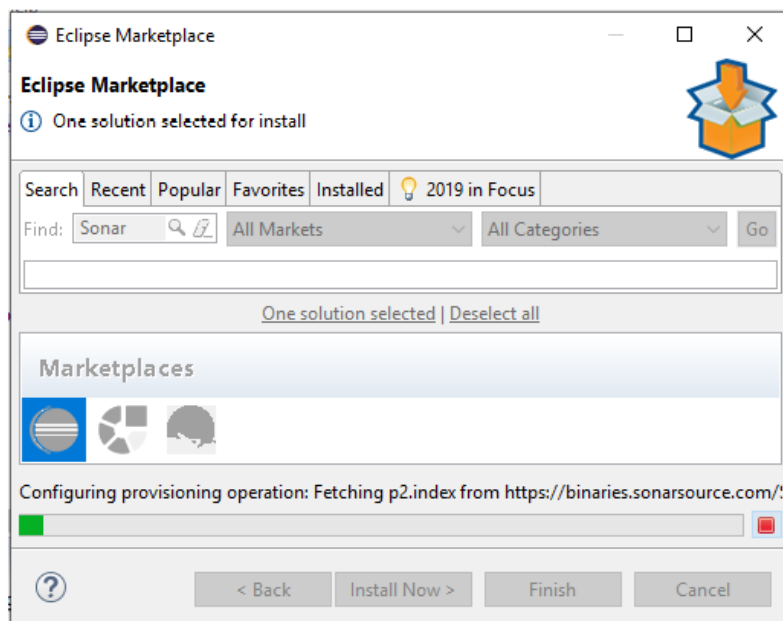
2.2 - Escolha Localizar, digite "Sonar", veja a imagem, escolher instalar.



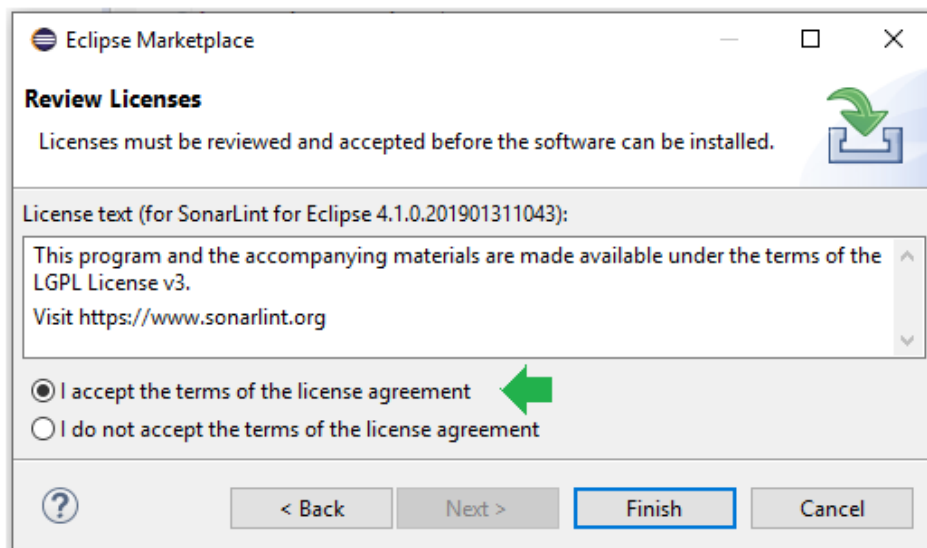
# Qualidade e Testes de Software

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2.3 - Escolha Localizar, digite “Sonar”, veja a imagem.



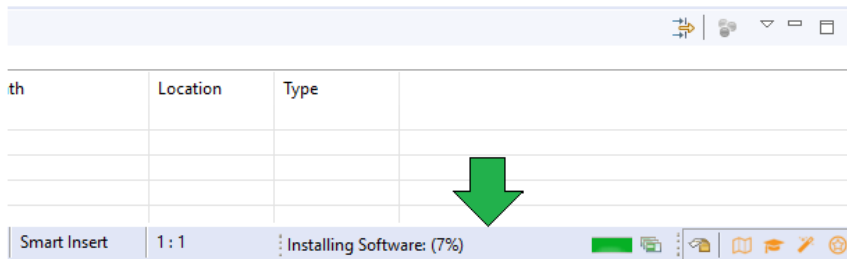
2.4 – Aceite os termos da licença do Plugin.



