

# Java Cheat Sheet

1. `// [comment]`

Single line comment.

2. `/* [comment] */`

Multi line comment.

3. `public`

This can be imported publically.

4. `import [object].*`

Imports everything in object.

5. `static`

Going to be shared by every `[object]`.

6. `final`

Cannot be changed; common to be defined with all uppercase.

7. `double`

Integer with numbers that can have decimals.

8. `;`

Put after every command.

9. `String`

Just a string of characters.

10. `Private`

Can only be changed by a method.

11. `int`

Can store numbers from  $2^{-31}$  to  $2^{31}$ .

12. fields are attributes

13. `boolean`

Can have true or false as the value.

14. `{}`

These are used to start and end a function, class, etc.

15. `byte`

These can store from -127 - 128.

16. `long`

Can store numbers from  $2^{127}$  to  $2^{-127}$ .

17. `char`

Just lets you put in one character.

18. `double`

64-bit number with decimals.

19. `float`

32-bit number with decimals.

20. `protected`

Can only be accessed by other code in the package.

21. `Scanner`

This lets you get user input.

22. `new [object constructor]`

This will let you create a new object.

23. `System.in`

This lets you get data from the keyboard.

24. `public [class]()`

This will be the constructor, you use it to create new objects.

25. `super()`

This will create the superclass (the class it's inheriting).

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26. extends [class]

Makes the object a subclass of [object], [object] must be a superclass.

27. ++

Will increment the amount.

28. --

Will decrement the amount.

29. += [amount]

Increment by [amount]

30. -= [amount]

Decrement by [amount]

31. \*= [amount]

Multiply by [amount]

32. /= [amount]

Divide by [amount]

33.

System.out.println([text])

Will print something to the output console.

34. +

Can be used for concatenation. (ex. "6" + [var\_here])

35. public static void  
main(String[] args)

This is your main function and your project will start in here.

36. System.out.print([text])

This prints stuff but there is no line break. (/n)

37. \n

Called a line break; will print a new line.

38. \t

This will print a tab.

39. if ([condition])

This will make it so if [condition] is true then it'll keep going.

40. &&

This means and.

41. !

This means not.

42. ||

This means or.

43. ==

This means equal to.

44. <

This means less than.

45. >

This means greater than.

46. >=

This means greater than or equal to.

47.

[inputVarHere].hasNextLine()  
()

This will return if there is a next line in the input.

48. this

Refer to the class that you are in.

49. [caller].next[datatype]()

This will get the [datatype] that you somehow inputted.

50. Create getters and  
setters

This will create the get methods and set methods for every checked variable.

51.

[caller].hasNext[datatype]()

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This will return if it has the correct datatype within the input.

52. overloading

If you have different parameters you can call them whatever way you want.

53. parameters

These are the inputs of your function.

54. ([datatype])[variable]

This will convert [variable] into [datatype]. Also known as casting.

55. Math.random()

Generate an extremely precise string of numbers between 0 and 1.

56. Primitives

Just the basic data types which are not objects.

57. [x].toString()

Will convert [x] into a string.

58.

[number].parse[numbertype]([string])

This will parse [number] into the [numbertype] with [string].

59. ^

Return true if there is one true and one false.

60. !=

Not equal too. (NEQ)

61. ([condition]) ? [amount] : [var]

This will be like a shortcut way to an if statement.

62. switch([variable])

This will do stuff with specific cases. (e.g. switch(hi){ case 2: (do stuff)})

63. case [value]:

This will do stuff if the case is the case.

64. break

Put that when you want to leave the loop/switch; should be at end of case.

65. default [value]:

This will do stuff if none of the cases in the switch statement was made.

66. for ([number]; [condition]; [operation])

This will start at [number] and then do [operation] until [condition] is met.

67. continue

This will just go back to the enclosing loop before reaching other code.

68. while ([condition])

This will basically do something while [condition] is true.

69. void

This means no return type.

70. return

This will return something when you call it to where it was called from .

71. do { } while ([condition])

Guarantees it will execute once even if [condition] isn't met.

72. printf("%[type] stuff here bah bla", [variable here])

This will let you use [variable here] with %s being where.

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73. `System.out.printf([text])`

Another way to print? //  
didn't quite get but ok then

This will get how long  
something is, text, amount  
of indexes in array, etc.

74. `[type] [returntype]  
[name]([parameters]) {`

This is a way to create  
a method.

80. `Arrays.copyOf([array],  
indexes);`

This will copy the array and  
how many indexes into  
another array.

75. `[type][[indexes]]`

This will create an array  
with [indexes] amount of  
indexes; default infinite.

81. `Arrays.toString([array])`

Convert the whole array  
into one huge string.

76. `int[] something = new  
int[20];`

This will just make an array  
of ints with 20 ints in it.

82.  
`Arrays.binarySearch([array],  
[object])`

This will search for [object]  
in [array].

77. `for ([object]  
[nameOfObject] :  
[arrayOfObject]) {`

This will iterate through all  
of the arrayOfObject with  
object in use incrementing  
by 1 until done.

78. `[object][[1]][[2]][[3]]  
[name] = {[value] [value]  
[value] \n [value] [value]  
[value]}`

[1] is how many down in  
array, [2] how many  
across in array, [3] how  
many groups

79. `.length`