

Quick Start

De Wiki

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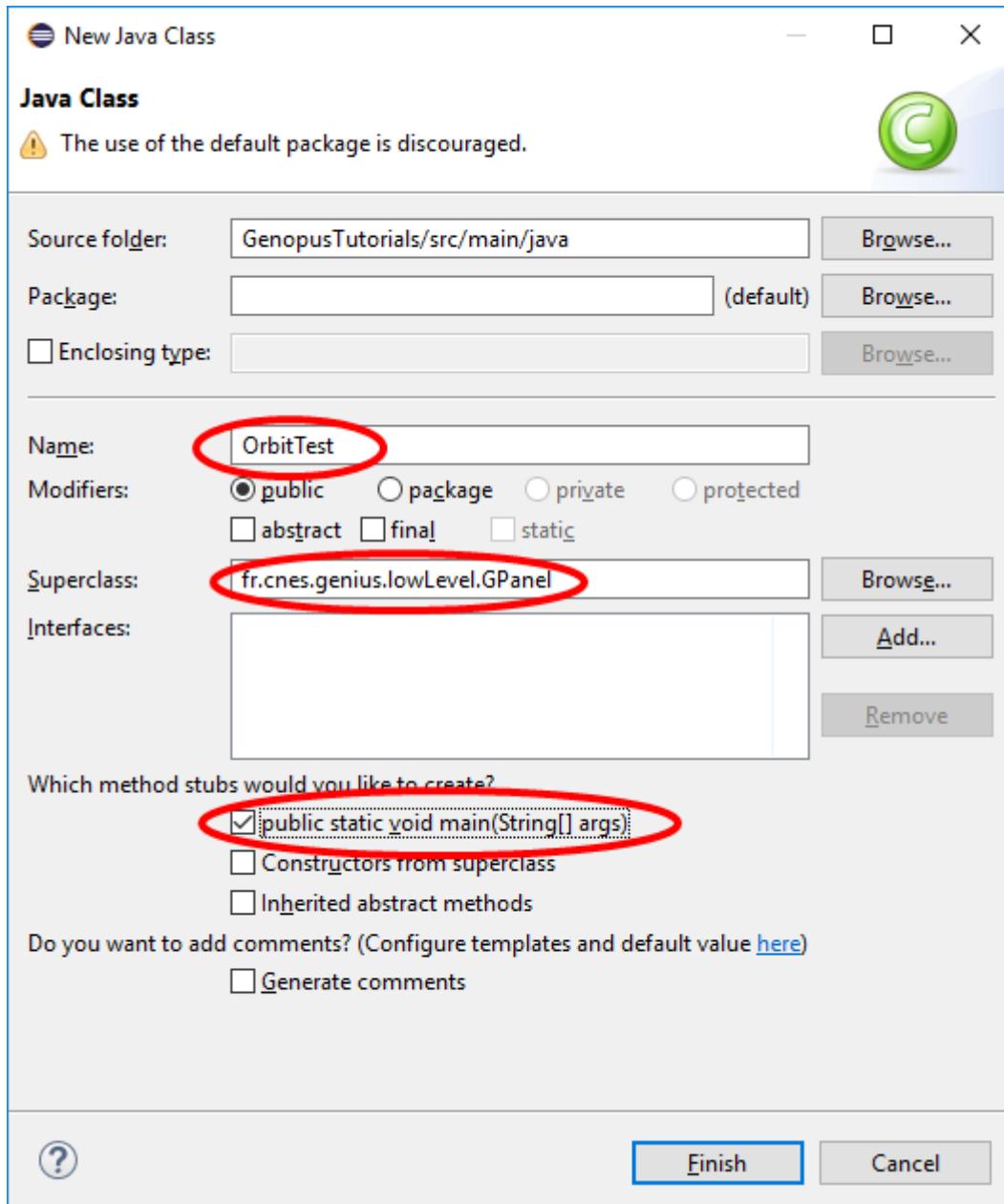
In this Quick Start page, we will see how (very easily) we will create an application to display and convert orbit data. Nevertheless, we assume that the user has already used the [GENIUS](#) library. Thus, he can refer to its own [Quick start](#) page. Of course, we also assume that he is familiar with the [Java](#) language as well as the [Eclipse](#) environment.

