

```
0 #
1 #
2 #
3 #
4 #
5 #
6 #
```

SX.sym

```
11 from casadi import *
```

Construct using a single name

The names of the entries of the SX will be derived from the name provided as argument to SX.sym.

Without shape arguments, a 1-by-1 matrix is constructed:

```
19
20 x = SX.sym("x")
21 print type(x), x
```

```
<class 'casadi.casadi.SX'> x
```

Create a column matrix

```
23 print SX.sym("x", 2, 1)
```

```
[x_0, x_1]
```

Create a row matrix

```
26 print SX.sym("x", 1, 2)
```

```
[[x_0, x_1]]
```

Create a matrix

```
29 print SX.sym("x", 2, 3)
```

```
[[x_0, x_2, x_4],
 [x_1, x_3, x_5]]
```