

Création d'un projet JUnit5 avec IntelliJ

* créer un projet

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Création d'un projet JUnit5 avec IntelliJ (cont)

* placer le curseur sur le nom de la classe à tester

Création d'un projet JUnit5 avec IntelliJ (cont)

* ALT + ENTREE => une fenêtre s'affiche, choisir "nouveau test"

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Création d'un projet JUnit5 avec IntelliJ (cont)

* remplir, et cocher la case "importer JUnit5"

Test simple

```
<imports>
```



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Test simple (cont)

```
class FirstJUnit5Test {
```

Test simple (cont)

```
@Test
```



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Test simple (cont)

```
void myFirstTest() {
```

Test simple (cont)

```
assertEquals(2, 1+1, "1+1 <> 2 ??");
```



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Test simple (cont)

```
}
```

Test simple (cont)

```
}
```



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Annotations

@BeforeAll, @AfterAll

Annotations (cont)

@BeforeEach, @AfterAll

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Annotations (cont)

@Disabled("test non effectué, ce texte est affiché")

Annotations (cont)

@Disabled peut décorer des méthodes ou des classes

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Annotations (cont)

```
@DisplayName("texte affiché lors des tests")
```

Annotations (cont)

```
@RepeatedTest(10)
```



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Tests paramétrés

```
@ParameterizedTest
```

Tests paramétrés (cont)

```
@ValueSource(strings = { "Hello", "World" })
```



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Tests paramétrés (cont)

```
void testWithParams (String argument) {
```

Tests paramétrés (cont)

```
assertNotNull (argument) ;
```



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Tests paramétrés (cont)

```
}
```

Tests paramétrés (cont)

```
//possibilité d'exécuter un test plusieurs fois avec  
des arguments différents. A la place de assertNotNull  
il pourrait y avoir un appel de méthode, et/ou un  
bloc.
```



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Tests paramétrés, type des paramètres

types de base

String, int, long, or double

Tests paramétrés, type des paramètres (cont)

enums

voir doc

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Tests paramétrés, type des paramètres (cont)

méthode qui renvoie une collection

[voir doc](#)

Assertions, assertThrows

@Test



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Assertions, assertThrows (cont)

```
void exceptionTesting() {
```

Assertions, assertThrows (cont)

```
    Throwable exception =  
    assertThrows(MyException.class, () -> {
```

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Assertions, assertThrows (cont)

```
throw new MyException("a message");
```

Assertions, assertThrows (cont)

```
});
```



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Assertions, assertThrows (cont)

```
assertEquals("a message",  
exception.getMessage());
```

Assertions, assertThrows (cont)

```
}
```



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Assertions, assertThrows (cont)

//à la place du throw nex MyException, mettre la méthode à tester et susceptible de déclencher une exception

assertTimeout

@Test

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assertTimeout (cont)

```
void timeoutNotExceededWithResult() {
```

assertTimeout (cont)

```
int vrai=assertTimeout(ofMinutes(2), () ->{
```



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assertTimeout (cont)

```
return 10 ;
```

assertTimeout (cont)

```
});
```



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assertTimeout (cont)

```
assertEquals(10, vrai);
```

assertTimeout (cont)

```
}
```



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assertTimeout (cont)

```
// The assertion succeeds, and returns the supplied  
object.*
```

assertTimeout + appel de méthode

```
@Test
```

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assertTimeout + appel de méthode (cont)

```
void timeoutNotExceededWithMethod() {
```

assertTimeout + appel de méthode (cont)

```
String ret =  
assertTimeout(ofMinutes(2), MyClass::greeting);
```

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assertTimeout + appel de méthode (cont)

```
assertEquals("hello world!", ret);
```

assertTimeout + appel de méthode (cont)

```
// The assertion invokes a method reference and  
returns an object.
```

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assertTimeout, arrêt forcé

assertTimeoutPreemptively

utilisation comme assertTimeout

assertTimeout, arrêt forcé (cont)

arrêt et échec du test si timeout atteint

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Assertions

messages d'erreur	assertEquals (1,2,"non égaux") --> le message est après
----------------------	--

Assertions (cont)

asserts & lambdas	AssertTrue(false,() -> "message évalué dynamiquement")
----------------------	---

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Assertions (cont)

```
assertAll assertAll("texte", () -> code avec asserts,() -> code avec asserts ); etc...
```

Assertions (cont)

même contexte pour les blocs

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Tests groupés

@Nested définit, à l'intérieur d'une classe de tests, une 2e classe de tests avec ses propres @BeforeAll etc...

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