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Create the test class

So, first, we have to create a class extending from the [GPanel](#) one with a main method ...



Adding display() and generic() methods

Then, you will have to add unimplemented methods `display()` and `generic()`...

```
1 import fr.cnes.genius.lowLevel.GPanel;
2
3 public class OrbitTest extends GPanel {
4
5     public static void main(String[] args) {
6         // TODO Auto-generated method stub
7
8     }
9
10}
11}
```

Eclipse helps you to do it very quickly by clicking on the error sign:

```
1 import fr.cnes.genius.lowLevel.GPanel;
2
3 public class OrbitTest extends GPanel {
4
5     public static void main(String[] args) {
6         // TODO Auto-generated method stub
7     }
8 }
9
10 }
```

You will obtain this:

```
1 import fr.cnes.genius.exception.GException;
2 import fr.cnes.genius.lowLevel.GPanel;
3
4 public class OrbitTest extends GPanel {
5
6     public static void main(String[] args) {
7         // TODO Auto-generated method stub
8     }
9
10 }
11
12 @Override
13 public void display() throws GException {
14     // TODO Auto-generated method stub
15 }
16
17 @Override
18 public void generic() throws GException {
19     // TODO Auto-generated method stub
20 }
21
22 }
23
24 }
```

Create a GPOrbit object

Then, create a [GPOrbit](#) object and decide to display it using the [put\(\)](#) method:

```
1 import fr.cnes.genius.exception.GException;
2 import fr.cnes.genius.lowLevel.GPanel;
3 import fr.cnes.genopus.orbits.GPOrbit;
4
5 public class OrbitTest extends GPanel {
6
7     private final GPOrbit orbit;
8
9     public OrbitTest () {
10         orbit = new GPOrbit("MyOrbit");
11     }
12
13     public static void main(String[] args) {
14         // TODO Auto-generated method stub
15
16     }
17
18     @Override
19     public void display() throws GException {
20         put(orbit);
21     }
22
23     @Override
24     public void generic() throws GException {
25         // TODO Auto-generated method stub
26
27     }
28
29 }
```

Create a Frame

In the main method, create a frame using the [GFrame](#) class to put our OrbitTest panel inside ...

```

1 import fr.cnes.genius.exception.GException;
2 import fr.cnes.genius.lowLevel.GFrame;
3 import fr.cnes.genius.lowLevel.GPanel;
4 import fr.cnes.genopus.orbits.GPOrbit;
5
6 public class OrbitTest extends GPanel {
7
8     private final GPOrbit orbit;
9
10    public OrbitTest () {
11        orbit = new GPOrbit("MyOrbit");
12    }
13
14    public static void main(String[] args) {
15        final GFrame frame = new GFrame("OrbitTest", new OrbitTest());
16        frame.display();
17    }
18
19    @Override
20    public void display() throws GException {
21        put(orbit);
22    }
23
24    @Override
25    public void generic() throws GException {
26        // TODO Auto-generated method stub
27    }
28
29
30 }
31

```

Link with PATRIUS_DATASET

Do not forget to refer to the [PATRIUS_DATASET](#) (to get for example information about time scales) else you will get error messages.

