

LAYER-2: Images selected based on max pixel activation + with best patches

PATCH mode

./simple_results/layer2Conv2D0

COLUMNS: 0..64 featuremaps independently; last column: all layers

ROWS: 0-9: Orig images best activating the featuremap. 10-19: activation pattern. 20-29: deconv visualization in input pixel space

502302064365485338682353850950328935268658329	002822832365988948649333830255399855368633503	002822024063258343643253860055328032063203296	002802434263580838823353850427389335068003358	002240987560280328642253830550558355368655328	502220832265419325892353830455329235360953326	00282189952388870367535065085258803026368301	102869808095439838645235650589364335265483328	0028C0462262596382805398650209209335368405273	40380846486348034584337385459495632288033256
502302064365485338682353850950328935268658329	002822832365988948649333830255399855368633503	002822024063258343643253860055328032063203296	002802434263580838823353850427389335068003358	0022409875602803286422538302805505538355368655328	5022208322654193258923538280455329235360953326	00282189952388870367535065085258803026368301	102869808095439838645235650589364335265483328	0028C0462262596382805398650209209335368405273	40380846486348034584337385459495632288033256
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35202583604938027857	85846588204388030822	75732933502833055631	25346555836888455630	356068934089884999934	18332292104372039871	25756909606383658824	95702593702538059299	652062836048554399335	95206989606682630529
502302064365485338682353850950328935268658329	002822832365988948649333830255399855368633503	002822024063258343643253860055328032063203296	002802434263580838823353850427389335068003358	0022409875602803286422538302805505538355368655328	5022208322654193258923538280455329235360953326	00282189952388870367535065085258803026368301	102869808095439838645235650589364335265483328	0028C0462262596382805398650209209335368405273	40380846486348034584337385459495632288033256
35202583604938027857	85846588204388030822	75732933502833055631	25346555836888455630	356068934089884999934	18332292104372039871	25756909606383658824	95702593702538059299	652062836048554399335	95206989606682630529
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35202583604938027857	85846588204388030822	75732933502833055631	25346555836888455630	356068934089884999934	18332292104372039871	25756909606383658824	95702593702538059299	652062836048554399335	95206989606682630529

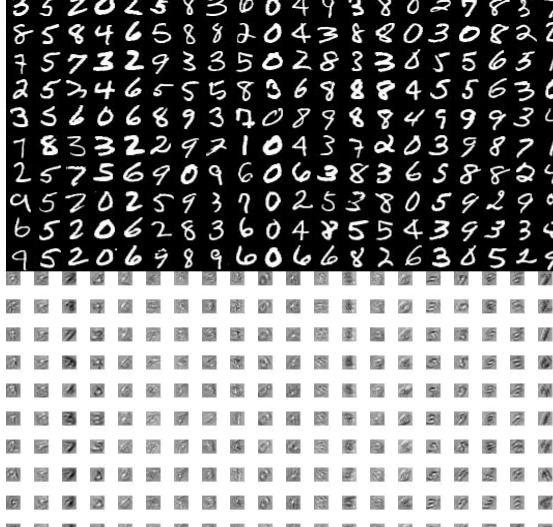
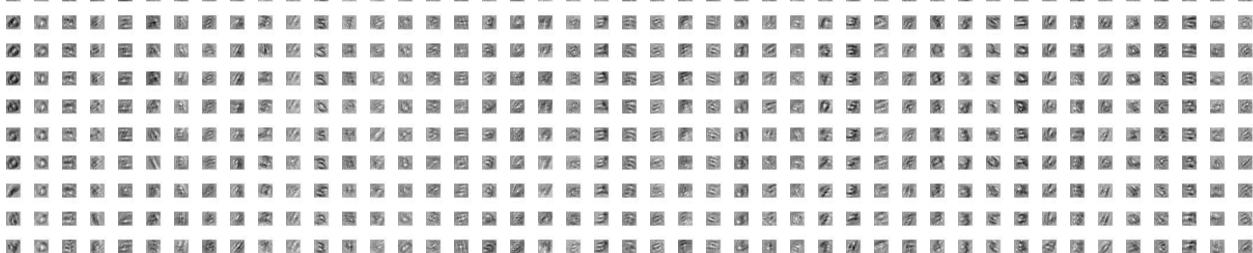
FULL mode (not zooming to the best patch)

./simple_results/layer2Conv2D0

COLUMNS: 0..64 featuremaps independently; last column: all layers

ROWS: 0-9: Orig images best activating the featuremap. 10-19: activation pattern. 20-29: deconv visualization in input pixel space

