



1. Java Predefined
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Working with Java Predefined Classes

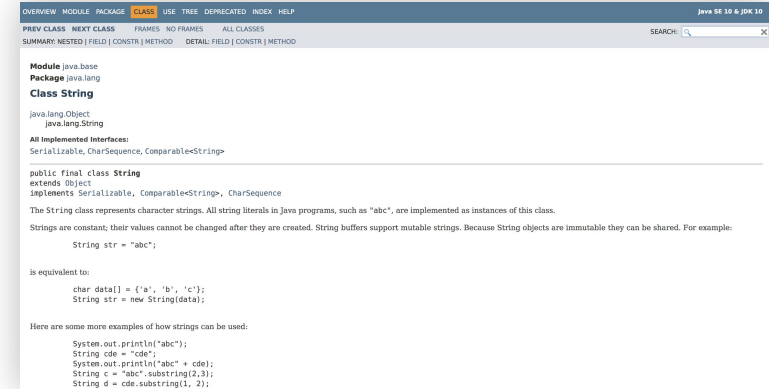
Java Predefined Classes Documentation

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- Class description
- Field Summary
- Constructor Summary
- Method Summary
 - Instance methods (with and without parameters)
 - Static methods (with and without parameters)

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Creating objects

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new operator

```
String message = new String();
```

Constructor
method



2. Creating objects

Constructor Summary

Constructors

Constructor	Description
<code>String()</code>	Initializes a newly created <code>String</code> object so that it represents an empty character sequence.
<code>String(byte[] bytes)</code>	Constructs a new <code>String</code> by decoding the specified array of bytes using the platform's default charset.
<code>String(byte[] ascii, int hibyte)</code>	Deprecated. This method does not properly convert bytes into characters.
<code>String(byte[] bytes, int offset, int length)</code>	Constructs a new <code>String</code> by decoding the specified subarray of bytes using the platform's default charset.
<code>String(byte[] ascii, int hibyte, int offset, int count)</code>	Deprecated. This method does not properly convert bytes into characters.
<code>String(byte[] bytes, int offset, int length, String charsetName)</code>	Constructs a new <code>String</code> by decoding the specified subarray of bytes using the specified charset.
<code>String(byte[] bytes, int offset, int length, Charset charset)</code>	Constructs a new <code>String</code> by decoding the specified subarray of bytes using the specified charset.
<code>String(byte[] bytes, String charsetName)</code>	Constructs a new <code>String</code> by decoding the specified array of bytes using the specified charset.
<code>String(byte[] bytes, Charset charset)</code>	Constructs a new <code>String</code> by decoding the specified array of bytes using the specified charset.
<code>String(char[] value)</code>	Allocates a new <code>String</code> so that it represents the sequence of characters currently contained in the character array argument.
<code>String(char[] value, int offset, int count)</code>	Allocates a new <code>String</code> that contains characters from a subarray of the character array argument.
<code>String(int[] codePoints, int offset, int count)</code>	Allocates a new <code>String</code> that contains characters from a subarray of the Unicode code point array argument.
<code>String(String original)</code>	Initializes a newly created <code>String</code> object so that it represents the same sequence of characters as the argument; in other words, the newly created string is a copy of the argument string.



new operator

```
char[] letters= {'h','e','l','l','o'};  
String message = new String(letters);
```

Constructor
method



new operator

```
char[] letters= {'h','e','l','l','o'};  
String message = new String(letters);
```

Method parameters
(parameter1, parameter2, ...)



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2. Creating objects

Method Summary

All Methods	Static Methods	Instance Methods	Concrete Methods	Deprecated Methods
Modifier and Type	Method	Description		
static String	<code>copyValueOf(char[] data)</code>	Equivalent to <code>valueOf(char[])</code> .		
static String	<code>copyValueOf(char[] data, int offset, int count)</code>	Equivalent to <code>valueOf(char[], int, int)</code> .		
static String	<code>format(String format, Object... args)</code>	Returns a formatted string using the specified format string and arguments.		
static String	<code>format(Locale l, String format, Object... args)</code>	Returns a formatted string using the specified locale, format string, and arguments.		
static String	<code>join(CharSequence delimiter, CharSequence... elements)</code>	Returns a new String composed of copies of the <code>CharSequence</code> elements joined together with a copy of the specified delimiter.		
static String	<code>join(CharSequence delimiter, Iterable<? extends CharSequence> elements)</code>	Returns a new String composed of copies of the <code>CharSequence</code> elements joined together with a copy of the specified delimiter.		
static String	<code>valueOf(boolean b)</code>	Returns the string representation of the boolean argument.		
static String	<code>valueOf(char c)</code>	Returns the string representation of the char argument.		
static String	<code>valueOf(char[] data)</code>	Returns the string representation of the char array argument.		
static String	<code>valueOf(char[] data, int offset, int count)</code>	Returns the string representation of a specific subarray of the char array argument.		
static String	<code>valueOf(double d)</code>	Returns the string representation of the double argument.		
static String	<code>valueOf(float f)</code>	Returns the string representation of the float argument.		
static String	<code>valueOf(int i)</code>	Returns the string representation of the int argument.		
static String	<code>valueOf(long l)</code>	Returns the string representation of the long argument.		
static String	<code>valueOf(Object obj)</code>	Returns the string representation of the Object argument.		



static method

```
String text = String.valueOf(3.14f);
```

static method

```
String text = String.valueOf(3.14f);
```

static method



String literal

```
String message= "hello";
```

Calling methods

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Instance method

```
[ClassDataType] objectVariable = ...;  
  
objectVariable.methodName(parameter1, parameter2, ..., parameterN);
```

Syntax

```
String text= "Hello world";  
  
int numCharacters= text.length(); //11  
char character= text.charAt(0); //H
```

Example

Static method

```
ClassName.methodName(parameter1, parameter2, ..., parameterN);
```

Syntax

```
String texto = String.valueOf(3.1416f);
```

Example

Using fields

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4. Using fields

Field Summary

Fields

Modifier and Type	Field	Description
static double	E	The double value that is closer than any other to <i>e</i> , the base of the natural logarithms.
static double	PI	The double value that is closer than any other to <i>pi</i> , the ratio of the circumference of a circle to its diameter.



[Math class Java Documentation](#)

Static field

```
ClassName.fieldName;
```

Syntax

```
double radio = 4.5;  
double areaCirculo= Math.PI*Math.pow(radio,2);
```

Example

“El riesgo más grande es no tomar ninguno. En un mundo que está cambiando tan rápido, la única estrategia que está garantizada a fracasar es no tomar riesgos.”

Mark Zuckerberg, co-fundador de Facebook y jefe ejecutivo

