## n nodes

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This file is part of CasADi.

CasADi -- A symbolic framework for dynamic optimization.

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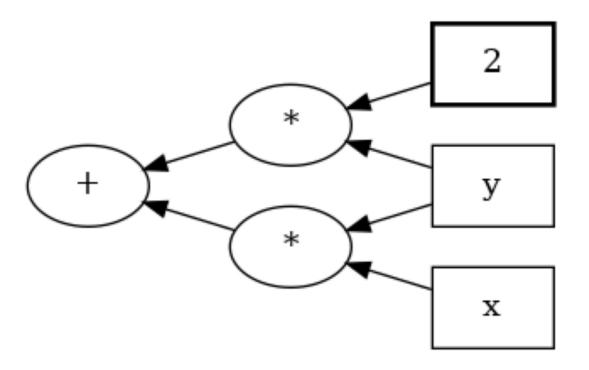
## 1 n nodes

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

Let's build a trivial symbolic SX graph

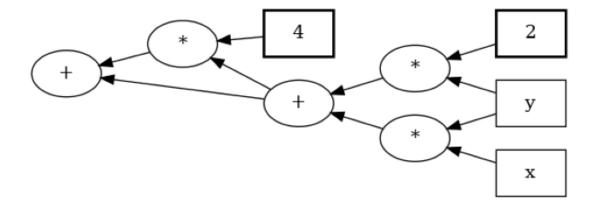
```
[2]: x = SX.sym("x")
y = SX.sym("y")
z = x*y+2*y
print(n_nodes(z), " nodes in ", z)
dotdraw(z)
```

6 nodes in ((x\*y)+(2\*y))



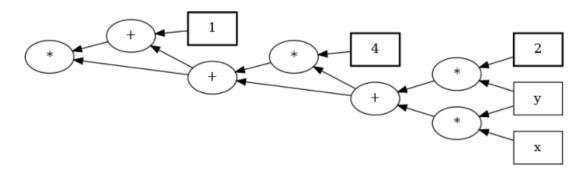
```
[3]: z += 4*z print(n_nodes(z), " nodes in ", z) dotdraw(z)
```

9 nodes in @1=((x\*y)+(2\*y)), (@1+(4\*@1))



```
[4]: z *= z+1
print(n_nodes(z), " nodes in ", z)
dotdraw(z)
```

12 nodes in @1=((x\*y)+(2\*y)), @2=(@1+(4\*@1)), (@2\*(@2+1))



[]:[