502302064365485338682853850950328835268658329
002822832365988948649333830255399855368633503
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002821899523888703675350650852588030263668304
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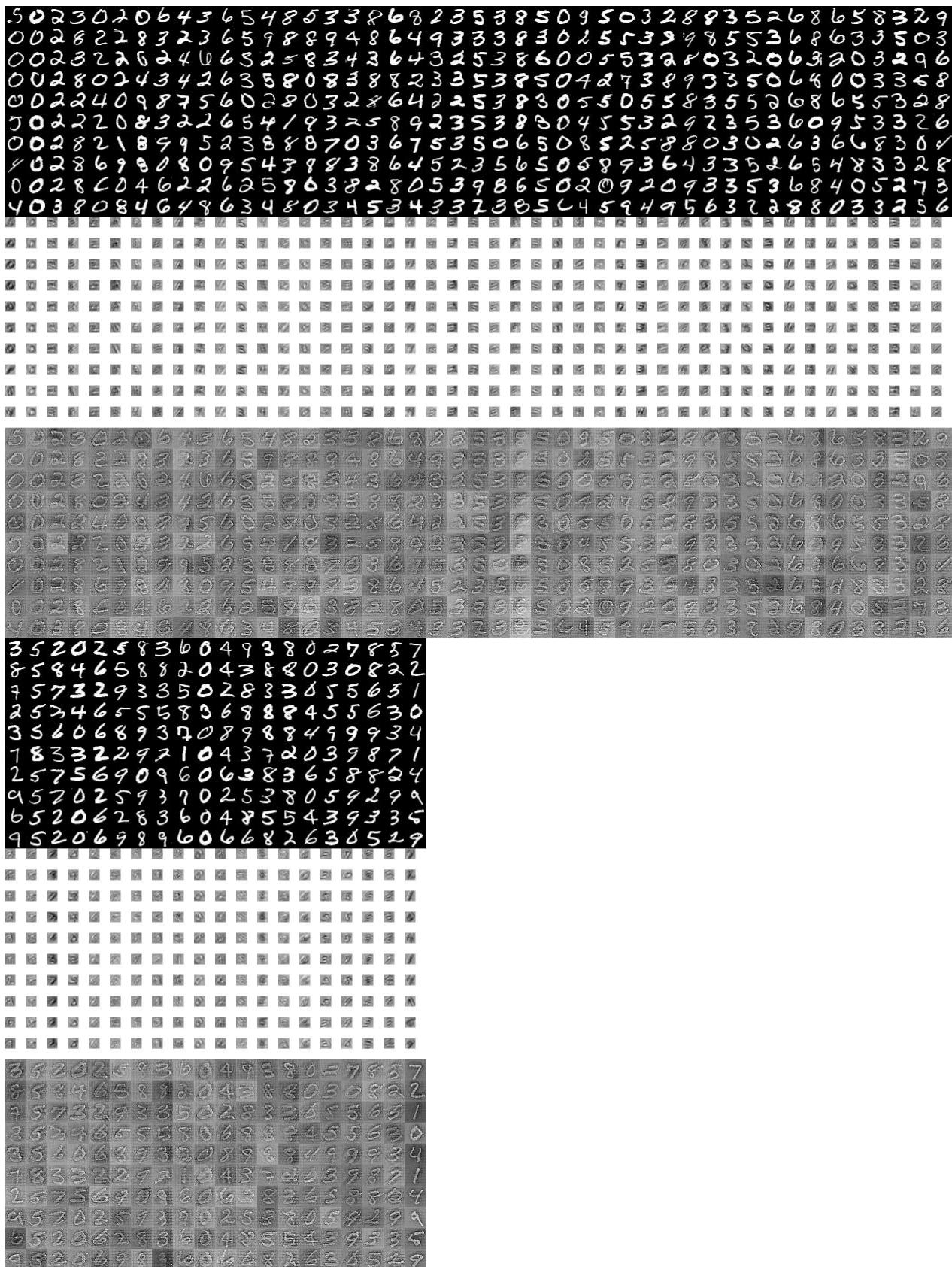
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4	5	7	3	2	9	3	3	5	0	2	8	3	0	4	5	5	6	5	1
3	5	7	4	6	5	5	5	8	0	6	9	8	2	4	5	5	6	3	0
3	8	4	0	6	8	9	3	0	0	8	7	3	8	4	9	9	7	3	4
1	8	3	3	2	2	9	2	1	0	4	3	7	2	0	3	9	8	7	1
2	5	7	3	6	9	0	9	6	0	6	3	8	3	6	5	8	8	2	4
9	5	7	0	2	5	7	3	0	2	5	8	3	8	0	6	9	2	9	9
6	5	2	0	3	2	8	3	1	6	0	4	5	5	5	4	3	9	5	3
9	5	2	0	4	7	9	9	6	0	6	4	8	3	6	5	4	5	4	2

PATCH mode

./simple_results/layer2BiasAdd0

./simple_results/layer2BiasAdd0

ROWS: 0-9: Orig images best activating the featuremap 10-19: activation pattern 20-29: deconv visualization in input pixel space

