

Création d'un projet JUnit5 avec IntelliJ

\* créer un projet

C

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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

```
<im por ts>
```

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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 dynami- quement")
----------------------	---



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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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