

Playing_with_Autograd

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Nicholas Paisley

```
[1]: import autograd.numpy as np
      from autograd import grad
      import matplotlib.pyplot as plt
```

```
[2]: # Playing with autograd

      def model(x): #creating definition named "model"
          return 10.0*x+5.0 #returns the functionm 10x + 5

      d_by_dx = grad(model) #finds the gradient/derivative of the "model" function

      x0 = 5.0 #The point x=5

      print(x0)

      print(d_by_dx(x0)) #Uses the point x=5 on the gradient/derivative of the model_
      ↪function (y'(x0) = 10)
```

```
5.0
10.0
```