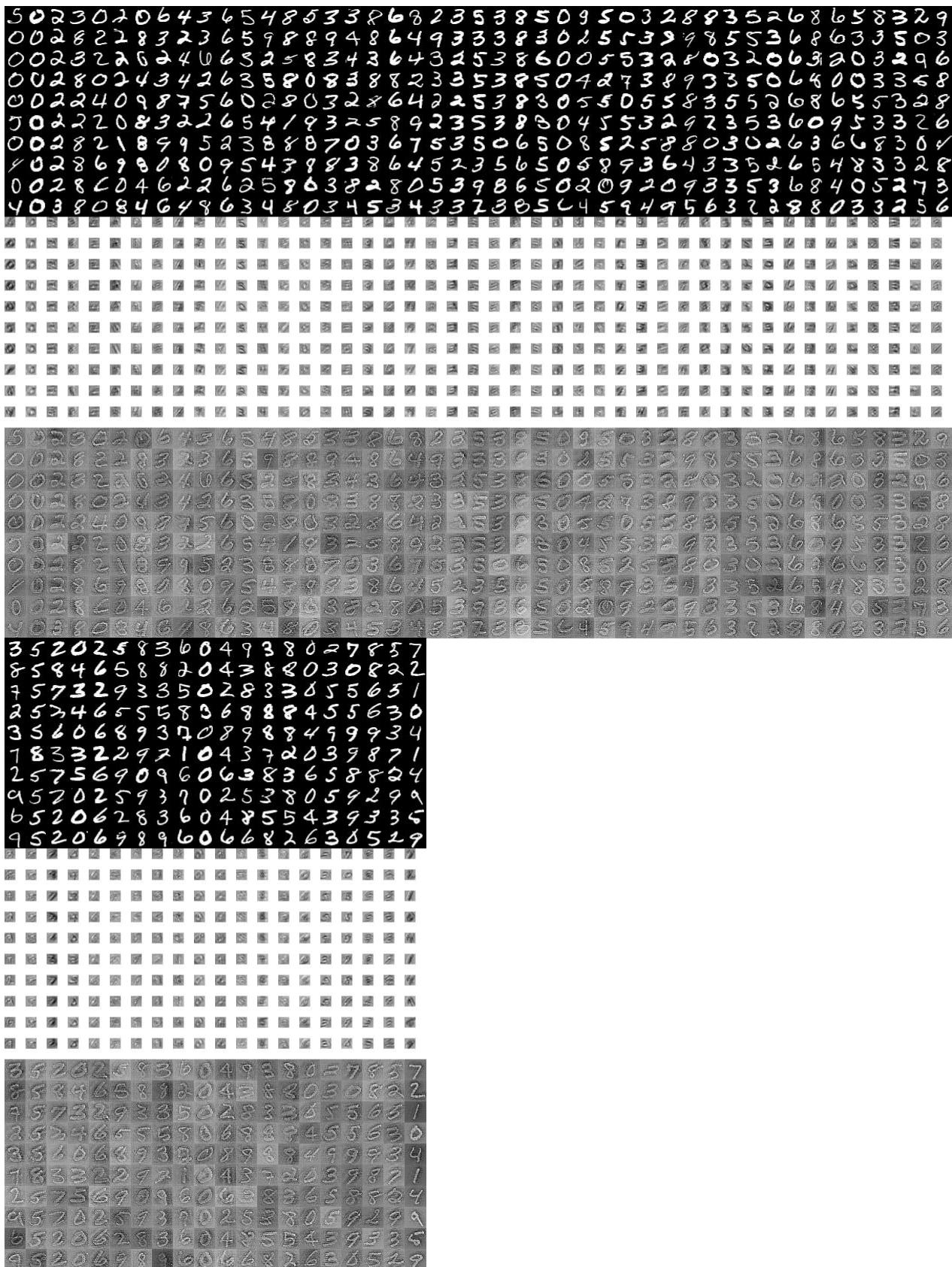


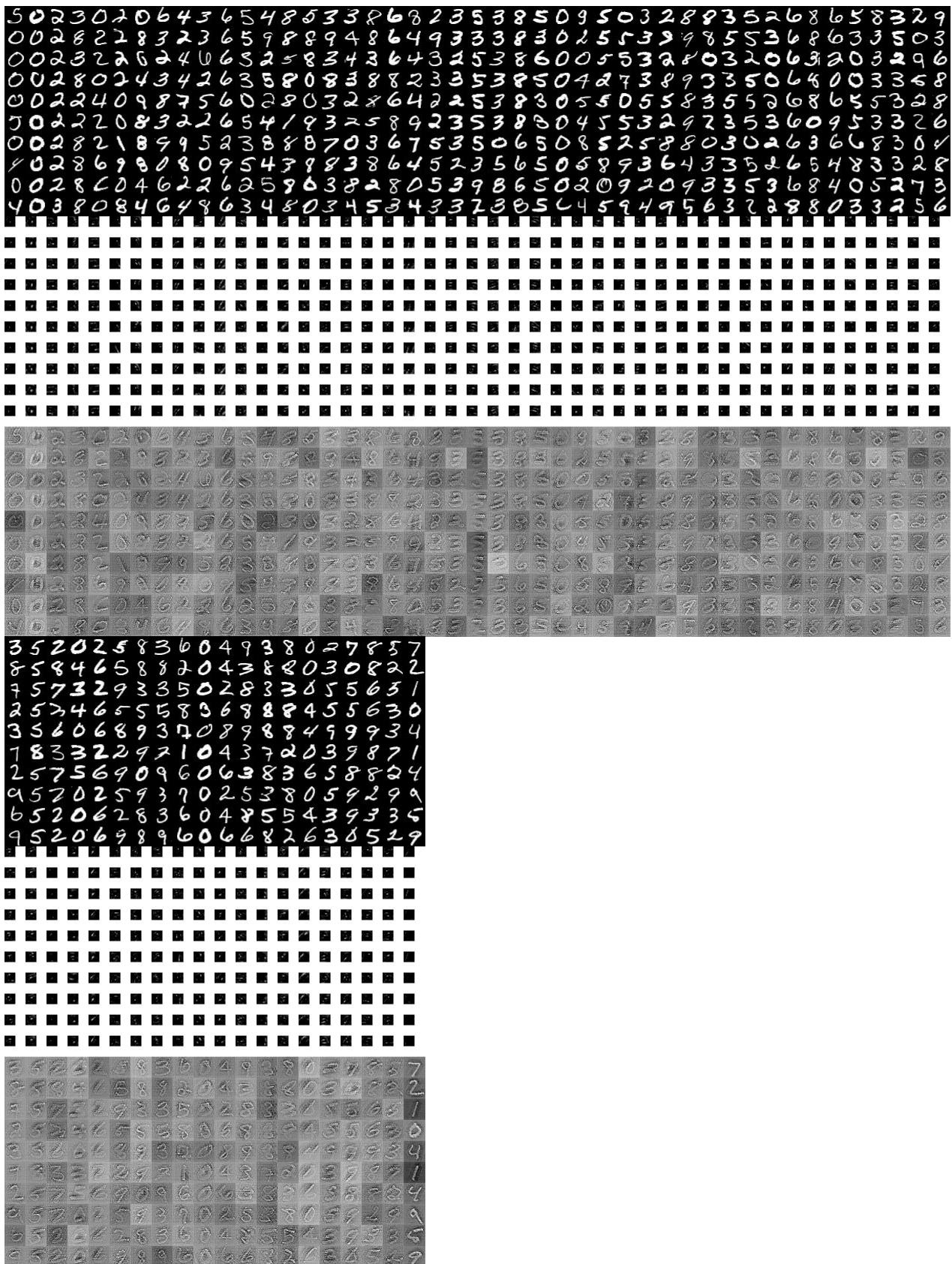
FULL mode (not zooming to the best patch)

./simple_results/layer2BiasAdd0

COLUMNS: 0..64 featuremaps independently; last column: all layers

ROWS: 0-9: Orig images best activating the featuremap. 10-19: activation pattern. 20-29: deconv visualization in input pixel space



