



Double Class

Contains methods for the Double primitive data type.

Namespace

[System](#)

Usage

For more information on Double, see [Double Data Type](#).

Double Methods

The following are methods for `Double`.

- [format\(\)](#)
Returns the String value for this Double using the locale of the context user
- [intValue\(\)](#)
Returns the Integer value of this Double by casting it to an Integer.
- [longValue\(\)](#)
Returns the Long value of this Double.
- [round\(\)](#)
Returns the closest Long to this Double value.
- [valueOf\(stringToDouble\)](#)
Returns a Double that contains the value of the specified String. As in Java, the String is interpreted as representing a signed decimal.
- [valueOf\(fieldValue\)](#)
Converts the specified object to a Double value. Use this method to convert a history tracking field value or an object that represents a Double value.

format()

Returns the String value for this Double using the locale of the context user

Signature

```
public String format()
```

Return Value

Type: [String](#)

Example

```
Double myDouble = 1261992;  
system.assertEquals('1,261,992', myDouble.format());
```





```
public Integer intValue()
```

Return Value

Type: [Integer](#)

Example

```
Double DD1 = double.valueOf('3.14159');
Integer value = DD1.intValue();
system.assertEquals(value, 3);
```

longValue()

Returns the Long value of this Double.

Signature

```
public Long longValue()
```

Return Value

Type: [Long](#)

Example

```
Double myDouble = 421994;
Long value = myDouble.longValue();
System.assertEquals(421994, value);
```

round()

Returns the closest Long to this Double value.

Signature

```
public Long round()
```

Return Value

Type: [Long](#)

Example

```
Double D1 = 4.5;
Long L1 = D1.round();
System.assertEquals(5, L1);

Double D2= 4.2;
Long L2= D2.round();
System.assertEquals(4, L2);

Double D3= -4.7;
Long L3= D3.round();
System.assertEquals(-5, L3);
```



Signature

```
public static Double valueOf(String stringToDouble)
```

Parameters

stringToDouble

Type: [String](#)

Return Value

Type: [Double](#)

Example

```
Double DD1 = double.valueOf('3.14159');
```

valueOf(fieldValue)

Converts the specified object to a Double value. Use this method to convert a history tracking field value or an object that represents a Double value.

Signature

```
public static Double valueOf(Object fieldValue)
```

Parameters

fieldValue

Type: [Object](#)

Return Value

Type: [Double](#)

Usage

Use this method with the `oldValue` or `newValue` fields of history sObjects, such as `AccountHistory`, when the field type corresponds to a Double type, like a number field.

Example

```
List<AccountHistory> ahlist =  
    [SELECT Field,OldValue,NewValue  
     FROM AccountHistory];  
for(AccountHistory ah : ahlist) {  
    System.debug('Field: ' + ah.Field);  
    if (ah.field == 'NumberOfEmployees') {  
        Double oldValue =  
            Double.valueOf(ah.OldValue);  
        Double newValue =  
            Double.valueOf(ah.NewValue);  
    }  
}
```

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