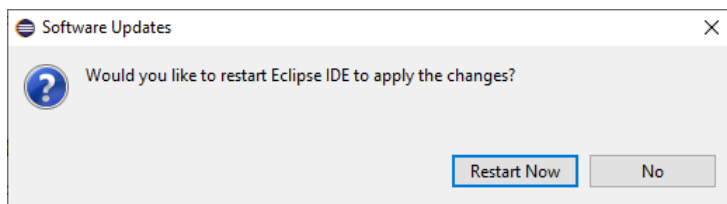
# Qualidade e Testes de Software

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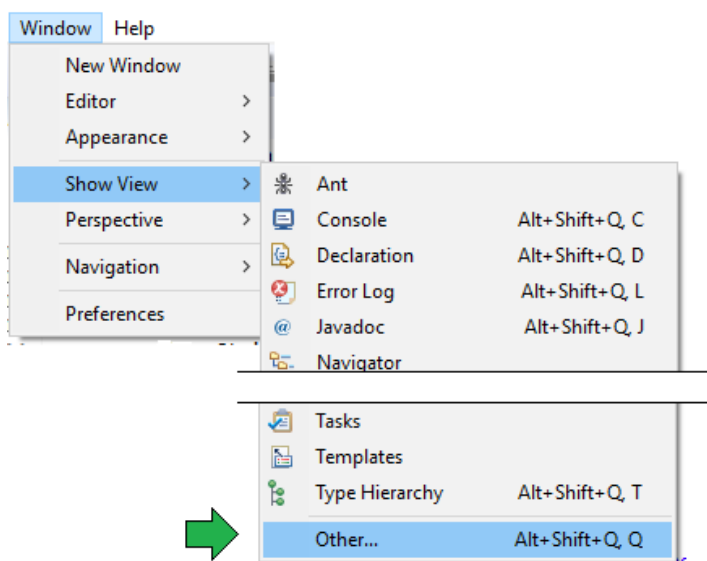
2.5 – Aguarde a instalação, alguns minutos.



2.6 – Confirme a restauração do Windows.



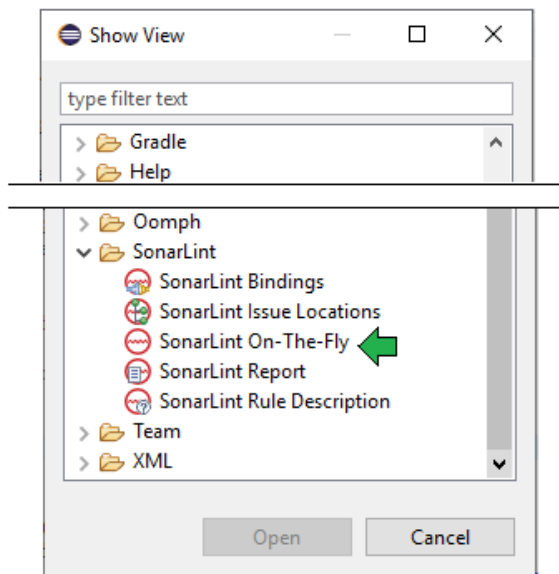
2.7 – Habilitar o Sonar Lint On-The-Fly. Escolher Windows + Show View + Other.



# Qualidade e Testes de Software

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## 2.8 – Escolher Sonar Lint On-The-Fly.



## 2.9 – Visualize as indicações do SonarLint.

The image shows the 'Problems' view in the Eclipse IDE, displaying 14 items reported by SonarLint On-The-Fly. The table below represents the data shown in the screenshot.

Date	Description	Resource
1 minute ago	⚠️ Immediately return this expression instead of assigning it to the temporary variable "menu".	TestePilha.java
1 minute ago	⚠️ Make numero a static final constant or non-public and provide accessors if needed.	TestePilha.java
1 minute ago	⚠️ Make pedido a static final constant or non-public and provide accessors if needed.	TestePilha.java
1 minute ago	⚠️ Make prox a static final constant or non-public and provide accessors if needed.	TestePilha.java
1 minute ago	⚠️ Make valor a static final constant or non-public and provide accessors if needed.	TestePilha.java
1 minute ago	⚠️ Remove the literal "false" boolean value.	TestePilha.java
1 minute ago	⚠️ Remove this unused import 'java.io.FileWriter'.	TestePilha.java
1 minute ago	⚠️ Remove this unused import 'java.io.IOException'.	TestePilha.java
1 minute ago	⚠️ Remove this unused import 'java.io.PrintWriter'.	TestePilha.java
1 minute ago	⚠️ Replace this use of System.out or System.err by a logger.	TestePilha.java
1 minute ago	⚠️ Replace this use of System.out or System.err by a logger.	TestePilha.java
1 minute ago	⚠️ Replace this use of System.out or System.err by a logger.	TestePilha.java
1 minute ago	⚠️ Define a constant instead of duplicating this literal "A PILHA está vazia!" 3 times.	TestePilha.java
1 minute ago	⚠️ Refactor this method to reduce its Cognitive Complexity from 65 to the 15 allowed.	TestePilha.java

Issues reported "on the fly" by SonarLint on files you have recently opened/edited

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# Qualidade e Testes de Software

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## 2.10 – Faça as refatorações com base nas indicações do SonarLint.

Problems @ Javadoc Declaration Console SonarLint On-The-Fly

9 items

Date	Description	Resource
few seconds ago	Remove this unused "aux" local variable.	TestePilha.java
12 minutes ago	Make numero a static final constant or non-public and provide accessors if needed.	TestePilha.java
12 minutes ago	Make pedido a static final constant or non-public and provide accessors if needed.	TestePilha.java
12 minutes ago	Make prox a static final constant or non-public and provide accessors if needed.	TestePilha.java
12 minutes ago	Make valor a static final constant or non-public and provide accessors if needed.	TestePilha.java
12 minutes ago	Replace this use of System.out or System.err by a logger.	TestePilha.java
12 minutes ago	Replace this use of System.out or System.err by a logger.	TestePilha.java
12 minutes ago	Replace this use of System.out or System.err by a logger.	TestePilha.java
12 minutes ago	Refactor this method to reduce its Cognitive Complexity from 30 to the 15 allowed.	TestePilha.java

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