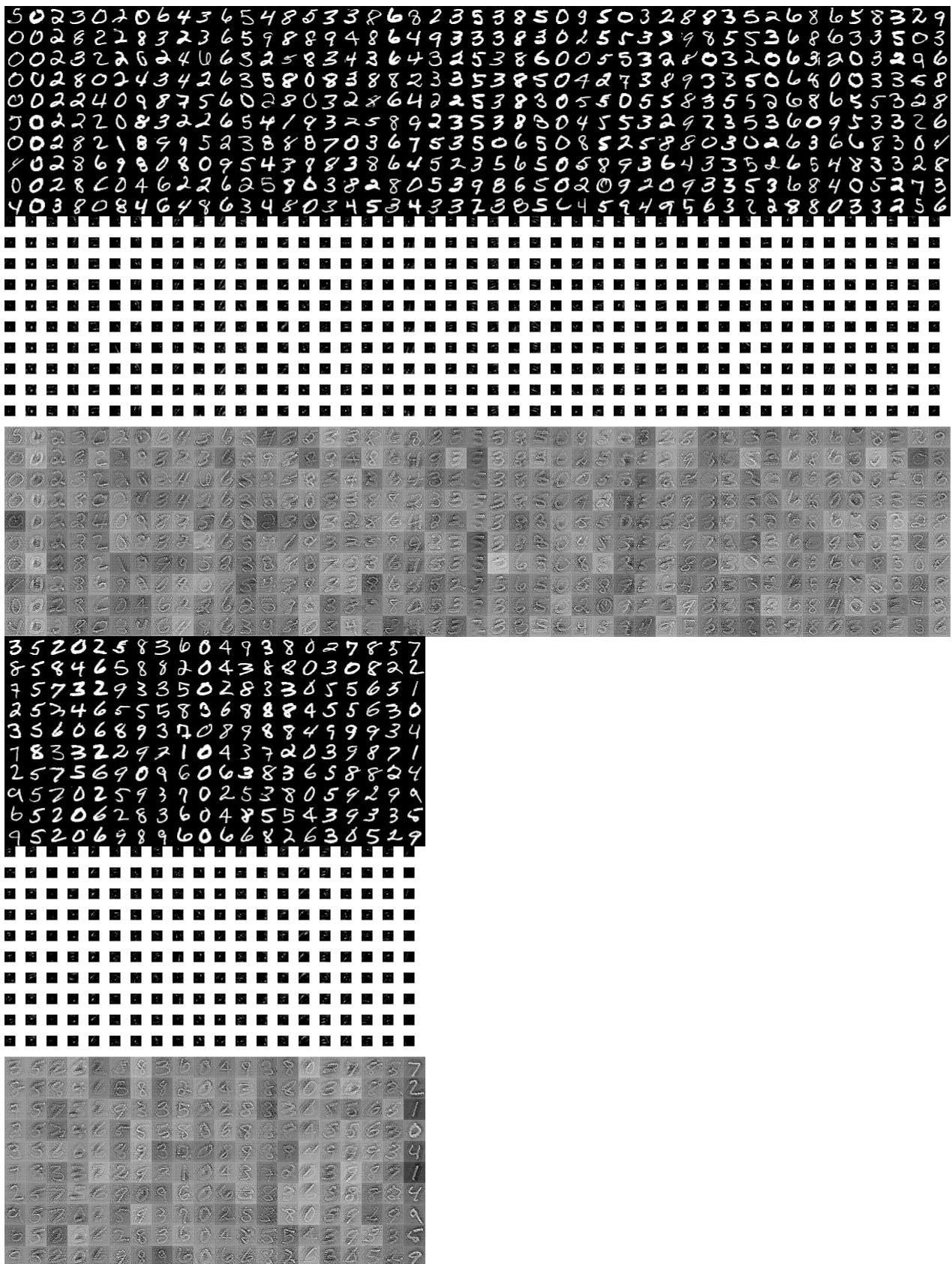


FULL mode (not zooming to the best patch)

./simple_results/layer2Relu0

COLUMNS: 0..64 featuremaps independently; last column: all layers

ROWS: 0-9: Orig images best activating the featuremap. 10-19: activation pattern. 20-29: deconv visualization in input pixel space



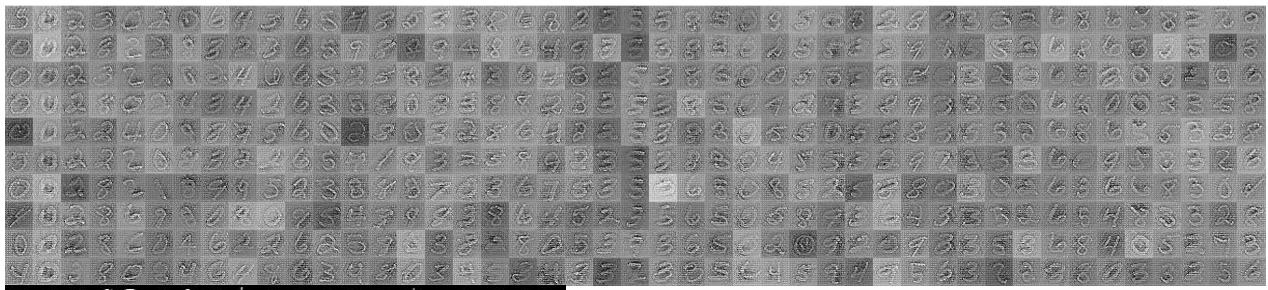
PATCH mode

./simple_results/layer2Pool2DMaxPool0

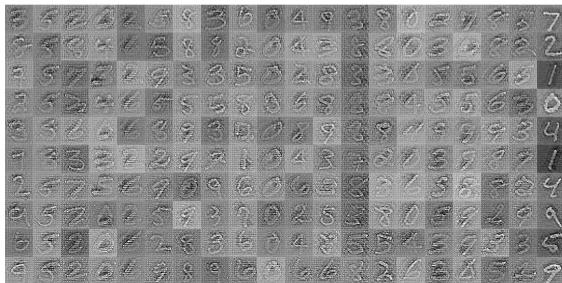
COLUMNS: 0..64 featuremaps independently; last column: all layers

ROWS: 0-9: Orig images best activating the featuremap. 10-19: activation pattern. 20-29: deconv visualization in input pixel space

502302064365485338682353850950328835268658329
 002822832365988948649333830255329855368633503
 002322624063258343643253860055328032063203296
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 002240987560280328642253830550558355268655328
 502220832265419325892353830455329735360953326
 002821899523888703675350650852588030263668304
 102869808095439838645235650589364335265483328
 002860462262580382805398650209209335368405273
 40380846486348034584332385459495632288033256



