

 免費電子書

學習

smalltalk

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1: smalltalk

smalltalk。

smalltalk。 Smalltalk。

Examples

SmalltalkANSI SmalltalkSmalltalk 80。 。

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FOSS

[Pharo](#)。 Windows / Linux / Mac OSX。 1

Windows / Linux / Mac OSX

[GNU Smalltalk](#) Windows / Linux / Mac OSX

[Dolphin Smalltalk](#)。 Windows

[Cuis Smalltalk](#) Squeak fork。

[VisualWorks / Cincom Smalltalk](#)。

[VisualAge Smalltalk](#)IBMInstatiations。

[Smalltalk / x](#)

[GemStone / s](#)。

Smalltalk

[Amber Smalltalk](#)Smalltalk。

[JVMRedline Smalltalk](#) Smalltalk。

[world.st](#)Smalltalk

SmalltalkHello World

```
Transcript show: 'Hello World!'.
```

Hello World! **Smalltalk** Transcript ◦ Transcriptshow: Transcript ◦ **Smalltalk** ◦

smalltalk <https://riptutorial.com/zh-TW/smalltalk/topic/5316/smalltalk>

2: Smalltalk

Examples

```
"Comments are enclosed in double quotes. BEWARE: This is NOT a string!"
"
They can span
multiple lines."
```

```
'Strings are enclosed in single quotes.'
'Single quotes are escaped with a single quote, like this: ''.'"
'''' "<--This string contains one single quote"

'Strings too can span
multiple lines'

'' "<--An empty string."
```

```
#thisIsaSymbol "Symbols are interned strings, used for method and variable names,
               and as values with fast equality checking."
#'hello world' "A symbol with a space in it"
#''           "An empty symbol, not very useful"
#+
#1           "Not the integer 1"
```

```
$a "Characters are not strings. They are preceded by a $."
$A "An uppercase character"
$  "The spacecharacter!"
$-> "An unicode character"
$1 "Not to be confused with the number 1"
```

- 10

-1

0

1000

- 16rAB1F

16r0

-16rFF

- ScaledDecimal

17s0

3.14159265s8

- 8r7731^{""}

2r1001^{""}

10r99987^{""}

```
3.14 1.2e3      "2 floating-point numbers"
```

◦

```
4/3             "The fraction 4/3"  
355/113        "A rational approximation to pi"
```

```
#{#abc 123}     "A literal array with the symbol #abc and the number 123"
```

```
#[1 2 3 4]     "separators are blank"  
#[ ]          "empty ByteArray"  
#[0 0 0 0 255] "length is arbitrary"
```

◦ ◦

```
{self foo. 3 + 2. i * 3} "A dynamic array built from 3 expressions"
```

```
[ :p | p asString ] "A code block with a parameter p.  
                    Blocks are the same as lambdas in other languages"
```

```
#{256 16rAB1F 3.14s2 2r1001 $A #this)  
"is the same as:"  
#{256  
 16rAB1F  
 3.14s2  
 2r1001  
 $A #this)
```

```
#[255 16rFF 8r377 2r11111111]      (four times 255)
```



```
#[[1 2 3] #'string' #symbol))      (arrays of arrays)
```

“”

```
 #(symbol) = #(#symbol)            (missing # => symbol)
```

```
 #'string' ($a 'a'))                (missing # => array)
```

```
 #([1 2 3]) ~= #([1 2 3])          (missing # => misinterpreted)
```

```
 #(true nil false)                  (pseudo variables ok)
```

```
 #(self) = #(#self)                 (missing # => symbol)
```

- true falsenilselfsuper ◦
- #(#(#[ByteArray ◦

<http://stackoverflow.com/a/37823203/4309858>

Smalltalk ◦

```
 #(1 2 3) size  
 "This sends the #size message to the #(1 2 3) array.  
 #size is a unary message, because it takes no arguments."
```

```
 1 + 2  
 "This sends the #+ message and 2 as an argument to the object 1.  
 #+ is a binary message because it takes one argument (2)  
 and it's composed of one or two symbol characters"
```

```
 'Smalltalk' allButFirst: 5.  
 "This sends #allButFirst: with argument 5 to the string 'Smalltalk',  
 resulting in the new string 'talk'"
```

```
 3 to: 10 by: 2.  
 "This one sends the single message #to:by:, which takes two parameters (10 and 2)  
 to the number 3.  
 The result is a collection with 3, 5, 7, and 9."
```

```
unary > binary > keyword
```

```
 1 + 2 * 3 " equals 9, because it evaluates left to right "  
 1 + (2 * 3) " but you can use parenthesis "
```

```
 1 to:   #(a b c d) size   by:   5 - 4  
 "is the same as:"  
 1 to: ( #(a b c d) size ) by: ( 5 - 4 )
```

;

```
OrderedCollection new
  add: #abc;
  add: #def;
  add: #ghi;
  yourself.
```

“#newOrderedCollection#new。 OrderedCollection。 #add。 “

Smalltalk IDE。

```
XMLTokenizer subclass: #XMLParser
  instanceVariableNames: ''
  classVariableNames: ''
  poolDictionaries: ''
  category: 'XML-Parser'
```

◦ #subclass:instanceVariableNames:classVariableNames:poolDictionaries:category: ,◦

XMLTokenizer#XMLParser。

◦

```
aKeywordMethodWith: firstArgument and: secondArgument
  "Do something with an argument and return the result."

  ^firstArgument doSomethingWith: secondArgument
```

^ ◦

```
** anInteger
  "Raise me to anInteger"
  | temp1 temp2 |

  temp1 := 1.
  temp2 := 1.
  1 to: anInteger do: [ :i | temp1 := temp1 * self + temp2 - i ].
  ^temp1
```

temporaries *temp1temp2 i* ◦

Smalltalk

OrderedCollectionOrderedCollection◦
newOrderedCollection add:4add:

```
anOrderedCollection := OrderedCollection new.
anOrderedCollection add: 1; add: 2; add: 3; add: 4.
```

◦

1. do:

◦

```
anOrderedCollection do[:each | Transcript show: each]. "Prints --> 1234"
```

```
:each do:Transcript◦
```

2. collect:

collect:

2collect:

```
evenCollection := anOrderedCollection collect[:each | each*2]. "#(2 4 6 8)"
```

3. select:

select:◦ select: **message**

```
oddCollection := anOrderedCollection select[:each | each odd].
```

```
each oddtrueoddCollection oddCollection#(1 3)◦
```

4. reject:

select:select:**Boolean**true◦ false◦ oddCollection◦ reject:

```
oddCollection := anOrderedCollection reject[:each | each even].
```

```
oddCollection#(1 3)◦
```

Smalltalk◦ Collections◦

Smalltalk <https://riptutorial.com/zh-TW/smalltalk/topic/5422/smalltalk>

S. No		Contributors
1	smalltalk	Bananeweizen , Community , fede s. , Leandro Caniglia , Stephan Eggermont , ybce
2	Smalltalk	aka.nice , fede s. , ybce