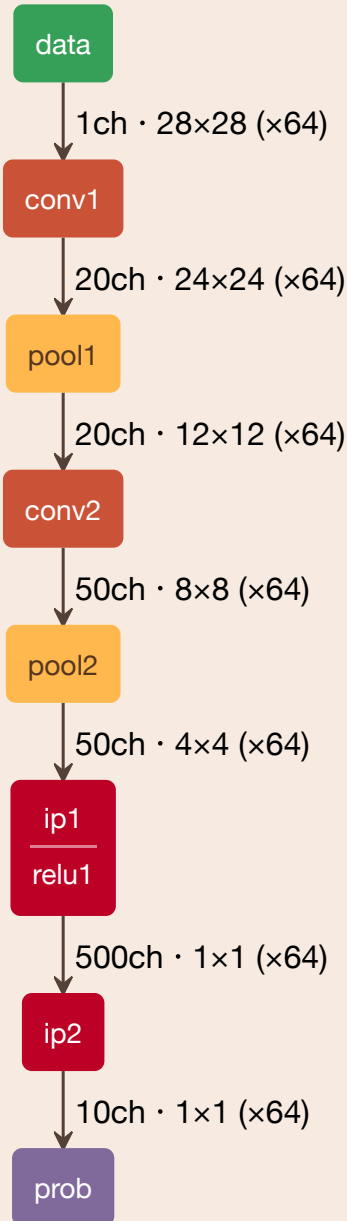


# LeNet (edit)

```
1 name: "LeNet"
2 layer {
3   name: "data"
4   type:
5     "Input"
6   top: "data"
7   input_param
8   { shape: {
9     dim: 64 dim: 1
10    dim: 28 dim:
11    28 } }
12 }
13 layer {
14   name:
15     "conv1"
16   type:
17     "Convolution"
18   bottom:
19     "data"
20   top: "conv1"
21   param {
22     lr_mult: 1
23   }
24   param {
25     lr_mult: 2
26   }
27 }
28 convolution_param {
29   num_output: 20
30   kernel_size: 5
31   stride: 1
32 }
33 weight_filler {
34   type:
35     "xavier"
36 }
37 bias_filler {
38   type:
39     "constant"
40 }
41 }
42 layer {
```



```

32     name:
33     "pool1"
34     type:
35     "Pooling"
36     bottom:
37     "conv1"
38     top: "pool1"
39
40     pooling_param
41     {
42         pool: MAX
43     }
44
45     kernel_size: 2
46     stride: 2
47 }
48
49 layer {
50     name:
51     "conv2"
52     type:
53     "Convolution"
54     bottom:
55     "pool1"
56     top: "conv2"
57     param {
58         lr_mult: 1
59     }
60     param {
61         lr_mult: 2
62     }
63
64     convolution_param {
65
66         num_output: 50
67
68         kernel_size: 5
69         stride: 1
70
71         weight_filler
72         {
73             type:
74             "xavier"
75         }
76
77         bias_filler {
78             type:
79             "constant"
80         }

```

# Network Analysis

Summary:

63	}						
64	}	ID	name	type	batch	ch_in	dim_in
65	layer {						
66	name:	1	data	Input		1	28x28
67	"pool2"						
67	type:	2	conv1	Convolution		1	28x28
68	"Pooling"						
68	bottom:						
68	"conv2"						
69	top: "pool2"						
70	pooling_param	3	pool1	Pooling		20	24x24
71	{						
71	pool: MAX	4	conv2	Convolution		20	12x12
72	kernel_size: 2						
73	stride: 2						
74	}	5	pool2	Pooling		50	8x8
75	}						
76	layer {						
77	name: "ip1"	6	ip1	InnerProduct		50	4x4
78	type:						
78	"InnerProduct"						
79	bottom:						
79	"pool2"	7	relu1	ReLU		500	1x1
80	top: "ip1"						
81	param {						
82	lr_mult: 1	8	ip2	InnerProduct		500	1x1
83	}						
84	param {						
85	lr_mult: 2						
86	}	9	prob	Softmax		10	1x1
87	inner_product_param						
88	{						
88	num_output:						
88	500						
89	weight_filler	TOTAL					
89	{						
90	type:						
90	"xavier"						
91	}						
92	bias_filler {						
93	type:						
93	"constant"						
94	}						

95	}	Details:					
96	}						
97	layer {						
98	name:						
	"relu1"	ID	name	type	batch	ch_in	dim_in
99	type: "ReLU"	1	data	Input	64	1	28x28
100	bottom:						
	"ip1"						
101	top: "ip1"						
102	}						
103	layer {						
104	name: "ip2"						
105	type:						
	"InnerProduct"						
106	bottom:						
	"ip1"	2	conv1	Convolution	64	1	28x28
107	top: "ip2"						
108	param {						
109	lr_mult: 1						
110	}						
111	param {						
112	lr_mult: 2						
113	}						
114	inner_product_						
	param {	3	pool1	Pooling	64	20	24x24
115	num_output: 10						
116	weight_filler						
	{						
117	type:						
	"xavier"						
118	}						
119	bias_filler {						
	type:	4	conv2	Convolution	64	20	12x12
120	"constant"						
121	}						
122	}						
123	}						
124	layer {						
125	name: "prob"						
126	type:						
	"Softmax"						
127	bottom:	5	pool2	Pooling	64	50	8x8
	"ip2"						
128	top: "prob"						
129	}	ID	name	type	batch	ch_in	dim_in

6	ip1	InnerProduct	64	50	4x4
7	relu1	ReLU	64	500	1x1
8	ip2	InnerProduct	64	500	1x1
9	prob	Softmax	64	10	1x1