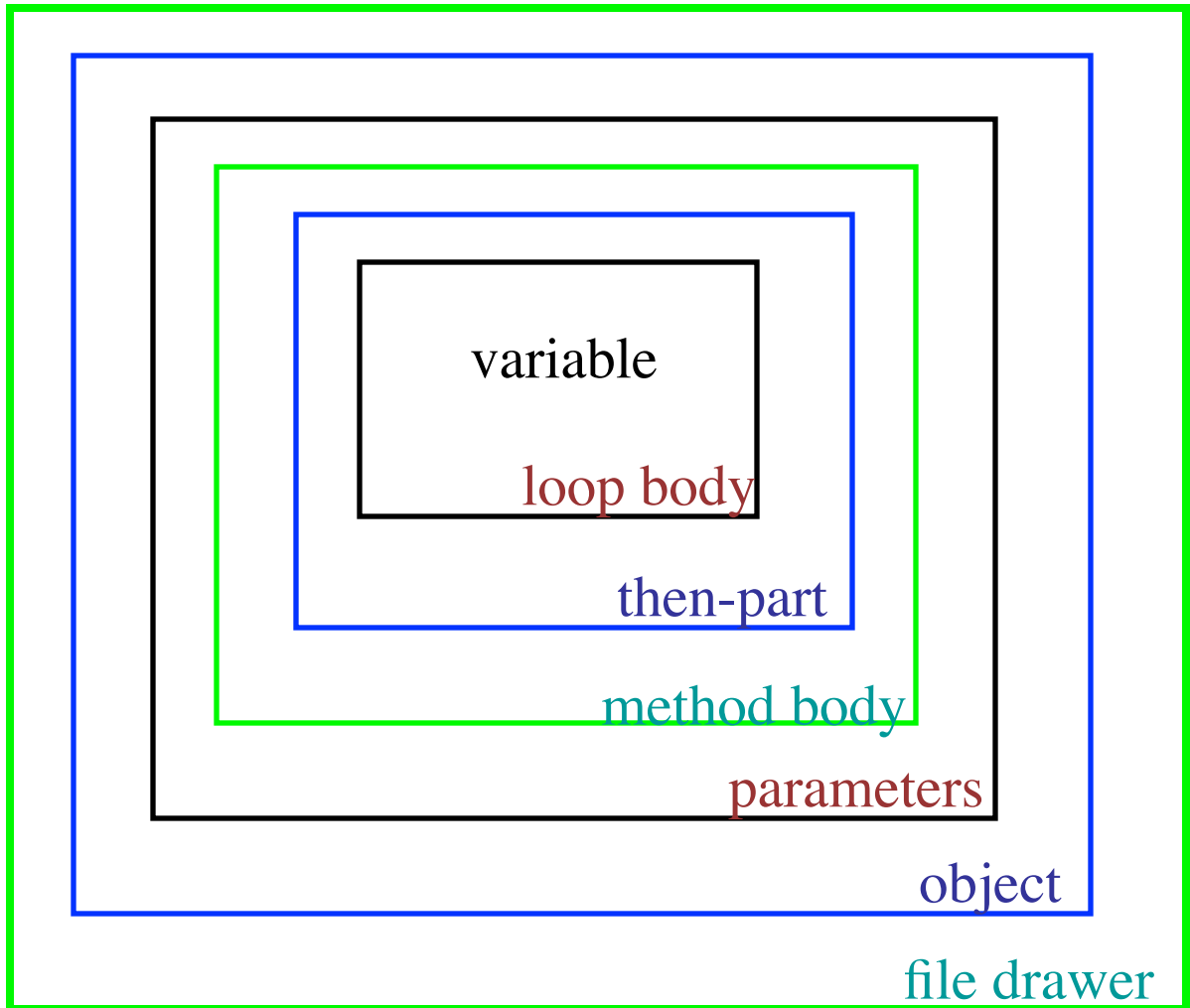


The inside-out rule



Inside-out rule:

To find the declaration corresponding to the use of a variable, look in enclosing scopes, from inside-out, until it is found.

If not found, the use of the variable is illegal and the program won't compile.

Inside-out rule for method calls

a0

title "peace"

prev null

Chapter

number 1

getTitle() ...

toString(String) { ... getTitle()... m(number) ... }

a1

title "truth"

prev a0

Chapter

number 2

getTitle() ...

toString(String) { ... getTitle()... m(number) ... }

m(int) { ... }

m(boolean) { ... m(1) ... }

Inside-out rule:

Search inside-out for a method with the appropriate signature.

When outside the scope ...

Chapter file drawer

a0

title

“peace”

prev

null

Chapter

number

1

getTitle() ...

toString(String) { ... getTitle()... m(number) ... }

m(int) { ... }

m(boolean) { ... m(1) ... }

C file drawer

a1

n

25

c1

a0

C

p(String) { ... c1.getTitle() ...
Chapter.m(n) ...
}