Class java.awt.TextField

```
java.lang.Object
   |
   +----java.awt.Component
           |
           +----java.awt.TextComponent
                   |
                   +----java.awt.TextField
```
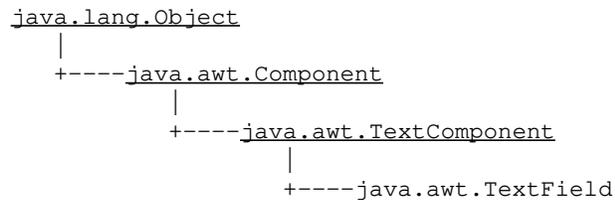
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public class **TextField**
extends TextComponent

TextField is a component that allows the editing of a single line of text.

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o **TextField**()
 Constructs a new TextField.
o **TextField**(int)
 Constructs a new TextField initialized with the specified columns.
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o **TextField**(String, int)
 Constructs a new TextField initialized with the specified text and columns.

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 Creates the TextField's peer.
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 Returns true if this TextField has a character set for echoing.
o **getColumns**()

Returns the number of columns in this TextField.
o **getEchoChar**()
Returns the character to be used for echoing.
o **minimumSize**(int)
Returns the minimum size Dimensions needed for this TextField with the specified amount of columns.
o **minimumSize**()
Returns the minimum size Dimensions needed for this TextField.
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Returns the String of parameters for this TExtField.
o **preferredSize**(int)
Returns the preferred size Dimensions needed for this TextField with the specified amount of columns.
o **preferredSize**()
Returns the preferred size Dimensions needed for this TextField.
o **setEchoCharacter**(char)
Sets the echo character for this TextField.

Constructors

o **TextField**

```
public TextField()
```

Constructs a new TextField.

o **TextField**

```
public TextField(int cols)
```

Constructs a new TextField initialized with the specified columns.
Parameters:
cols – the number of columns

o **TextField**

```
public TextField(String text)
```

Constructs a new TextField initialized with the specified text.
Parameters:
text – the text to be displayed

o **TextField**

```
public TextField(String text,
                 int cols)
```

Constructs a new TextField initialized with the specified text and columns.

Parameters:
>text – the text to be displayed
>cols – the number of columns

Methods

o **addNotify**

```
public synchronized void addNotify()
```

Creates the TextField's peer. The peer allows us to modify the appearance of the TextField without canging its functionality.
Overrides:
>addNotify in class Component

o **getEchoChar**

```
public char getEchoChar()
```

Returns the character to be used for echoing.
See Also:
>setEchoCharacter, echoCharIsSet

o **echoCharIsSet**

```
public boolean echoCharIsSet()
```

Returns true if this TextField has a character set for echoing.
See Also:
>setEchoCharacter, getEchoChar

o **getColumns**

```
public int getColumns()
```

Returns the number of columns in this TextField.

o **setEchoCharacter**

```
public void setEchoCharacter(char c)
```

Sets the echo character for this TextField. This is useful for fields where the user input shouldn't be echoed to the screen, as in the case of a TextField that represents a password.
Parameters:
>c – the echo character for this TExtField
See Also:
>echoCharIsSet, getEchoChar

o **preferredSize**

```
public Dimension preferredSize(int cols)
```

Returns the preferred size Dimensions needed for this TextField with the specified amount of columns.

Parameters:
cols – the number of columns in this TextField

o **preferredSize**

```
public Dimension preferredSize()
```

Returns the preferred size Dimensions needed for this TextField.

Overrides:
preferredSize in class Component

o **minimumSize**

```
public Dimension minimumSize(int cols)
```

Returns the minimum size Dimensions needed for this TextField with the specified amount of columns.

Parameters:
cols – the number of columns in this TextField

o **minimumSize**

```
public Dimension minimumSize()
```

Returns the minimum size Dimensions needed for this TextField.

Overrides:
minimumSize in class Component

o **paramString**

```
protected String paramString()
```

Returns the String of parameters for this TExtField.

Overrides:
paramString in class TextComponent