

Class `java.lang.Character`

```
java.lang.Object
|
+----java.lang.Character
```

```
public final class Character
extends Object
```

The `Character` class provides an object wrapper for `Character` data values and serves as a place for character-oriented operations. A wrapper is useful because most of Java's utility classes require the use of objects. Since characters are not objects in Java, they need to be "wrapped" in a `Character` instance.

Version:

1.25, 08/17/95

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o **MAX_RADIX**

The maximum radix available for conversion to and from Strings.

o **MIN_RADIX**

The minimum radix available for conversion to and from Strings.

Constructor Index

o **Character**(char)

Constructs a `Character` object with the specified value.

Method Index

o **charValue**()

Returns the value of this `Character` object.

o **digit**(char, int)

Returns the numeric value of the character digit using the specified radix.

- o **forDigit**(int, int)
Returns the character value for the specified digit in the specified radix.
- o **isDigit**(char)
Determines if the specified character is a ISO-LATIN-1 digit.
- o **isLowerCase**(char)
Determines if the specified character is ISO-LATIN-1 lower case.
- o **isSpace**(char)
Determines if the specified character is ISO-LATIN-1 white space according to Java.
- o **isUpperCase**(char)
Determines if the specified character is ISO-LATIN-1 upper case.
- o **toLowerCase**(char)
Returns the lower case character value of the specified ISO-LATIN-1 character.
- o **toString**()
Returns a String object representing this character's value.
- o **toUpperCase**(char)
Returns the upper case character value of the specified ISO-LATIN-1 character.

Variables

o MIN_RADIX

```
public final static int MIN_RADIX
```

The minimum radix available for conversion to and from Strings. The lowest minimum value that a radix can be is 2.

See Also:

[toString](#)

o MAX_RADIX

```
public final static int MAX_RADIX
```

The maximum radix available for conversion to and from Strings. The largest maximum value that a radix can have is 36.

See Also:

[toString](#)

Constructors

o Character

```
public Character(char value)
```

Constructs a Character object with the specified value.

Parameters:

value – value of this Character object

Methods

o `isLowerCase`

```
public static boolean isLowerCase(char ch)
```

Determines if the specified character is ISO-LATIN-1 lower case.

Parameters:

ch – the character to be tested

Returns:

true if the character is lower case; false otherwise.

o `isUpperCase`

```
public static boolean isUpperCase(char ch)
```

Determines if the specified character is ISO-LATIN-1 upper case.

Parameters:

ch – the character to be tested

Returns:

true if the character is upper case; false otherwise.

o `isDigit`

```
public static boolean isDigit(char ch)
```

Determines if the specified character is a ISO-LATIN-1 digit.

Parameters:

ch – the character to be tested

Returns:

true if this character is a digit; false otherwise.

o `isSpace`

```
public static boolean isSpace(char ch)
```

Determines if the specified character is ISO-LATIN-1 white space according to Java.

Parameters:

ch – the character to be tested

Returns:

true if the character is white space; false otherwise.

o `toLowerCase`

```
public static char toLowerCase(char ch)
```

Returns the lower case character value of the specified ISO-LATIN-1 character. Characters that are not upper case letters are returned unmodified.

Parameters:

ch – the character to be converted

o toUpperCase

```
public static char toUpperCase(char ch)
```

Returns the upper case character value of the specified ISO-LATIN-1 character. Characters that are not lower case letters are returned unmodified. Note that German ess-zed and latin small letter y diaeresis have no corresponding upper case letters, even though they are lower case. There is a capital y diaeresis, but not in ISO-LATIN-1...

Parameters:

ch – the character to be converted

o digit

```
public static int digit(char ch,  
                        int radix)
```

Returns the numeric value of the character digit using the specified radix. If the character is not a valid digit, it returns -1.

Parameters:

ch – the character to be converted

radix – the radix

o forDigit

```
public static char forDigit(int digit,  
                            int radix)
```

Returns the character value for the specified digit in the specified radix. If the digit is not valid in the radix, the 0 character is returned.

Parameters:

digit – the digit chosen by the character value

radix – the radix containing the digit

o charValue

```
public char charValue()
```

Returns the value of this Character object.

o toString

```
public String toString()
```

Returns a String object representing this character's value.

Overrides:

toString in class Object

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