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## Java string format number decimal places

### How to limit decimal places in Java

- Using System.format() method
- String.format() method
- DecimalFormat
- Math.round
- Apache commons math library

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### Java DecimalFormat

Convert large decimal numbers to 2 decimal place with Rounding



```
package org.arpit.java2blog;

import java.util.Formatter;

public class FormatterformatDouble {

    public static void main(String[] args) {
        double d = 2.456534;

        Formatter formatter = new Formatter();
        formatter.format("%.2f", d);
        System.out.println("Double upto 2 decimal places: " + formatter.toString());
    }
}
```

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### Using RoboHelp (2017 release)



May 2, 2017

```
package org.arpit.java2blog;

import java.math.BigDecimal;
import java.math.RoundingMode;
import java.text.DecimalFormat;

public class BigDecimalformatDouble {
    public static void main(String[] args) {

        double d = 2.456534;
        BigDecimal bd=new BigDecimal(d).setScale(2,RoundingMode.HALF_DOWN);
        System.out.println("Double upto 2 decimal places: "+bd.doubleValue());

        // You can use RoundingMode to round double Up or Down
        BigDecimal bdDown=new BigDecimal(d).setScale(2,RoundingMode.DOWN);
        System.out.println("Double upto 2 decimal places - RoundingMode.DOWN: "+bdDown.doubleValue());

        BigDecimal bdUp=new BigDecimal(d).setScale(2,RoundingMode.UP);
        System.out.println("Double upto 2 decimal places - RoundingMode.UP: "+bdUp.doubleValue());
    }
}
```

Java format string number to 2 decimal places.

Thus, you can pass the arguments in any order. The only difference is the type of return; Printf () Prints the formatted string for the default output stream (mostly console), while string.format () returns the formatted string. The last part, long, represents the style of format used to make a more specific selection. String product = "pizza \*"; Double price = 5.99; String string = string.format ("% 2 \$ s is USD% 1 \$ .2P", price, product); System.out.println (STR); With arguments, the order of arguments do not matter. They are added more formatting flags after this. Follow me on Twitter and LinkedIn. You can also subscribe to the RSS feed. SymbolMethod 1: Format () functionformat () functionformat () can be used to format decimal values, rounding them and displaying only a specific number of elements after the decimal. Syntax: Format (Round (Value, N), NSMALL = N) Parameters: You can take two parameters.round (Value, N) Function: that you specify the number of decimal places to select. % Integer (incl. This makes string.format () more versatile because you can use the value returned from more than one way. Here is an example: string name = "john doe"; string string = string. format ("My name is% s", name); system.out.println (str); the string.format () Method ALSO Allows US TO Set The Width, Alignment, and Padding of the Formatted String: String Message = " Hey \* à Á " à Á à " Message); string.format (" |% 20.3S | ", Message); BESIDES FORMATTING, THE STRING.FORMAT () METHOD CAN ALSO BE USED TO CONVERT AND FORMAT OTHER DATA TYPES INTO STRING: String String. format ("% d ", 999); string str2 = string.format ("% F, 56.7); string str3 = string.format ("% x ", 678); string str4 = string.format ("% % 99); string str5 = string.format ("% % ", new Date ()); string str6 = string.format ("% C ", 'a'); System.out.println (str2); System.out.println (str3); System.out.println (str4); ratamrof arap rettamrof essalc a etnemanretni mazlittu sodot©Àm setse sobma ouqrop otst. ssalc tamrofegasseM eht si dooh eht reduu rettamrof esu ton seod taht avaj ni sgnirts gnittamrof fo yaw tsal eht .yllaniF .)redliub(nltnirp.tuo.metsys.)))(won.emiTlacol.)(won.etaDlacoL.,"Tt% si emit dna Dt% si etaD"(tamrof.rettamrof.):(redliub(rettamrof.wen = rettamrof rettamrof .)redliubBgnirtS :noitpo elbixelf erom a ti sekam taht redliubBgnirtS htiw skrow osla ssalc rettamrof eht .)rettamrof(nltnirp.tuo.metsys.)))(won.emiTlacol.)(won.etaDlacoL.,"Tt% si emit dna Dt% si etaD"(tamrof.rettamrof.):(rettamrof.wen = rettamrof rettamrof .)rotcurtsnoc sti gnisu yb ecnatsni wen a etaitnatsni ot deen uoy .yltceird ssalc rettamrof eht esu ot .sadamrof sadroc sa moc sodariporpa siacol son seyÁrdap so iutitsbus sioped e .so-ataromf .socejbo ed otunujoc mu ehloca tamrofegasseM essalc A .ahlocse e aroh .atad .orem?Àn :roirepus levÁn ed otamrof ed sopit ortauq metsixE .)(ftnirp odot©Àm oa acilpa es m©Àbmat )(tamrof.gnirtS arap otid odut .missA .lcn( regetnl d% retcarahc edocinU retcarahC c% llun fi çÀeslafaÀ .llun-non fi çÀeurteÀ epyt ynÀ b% rebmun tniop-gnitaolf fo tuptuo xeH )lamiceDgiB tpeccx( tniop gnitaolF a% tuptuO epyT atad reifcepS :)(tamrof.gnirtS odot©Àm olep sodatropus otamrof ed serodacifcepse so sodot ed atsil amu jÀtse iuca .etnemlanif .seled mu reuqlauq odnazilltu ledroc mu ratamrof arap serodacifcepse somsem so razillitu edoP .avaj me gnirts arap orietni orem?Àn mu ed oÈÁsrevnoc a erbos siam rebas arap ogitra etse a sohlo ed atsv amu \*AD ;)99 ."o#"(tamrof.gnirtS ;)99 ."x#"(tamrof.gnirtS ;)99 ."o"(tamrof.gnirtS ;)99999999 ."d#"(tamrof.gnirtS ;)999 ."d+ "(tamrof.gnirtS ;)999 ."|d010%|(tamrof.gnirtS ;)999 ."|d01-%|(tamrof.gnirtS ;)999 ."|d01%|(tamrof.gnirtS :sodad ed sopit sortuo arap otnemihnceerp e aringral racifcepse edop m©Àbmat .sgnirts sa omoc laT .)rtst(nltnirp.tuo.metsys.))rtst(nltnirp.tuo.metsys.))dettamrof.gnirtS A .rop odatsneserper ©À lamiced orem?Àn o R augnAl aN latot oškerP (ftnirp.tuo.metsys.)) avlIS ad oÈAoj" . 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