

Syntax element	
startPoint	a variable name
Transcript	a global variable
self, super, nil, true, true, false, thisContext	pseudo variable
1	decimal integer
2r101	binary integer
1.5	floating point number
2.4e7	number in exponential notation
\$a	the character 'a'
'Hello'	the string 'Hello'
#Hello	the symbol #Hello
#{1 2 3}	a literal array
{ 1 . 2 . 3 . 4 }	a dynamic array
"a comment"	comment
x y	declaration of variable x and y
x := 1	assign 1 to x
[:x x + 2]	a block that evaluates to x + 2
<primitive: 1>	a method annotation
3 factorial	unary message factorial
3 + 4	binary message +
2 raiseTo: 6 modulo: 10	keyword message raiseTo: modulo:
^ true	return the value true

Message precedence
Parentheses > Unary message > Binary message > Keyword message

Cascade
OrderedCollection new add: 1; add: 2;
Messages separated by semi-colon;

Conditionals
condition ifTrue: [block when condition is true] ifF else: [block when condition is false]

Loops	
(1 to: 10) do: [:i Transcript crShow: i].	Loop with block execution
arr collect: [:i i * 2].	Transform elements to get new collection
arr select: [:i i % 2 == 0].	Get only elements passed the test
arr detect: [:i i > 5] ifNone: [].	Find the first element passed the test
[x < 10] whileTrue: [x := x + 1].	Loop until test condition is passed

Array	
myArray at: 2	Get element by index
myArray add: 'E1'	Add element to array
myArray at: 5 put: 'E1'	Add element to index
myArray remove: 'E1'	Remove element at index
myArray copyFrom: 1 to: 2	Subcollection
myArray includes: 'E1'	Test if element in array

