

S prehodom na novo verzijo se lahko pojavijo kakšne spremembe !

## SCILAB - tutorial.log

-->OKOLJE

-->a=5

a =  
  
5.

-->who

your variables are...

a	unix_s	pripravi	signalogram	preglej	atan1
home	PWD	TMPDIR	percentlib	fraclablib	
soundlib	xdesslib	utillib	tdcslib	siglib	s2flib
optlib	metalib	elemlib	commplib	polylib	autolib
alglib	mtlplib	WSCI	SCI	%F	%T
%s	%nan	%inf	old	newstacksize	\$
%t	%f	%eps	%io	%i	%e
					%pi

using 22116 elements out of 1000000.  
and 94 variables out of 1023

-->clear a

-1->a=10

a =  
  
10.

-->save('okolje')

-->clear

-->load('okolje')

-->who

your variables are...

a	unix_s	pripravi	signalogram	preglej	atan1
SOUND_RECORDER		startup	ierr	scicos_pal	MSDOS
home	PWD	TMPDIR	percentlib	fraclablib	
soundlib	xdesslib	utillib	tdcslib	siglib	s2flib
optlib	metalib	elemlib	commplib	polylib	autolib
alglib	mtlplib	WSCI	SCI	%F	%T
%s	%nan	%inf	old	newstacksize	\$
%t	%f	%eps	%io	%i	%e
					%pi

using 22116 elements out of 1000000.  
and 94 variables out of 1023

-->//Iskanje pomoči

-->apropos filter

S prehodom na novo verzijo se lahko pojavijo kakšne spremembe !

```
-->help size
```

```
-->//Konstante
```

```
-->%pi
```

```
%pi =
```

```
3.1415927
```

```
-->%e
```

```
%e =
```

```
2.7182818
```

```
-->%i
```

```
%i =
```

```
i
```

```
-->1+1*%i
```

```
ans =
```

```
1. + i
```

```
-->abs(ans)
```

```
ans =
```

```
1.4142136
```

```
-->//Osnovna sintaksa
```

```
-->a=5
```

```
a =
```

```
5.
```

```
-->A=10
```

```
A =
```

```
10.
```

```
-->a+A
```

```
ans =
```

```
15.
```

```
-->a+A;
```

```
-->c=[1 2];b=1.5
```

```
b =
```

```
1.5
```

```
-->c
```

```
c =
```

```
! 1. 2. !
```

```
-->a=...
```

```
-->5
```

S prehodom na novo verzijo se lahko pojavijo kakšne spremembe !

a =

5.

**-->/MATRIKE**

**-->1:10**

ans =

! 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. !

**-->20:-0.5:-1**

ans =

column 1 to 9

! 20. 19.5 19. 18.5 18. 17.5 17. 16.5 16. !

column 10 to 18

! 15.5 15. 14.5 14. 13.5 13. 12.5 12. 11.5 !

column 19 to 28

! 11. 10.5 10. 9.5 9. 8.5 8. 7.5 7. 6.5 !

column 29 to 38

! 6. 5.5 5. 4.5 4. 3.5 3. 2.5 2. 1.5 !

column 39 to 43

! 1. .5 0. - .5 - 1. !

**-->eye(4,4)**

ans =

! 1. 0. 0. 0. !  
! 0. 1. 0. 0. !  
! 0. 0. 1. 0. !  
! 0. 0. 0. 1. !

**-->w=rand(2,4)**

w =

! .8782165 .5608486 .7263507 .5442573 !  
! .0683740 .6623569 .1985144 .2320748 !

**-->w(:, :)**

ans =

! .8782165 .5608486 .7263507 .5442573 !  
! .0683740 .6623569 .1985144 .2320748 !

**-->w(:, 1:2)**

ans =

! .8782165 .5608486 !