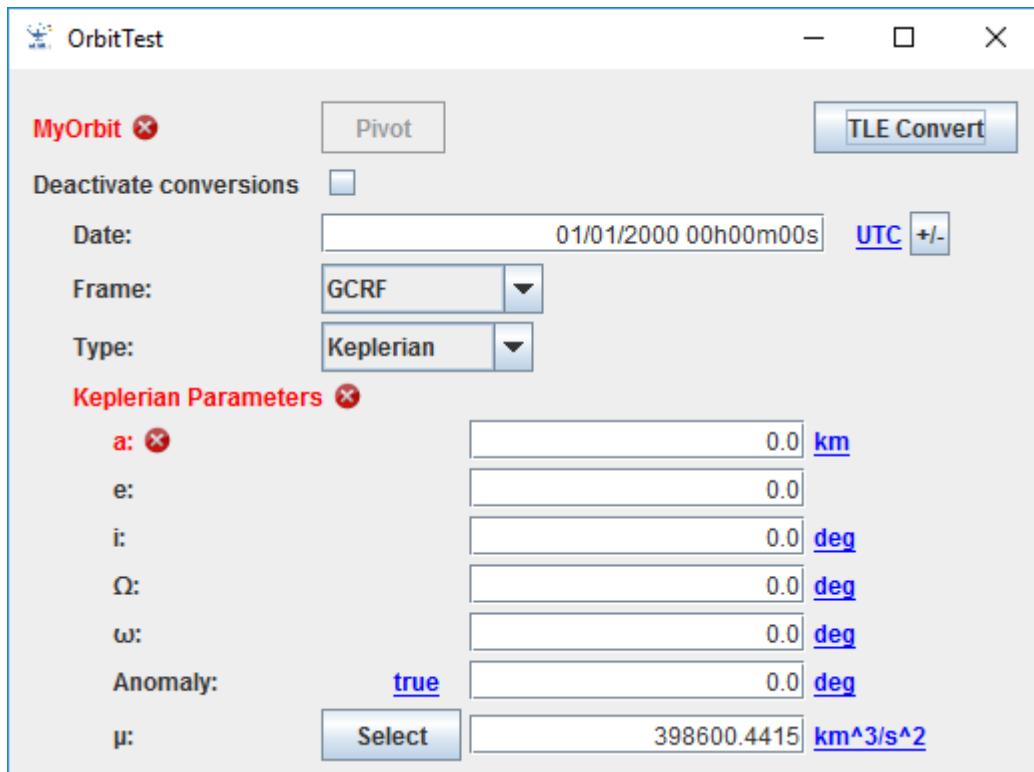
```

1 import fr.cnes.genius.exception.GException;
2 import fr.cnes.genius.lowLevel.GFrame;
3 import fr.cnes.genius.lowLevel.GPanel;
4 import fr.cnes.genopus.orbits.GPOrbit;
5 import fr.cnes.sirius.addons.patriusdataset.PatriusDataset;
6 import fr.cnes.sirius.patrius.utils.exception.PatriusException;
7
8 public class OrbitTest extends GPanel {
9
10    private final GPOrbit orbit;
11
12    public OrbitTest () {
13        orbit = new GPOrbit("MyOrbit");
14    }
15
16    public static void main(String[] args) throws PatriusException {
17        PatriusDataset.addResourcesFromPatriusDataset();
18        final GFrame frame = new GFrame("OrbitTest", new OrbitTest());
19        frame.display();
20    }
21
22    @Override
23    public void display() throws GException {
24        put(orbit);
25    }
26
27    @Override
28    public void generic() throws GException {
29        // TODO Auto-generated method stub
30    }
31
32
33}
34

```

See your widget !

And when you will execute, you will obtain this:



Code

Here is the code of this example (to copy it, if you want). Simple isn't it ?

```
import fr.cnes.genius.exception.GException;
import fr.cnes.genius.lowLevel.GFrame;
import fr.cnes.genius.lowLevel.GPanel;
import fr.cnes.genopus.orbits.GPOrbit;
import fr.cnes.sirius.addons.patriusdataset.PatriusDataset;
import fr.cnes.sirius.patrius.utils.exception.PatriusException;

public class OrbitTest extends GPanel {

    private final GPOrbit orbit;

    public OrbitTest () {
        orbit = new GPOrbit("MyOrbit");
    }

    public static void main(String[] args) throws PatriusException {
        PatriusDataset.addResourcesFromPatriusDataset();
        final GFrame frame = new GFrame("OrbitTest", new OrbitTest());
        frame.display();
    }

    @Override
    public void display() throws GException {
        put(orbit);
    }

    @Override
    public void generic() throws GException {
    }

}
```

Récupérée de « http://genopus.cnes.fr/index.php?title=Quick_Start&oldid=356 »

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