35202583604938027857
 85846588204388030822
 75732933502833855631
 25346555836888455630
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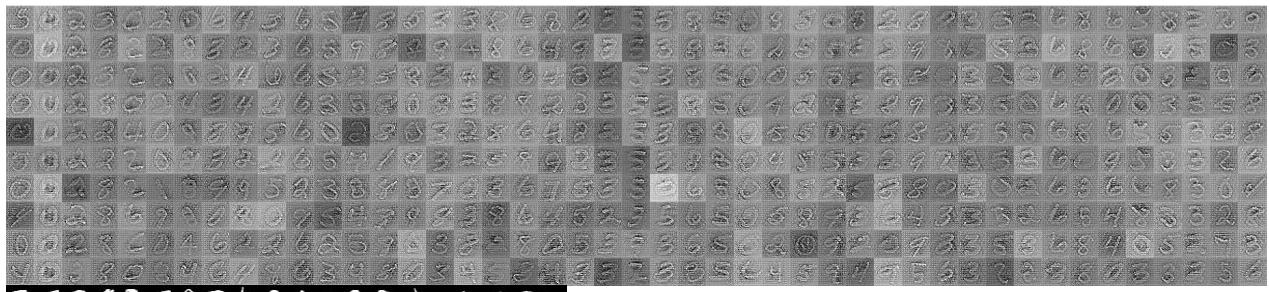
FULL mode (not zooming to the best patch)

./simple_results/layer2Pool2DMaxPool0

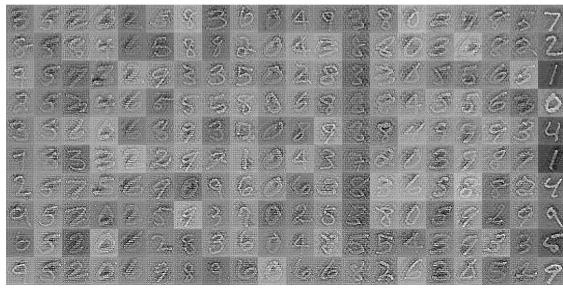
COLUMNS: 0..64 featuremaps independently; last column: all layers

ROWS: 0-9: Orig images best activating the featuremap. 10-19: activation pattern. 20-29: deconv visualization in input pixel space

502302064365485338682353850950328835268658329
 002822832365988948649333830255329855368633503
 002322624063258343643253860055328032063203296
 002802434263580838823353850427389335064003368
 002240987560280328642253830550558355268655328
 502220832265419325892353830455329735360953326
 002821899523888703675350650852588030263668304
 102869808095439838645235650589364335265483328
 002860462262580382805398650209209335368405273
 40380846486348034584332385459495632288033256



35202583604938027857
 85846588204388030822
 75732933502833855631
 25346555836888455630
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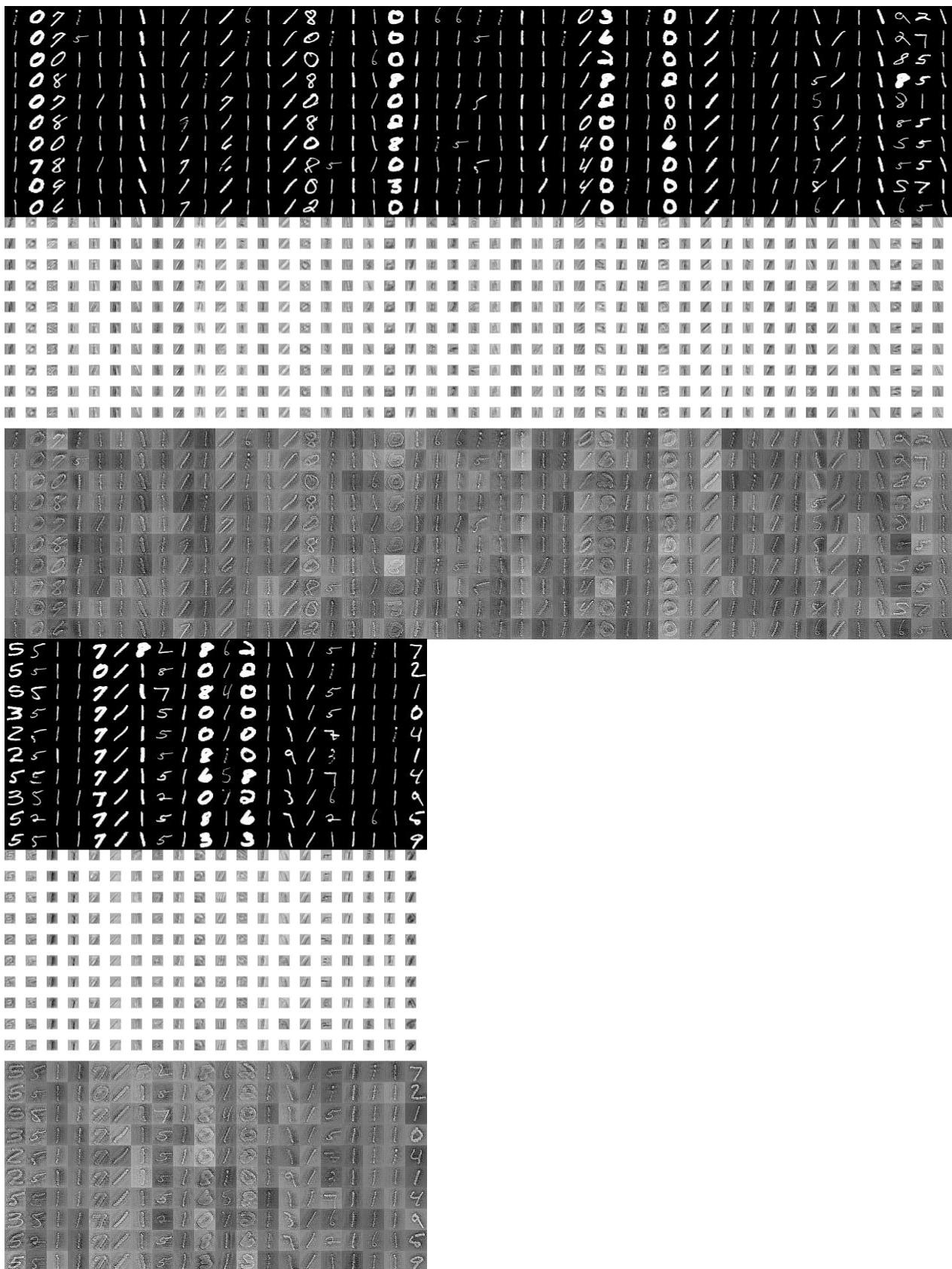
LAYER-2: Images selected based on avg activation + with best patches

