

name: "LeNet"

layer {

name: "mnist"

type: "Data"

top: "data"

top: "label"

include {

phase: TRAIN

}

transform_param {

scale: 0.00390625

}

data_param {

source: "examples/mnist/mnist_train_lmdb"

batch_size: 64

backend: LMDB

}

}

layer {

name: "mnist"

type: "Data"

```
top: "data"
top: "label"
include {
    phase: TEST
}
transform_param {
    scale: 0.00390625
}
data_param {
    source: "examples/mnist/mnist_test_lmdb"
    batch_size: 100
    backend: LMDB
}
}
```

```
layer {
    name: "conv1"
    type: "Convolution"
    bottom: "data"
    top: "conv1"
    param {
        lr_mult: 1
    }
}
```

```
}  
param {  
    lr_mult: 2  
}  
convolution_param {  
    num_output: 20  
    kernel_size: 5  
    stride: 1  
    weight_filler {  
        type: "xavier"  
    }  
    bias_filler {  
        type: "constant"  
    }  
}  
}
```

```
layer {  
    name: "pool1"  
    type: "Pooling"  
    bottom: "conv1"  
    top: "pool1"
```

```
pooling_param {  
  pool: MAX  
  kernel_size: 2  
  stride: 2  
}  
}
```

```
layer {  
  name: "ip1"  
  type: "InnerProduct"  
  bottom: "pool2"  
  top: "ip1"  
  param {  
    lr_mult: 1  
  }  
  param {  
    lr_mult: 2  
  }  
  inner_product_param {  
    num_output: 500  
    weight_filler {  
      type: "xavier"  
    }  
  }  
}
```

```
    }  
    bias_filler {  
        type: "constant"  
    }  
}  
}
```

```
layer {  
    name: "relu1"  
    type: "ReLU"  
    bottom: "ip1"  
    top: "ip1"  
}
```

```
layer {  
    name: "accuracy"  
    type: "Accuracy"  
    bottom: "ip2"  
    bottom: "label"  
    top: "accuracy"  
    include {  
        phase: TEST  
    }  
}
```

```
    }  
  }  
  layer {  
    name: "loss"  
    type: "SoftmaxWithLoss"  
    bottom: "ip2"  
    bottom: "label"  
    top: "loss"  
  }
```