

# GComponentList

De Wiki

Aller à : [navigation](#), [rechercher](#)

[GComponentList](#)

[GComponentList](#) allows to display list of widgets :

- These widgets must have a constructor without arguments
- There is the possibility to duplicate an element only if the [Cloneable](#) interface (and a [clone\(\)](#) method) is implemented.

Two modes are also available:

- a « single » mode, displaying only one widget each time (case of complex widgets)
- a « multiple » mode displaying all the widgets placed behind each other

The [GComponentList](#) may be instantiated by giving the kind of class to display or an object that will serve to initialize new ones.

```
GComponentList test;  
test = new GComponentList(name, className.class, mode[true/false]); //  
First way to instantiate  
test = new GComponentList(name, defaultObj, mode[true/false]); // Second  
way to instantiate
```

The list may also be initialized by a predefined list:

```
ArrayList<GComponent> list = new ArrayList<GComponent>();  
list.add(new XXX(...));  
list.add(new XXX(...));  
  
GComponentList test = null;  
test.setList (list);
```

## Example

First, let us create a class, corresponding to a widget including several basic other widgets (here a [GEntryString](#), a [GEntryInt](#) and a [GEntryReal](#)):

```
public class TestForGComponentListWidget extends GPanel implements GReadWrite  
{  
  
    GEntryString widget1;  
    GEntryInt widget2;  
    GEntryReal widget3;  
  
    public TestForGComponentListWidget () {
```

```

    widget1 = new GEntryString("Text", "try");
    widget2 = new GEntryInt("Integer", 0);
    widget3 = new GEntryReal("Double", 0.);

}

public void generic() throws GException {
    beginOfElement("widForGC", "test");
        put(widget1);
        put(widget2);
        put(widget3);
    endOfElement();
}

public void read() throws GException { generic(); }
public void write() throws GException { generic(); }
public void display() throws GException { generic(); }

}

```

Note that it is recommended to encapsulate data with [beginOfElement\(\)](#) and [endOfElement\(\)](#) (see [Data file management](#) section) not to have conflicts when reading or writing between to data with the same name.

At last, we will have just to create a [GComponentList](#) for this kind of *TestForGComponentListWidget*

```

GComponentList test = new GComponentList("TestGC",
TestForGComponentListWidget.class, [true/false]);

```

Test GComponentList

Load

Save

Clear

Quit

Amount of items

3

Item number

<

1

>

[Items +/-](#)

