Class java.awt.TextField

```
java.lang.Object
   |
   +----java.awt.Component
           |
           +----java.awt.TextComponent
                   |
                   +----java.awt.TextField
```

---

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

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

Returns the number of columns in this TextField.

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

Constructors

- **TextField**

```
public TextField()
```

  Constructs a new TextField.

- **TextField**

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

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

- **TextField**

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

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

- **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