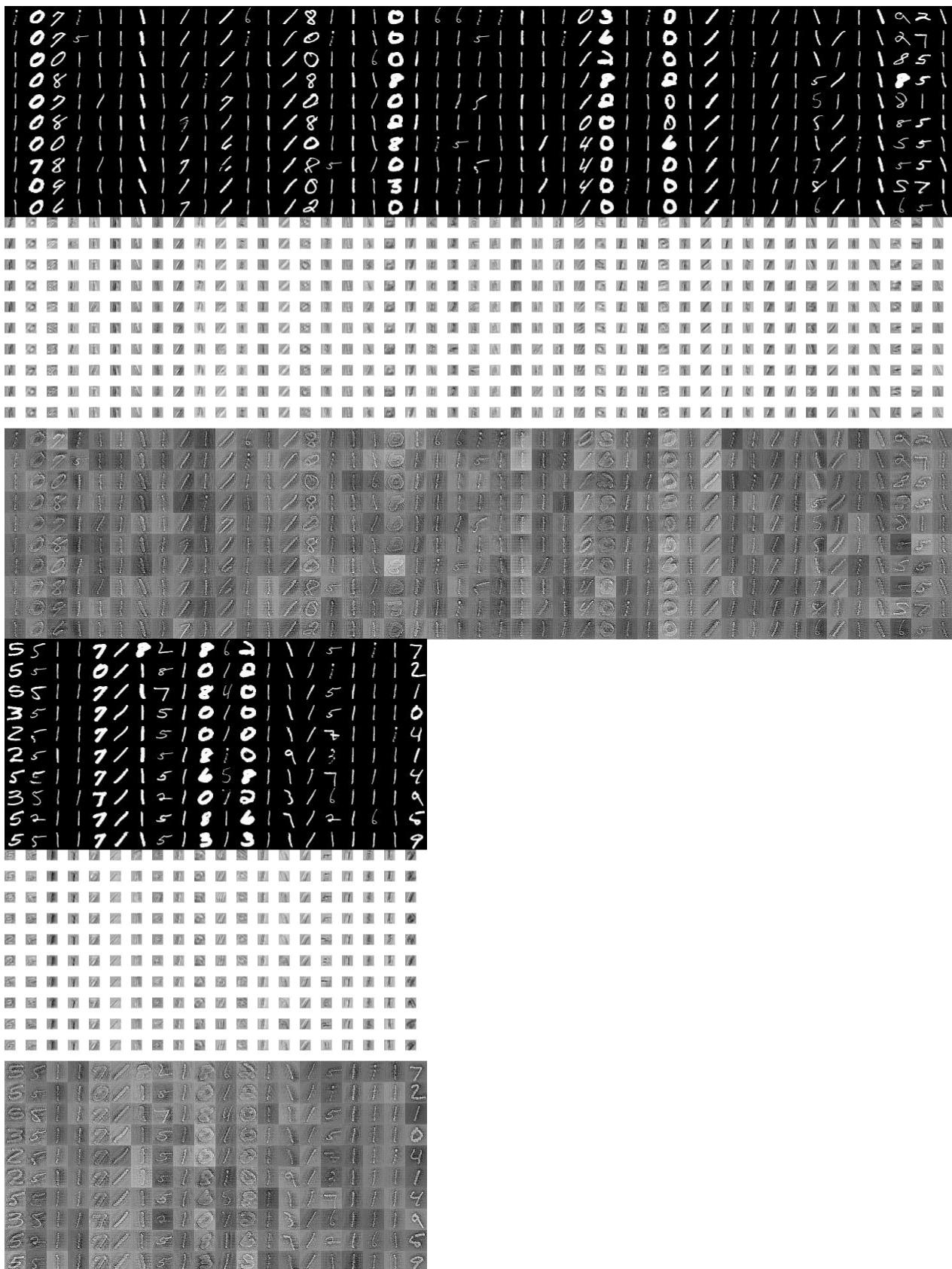
PATCH mode

./simple_results/layer2Conv2D0

COLUMNS: 0..64 featuremaps independently; last column: all layers

ROWS: 0-9: Orig images best activating the featuremap. 10-19: activation pattern. 20-29: deconv visualization in input pixel space