S prehodom na novo verzijo se lahko pojavijo kakšne spremembe !

```
!      .0683740      .6623569 !
```

```
-->w(:, [1 1 3])
```

```
ans =
```

```
!      .8782165      .8782165      .7263507 !  
!      .0683740      .0683740      .1985144 !
```

```
-->w($, [1 1 3])
```

```
ans =
```

```
!      .0683740      .0683740      .1985144 !
```

```
-->r=rand(1,10)
```

```
r =
```

```
column 1 to 5
```

```
!      .2312237      .2164633      .8833888      .6525135      .3076091 !
```

```
column 6 to 10
```

```
!      .9329616      .2146008      .312642      .3616361      .2922267 !
```

```
-->r+2
```

```
ans =
```

```
column 1 to 5
```

```
!      2.2312237      2.2164633      2.8833888      2.6525135      2.3076091 !
```

```
column 6 to 10
```

```
!      2.9329616      2.2146008      2.312642      2.3616361      2.2922267 !
```

```
-->r.*rand(1,10)
```

```
ans =
```

```
column 1 to 5
```

```
!      .1309709      .1044754      .2934369      .3872729      .1542765 !
```

```
column 6 to 10
```

```
!      .4075725      .0577947      .1977694      .1465333      .2684017 !
```

```
-->cos ([1 0.5 2])
```

```
ans =
```

```
!      .5403023      .8775826 - .4161468 !
```

```
-->cos(w)
```

```
ans =
```

```
!      .6385248      .8468040      .7476031      .8555121 !  
!      .9976634      .7885450      .9803606      .9731913 !
```

```
-->//Polinomi
```

S prehodom na novo verzijo se lahko pojavijo kakšne spremembe !

```
-->z=poly(0,'z')
```

z =

z

```
-->p=poly([1 2 3],'z')
```

p =

$-6 + 11z - 6z^2 + z^3$

```
-->roots(p)
```

ans =

! 1. !

! 2. !

! 3. !

```
-->p1=poly([1 2 3],'z','c')
```

p1 =

$1 + 2z + 3z^2$

```
-->roots(p1)
```

ans =

! - .33333333 + .4714045i !

! - .33333333 - .4714045i !

```
-->horner (p,[1 2 3])
```

ans =

! 0. 0. 0. !

```
-->//Logika
```

```
-->1==2
```

ans =

F

```
-->1==1
```

ans =

T

```
-->1==1 & 2==2
```

ans =

T

```
-->1==1 & 2==3
```

ans =

F

```
-->1==1 | 2==3
```

ans =

S prehodom na novo verzijo se lahko pojavijo kakšne spremembe !

T

```
-->a=(1:5);a(a>2)
```

ans =

! 3. 4. 5. !

```
-->SEZNAMI (list, tlist)
```

```
-->L=list(1, 'w', rand(2,3))
```

L =

L(1)

1.

L(2)

w

L(3)

! .0437334 .2639556 .2806498 !  
! .4818509 .4148104 .1280058 !

```
-->L(3)(2,2)
```

ans =

.4148104

```
-->PROGRAMIRANJE - zanke
```

```
-->for i=1:3,i,end
```

i =

1.

i =

2.

i =

3.

```
-->for i=[-30 0 15],i,end
```

i =

- 30.

i =

0.

i =

15.

```
-->for i=L,disp(i),end
```

S prehodom na novo verzijo se lahko pojavijo kakšne spremembe !

1.

w

```
!      .0437334      .2639556      .2806498 !  
!      .4818509      .4148104      .1280058 !
```

## -->PROGRAMIRANJE - funkcije

// Primer funkcije v datoteki vsota.sci

-->vsota(10,20)

ans =

30.

## -->GRAFIKA

-->plot2d ()

Demo of plot2d

```
x=0:0.1:2*pi, plot2d([x;x;x]',[sin(x);sin(2*x);sin(3*x)]',[-1,-  
2,3],'151','L1@L2@L3',[0,-2,2*pi,2]);
```

-->xdel(winsid())

//winsid .. vrne številke vseh oken, xdel jih zbriše