Item 1

Text

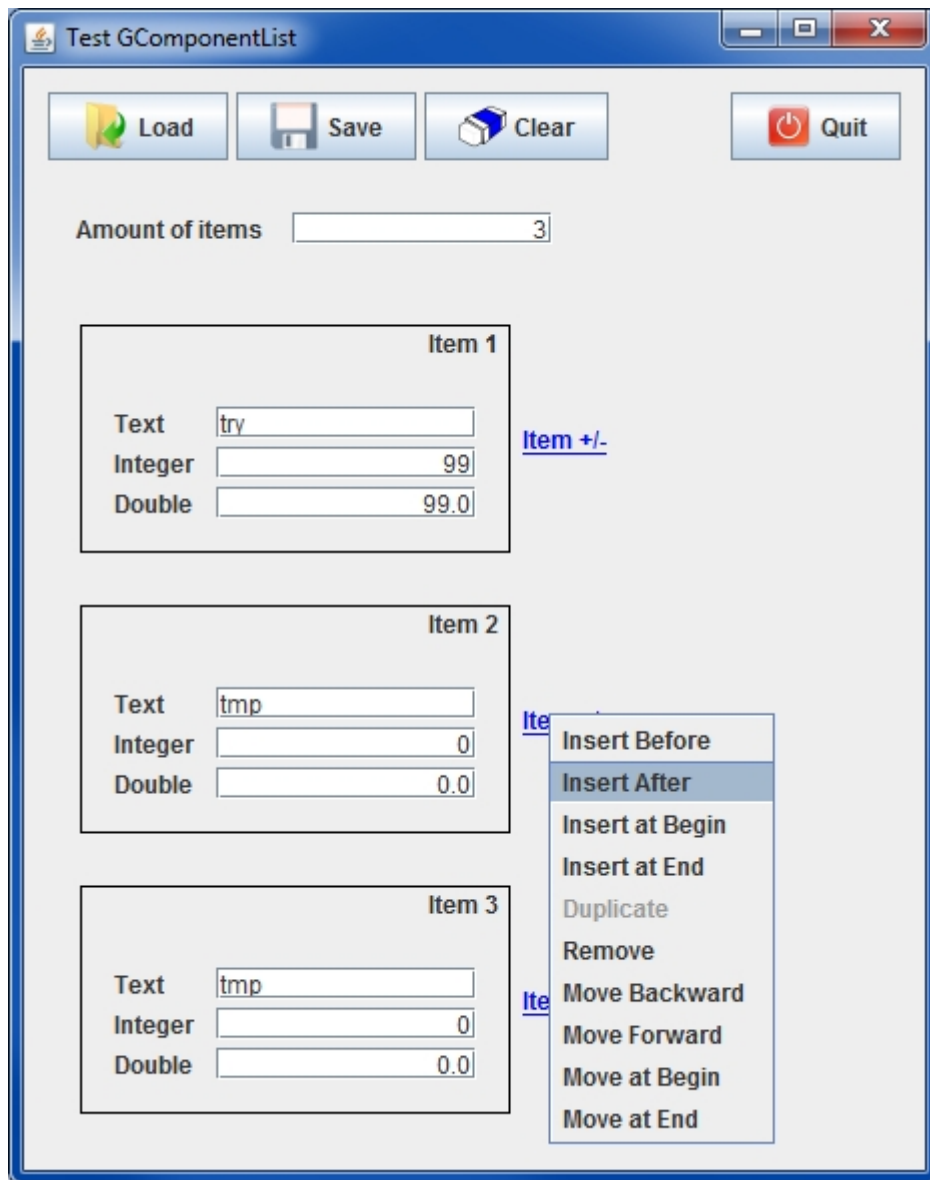
try

Integer

99

Double

99.0



It is also possible to custom some labels ("*Amount of Items*", "*Item number*" and "*Item n*") by using the [setLabels\(\)](#) method.

At last, it is also possible to use the [setEditable\(\)](#) method if we just want to display the list without modifying it.

[Return to the introduction](#) ↑ [Go to the next page](#) →

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## Menu de navigation

### Outils personnels

- [18.217.208.72](#)
- [Discussion avec cette adresse IP](#)
- [Créer un compte](#)
- [Se connecter](#)

## Espaces de noms

- [Page](#)
- [Discussion](#)

## Variantes

## Affichages

- [Lire](#)
- [Voir le texte source](#)
- [Historique](#)
- [Exporter en PDF](#)

## Plus

## Rechercher

## GENIUS

- [Welcome](#)
- [Quick Start](#)
- [News](#)

## Basic principles

- [GFrame and GPanel](#)
- [Main widgets](#)
- [Links with Swing](#)
- [GLayout](#)
- [Conditional Display](#)
- [GListener interface](#)

## More deeper in the concept

- [Units management](#)
- [GContainer](#)
- [GReadWrite interface and data files management](#)
- [Modified data](#)
- [Process management](#)

## Still more ...

- [Validity controls](#)
- [Menu bar](#)
- [Icons](#)
- [GClear interface](#)

## Still more again ...

- [Tooltips](#)
- [Shortcuts](#)
- [Copy & paste](#)
- [Plots](#)
- [Results File Management](#)
- [GPlotPanel](#)
- [GGroundPlotPanel](#)
- [Internationalization](#)
- [Log file](#)
- [Update data](#)

## Some other widgets

- [GTabbedPane](#)
- [GTable1D](#)
- [GTable2D](#)
- [GComponentList](#)
- [GDialog and GDetachedPanel](#)
- [GContextFileManagement](#)
- [How to build a standard application](#)
- [GPanTest](#)
- [Create your own widget](#)

## Evolutions

- [Main differences between V1.11.4 and V1.12.1](#)
- [Main differences between V1.10.1 and V1.11.4](#)
- [Main differences between V1.10 and V1.10.1](#)
- [Main differences between V1.9.1 and V1.10](#)
- [Main differences between V1.9 and V1.9.1](#)
- [Main differences between V1.8 and V1.9](#)
- [Main differences between V1.7 and V1.8](#)
- [Main differences between V1.6.2 and V1.7](#)
- [Main differences between V1.6.1 and V1.6.2](#)
- [Main differences between V1.6 and V1.6.1](#)
- [Main differences between V1.5 and V1.6](#)
- [Main differences between V1.4.1 and V1.5](#)
- [Main differences between V1.3 and V1.4.1](#)

## Training

- [Training slides](#)
- [Tutorials package for V1.12.1](#)
- [Tutorials package for V1.11.4](#)
- [Tutorials package for V1.10.1](#)
- [Tutorials package for V1.9.1](#)
- [Training & tutorials package for V1.8](#)
- [Training & tutorials package for V1.7](#)
- [Training & tutorials package for V1.6](#)

## Links

- [CNES freeware server](#)

## Outils

- [Pages liées](#)
- [Suivi des pages liées](#)
- [Pages spéciales](#)
- [Adresse de cette version](#)
- [Information sur la page](#)
- [Citer cette page](#)
  
- Dernière modification de cette page le 5 mai 2017 à 13:52.
- [Politique de confidentialité](#)
- [À propos de Wiki](#)
- [Avertissements](#)

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