sparsity_jac

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  from casadi import *
    from numpy import *
    import casadi as c
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   from pylab import spy, show
       We construct a simple SX expression
  x = SX.sym("x", 40)
  y = x[:-2]-2*x[1:-1]+x[2:]
       Let's see what the first 5 entries of y look like
   print y[:5]
      @1=2, [((x_0-(@1*x_1))+x_2), ((x_1-(@1*x_2))+x_3), ((x_2-(@1*x_3))+x_4),
           ((x_3-(@1*x_4))+x_5), ((x_4-(@1*x_5))+x_6)]
       Next, we construct a function
  f = Function("f", [x],[y])
       And we visualize the sparsity of the jacobian
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    spy(f.sparsity_jac())
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    show()
```

