



# Constructor

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# Constructor

- Durch den Konstruktor (Constructor) wird eine neue Instanz erstellt.

```
Student
- name: String = "Unkn"
- alter: int = 13
- mannlich: boolean = true
+ Student(String neuName, int neuAlter,
           boolean neuMannlich)
+ Student(String neuName, int neuAlter)
+ Student(String neuName)
+ Student(int neuAlter)
+ Student()
+ getName()
+ getAlter()
+ getMannlich()
+ setName(String neuName)
+ setAlter(int neuAlter)
+ setMannlich(boolean neuMannlich)
```

```
public class Student
{
    public Student(
        String neuName,
        int neuAlter,
        boolean neuMannlich)
    {
        setName(neuName);
        setAlter(neuAlter);
        setMannlich(neuMannlich);
    }

    public Student(
        String neuName,
        int neuAlter)
    {
        setName(neuName);
        setAlter(neuAlter);
        setMannlich(true);
    }
}
```

```
public void setName(
    String neuName)
{
    name = neuName;
}

public void setAlter(
    int neuAlter)
{
    alter = neuAlter;
}
```

The screenshot shows the 'BlueJ: Create Object' dialog box. At the top, the class name 'Student' is displayed with its constructor signature: 'Student(String neuName, int neuAlter, boolean neuMannlich)'. Below this, there is a text input field for the instance name, which contains 'student1'. Underneath, the constructor is expanded to show three arguments: a text field with 'Franz', a spinner field with '33', and a spinner field with 'true'. The dialog has a close button (X) in the top right corner.

```

public class Student
{
    public Student(
        String neuName,
        int neuAlter,
        boolean neuMannlich)
    {
        setName(neuName);
        setAlter(neuAlter);
        setMannlich(neuMannlich);
    }
    public Student(
        String neuName,
        int neuAlter)
    {
        setName(neuName);
        setAlter(neuAlter);
        setMannlich(true);
    }
}

```

```

public void setName(
    String neuName)
{
    name = neuName;
}
public void setAlter(
    int neuAlter)
{
    alter = neuAlter;
}
public void setMannlich(
    boolean neuMannlich)
{
    mannlich = neuMannlich;
}
}

```

student1 : Student

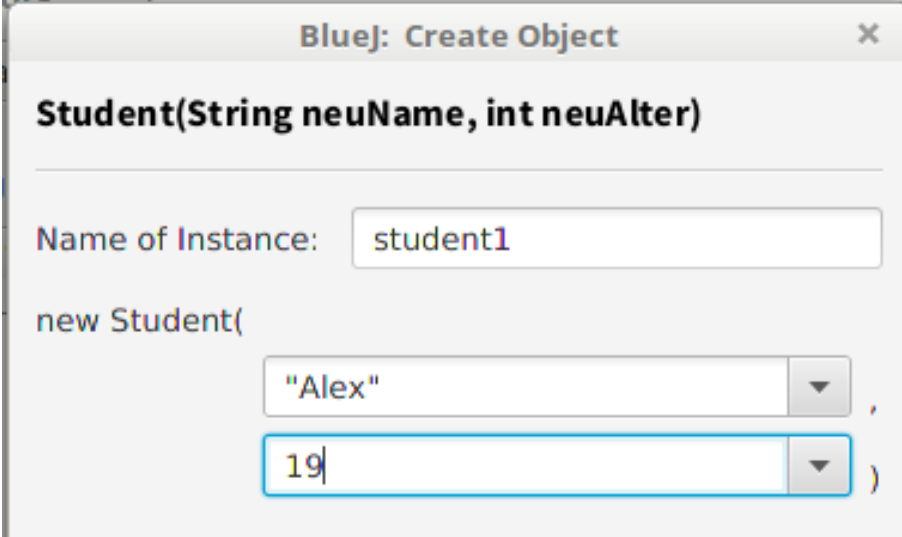
name: null

alter: 0

mannlich: flase

```
public class Student
{
    public Student(
        String neuName,
        int neuAlter,
        boolean neuMannlich)
    {
        setName(neuName);
        setAlter(neuAlter);
        setMannlich(neuMannlich);
    }
    public Student(
        String neuName,
        int neuAlter)
    {
        setName(neuName);
        setAlter(neuAlter);
        setMannlich(true);
    }
}
```

```
public void setName(
    String neuName)
{
    name = neuName;
}
public void setAlter(
    int neuAlter)
{
    alter = neuAlter;
}
public void setMannlich(
    boolean neuMannlich)
{
}
```



Bluej: Create Object

**Student(String neuName, int neuAlter)**

Name of Instance:

new Student(

,

)

```

public class Student
{
    public Student(
        String neuName,
        int neuAlter,
        boolean neuMannlich)
    {
        setName(neuName);
        setAlter(neuAlter);
        setMannlich(neuMannlich);
    }
    public Student(
        String neuName,
        int neuAlter)
    {
        setName(neuName);
        setAlter(neuAlter);
        setMannlich(true);
    }
}

```

```

public void setName(
    String neuName)
{
    name = neuName;
}
public void setAlter(
    int neuAlter)
{
    alter = neuAlter;
}
public void setMannlich(
    boolean neuMannlich)
{
    mannlich = neuMannlich;
}
}

```

student1 : Student

name: null

alter: 0

mannlich: flase