

ssym

September 30, 2024

This file is part of CasADi.

CasADi -- A symbolic framework for dynamic optimization.
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1 SX.sym

```
[1]: from casadi import *
```

2 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:

```
[2]: x = SX.sym("x")  
print(type(x), x)
```

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

Create a column matrix

```
[3]: print(SX.sym("x",2,1))
```

[x_0, x_1]

Create a row matrix

```
[4]: print(SX.sym("x",1,2))
```

[[x_0, x_1]]

Create a matrix

```
[5]: print(SX.sym("x",2,3))
```

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