
Core Java Tutorial: Java Method Overloading



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Java Method Overloading

- **Method overloading** is achieved when two or more methods in the same class have the **same name** but with **different parameter lists**.
- That means methods with the same name must differ in their **types**, **number** and **sequence of parameters**.
- This allows the compiler to match parameters and choose the correct method when a number of choices exist. Changing just the return type is not enough to overload a method, and will be a compile-time error.
- At compile time, the right implementation is chosen based on the signature of the method call. So, it is an example of **compile time polymorphism**.
- Method overloading enhances the readability of the program code.

References

■ Book Resources:

- Herbert Schildt. *Java: The complete Reference*. Tata McGraw Hill (TMH), 9th Edition.
- Cay S. Horstmann, Gary Cornell. *Core Java Volume-I and Volume-II*. Pearson Education, 8th Edition.
- Kathy Sierra, Bert Bates. *Head First Java*. O'Reilly Media, 2nd Edition.
- E. Balagurusamy, *Programming with Java A Primer*. TMH, 3rd Edition.

■ URL Resources:

- <https://docs.oracle.com/javase/tutorial/java/package/index.html>
- <https://www.w3schools.com/java/default.asp>