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

```
<im por ts>
```

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Test simple (cont)

```
class FirstJ Uni t5Test {
```

Test simple (cont)

```
    @Test
```

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Test simple (cont)

```
void myFirs tTe st(){
```

Test simple (cont)

```
ass ert Equ als (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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