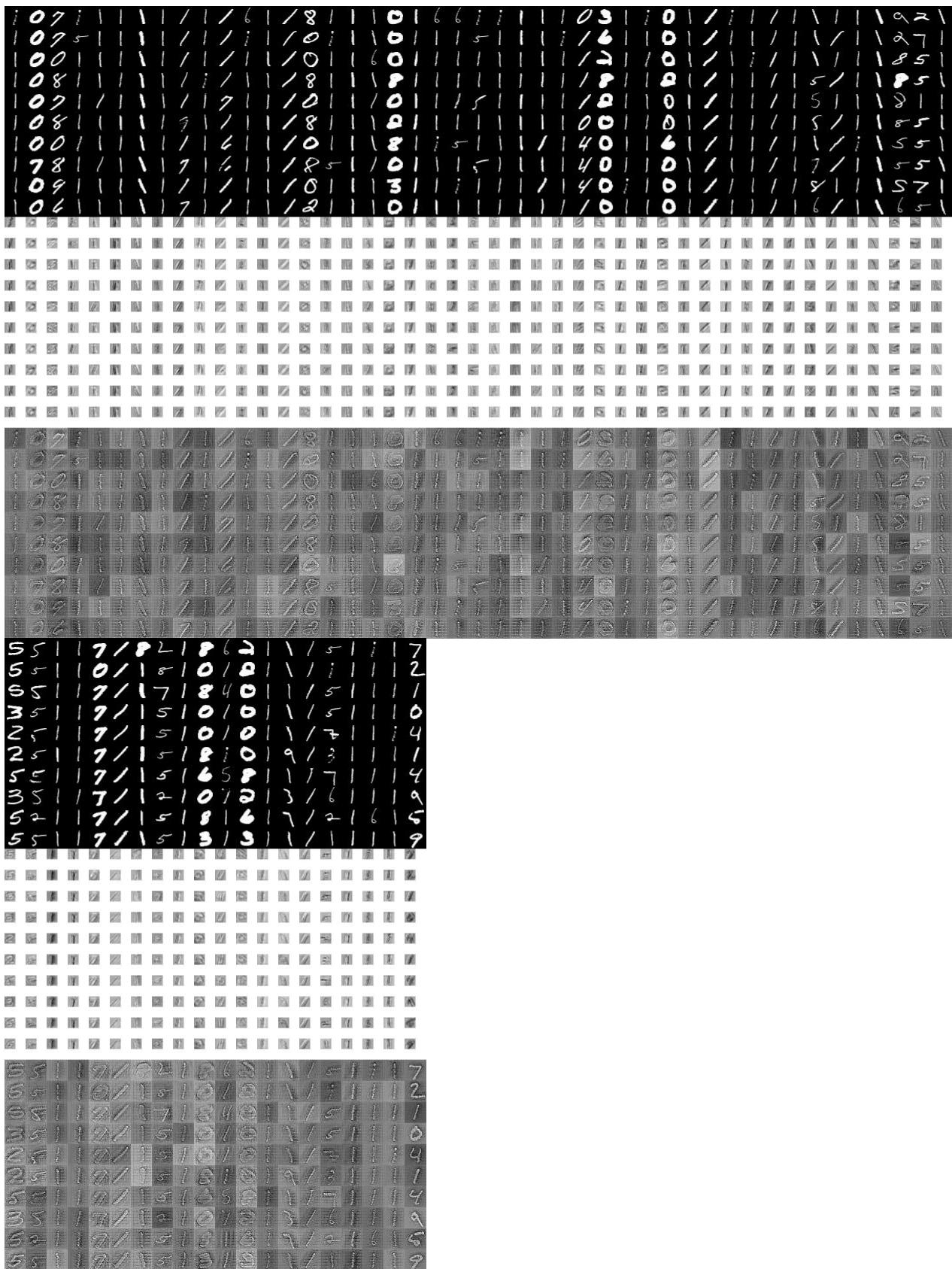


PATCH mode

./simple_results/layer2BiasAdd0

COLUMNS: 0..64 featuremaps independently; last column: all layers

ROWS: 0-9: Orig images best activating the featuremap. 10-19: activation pattern. 20-29: deconv visualization in input pixel space

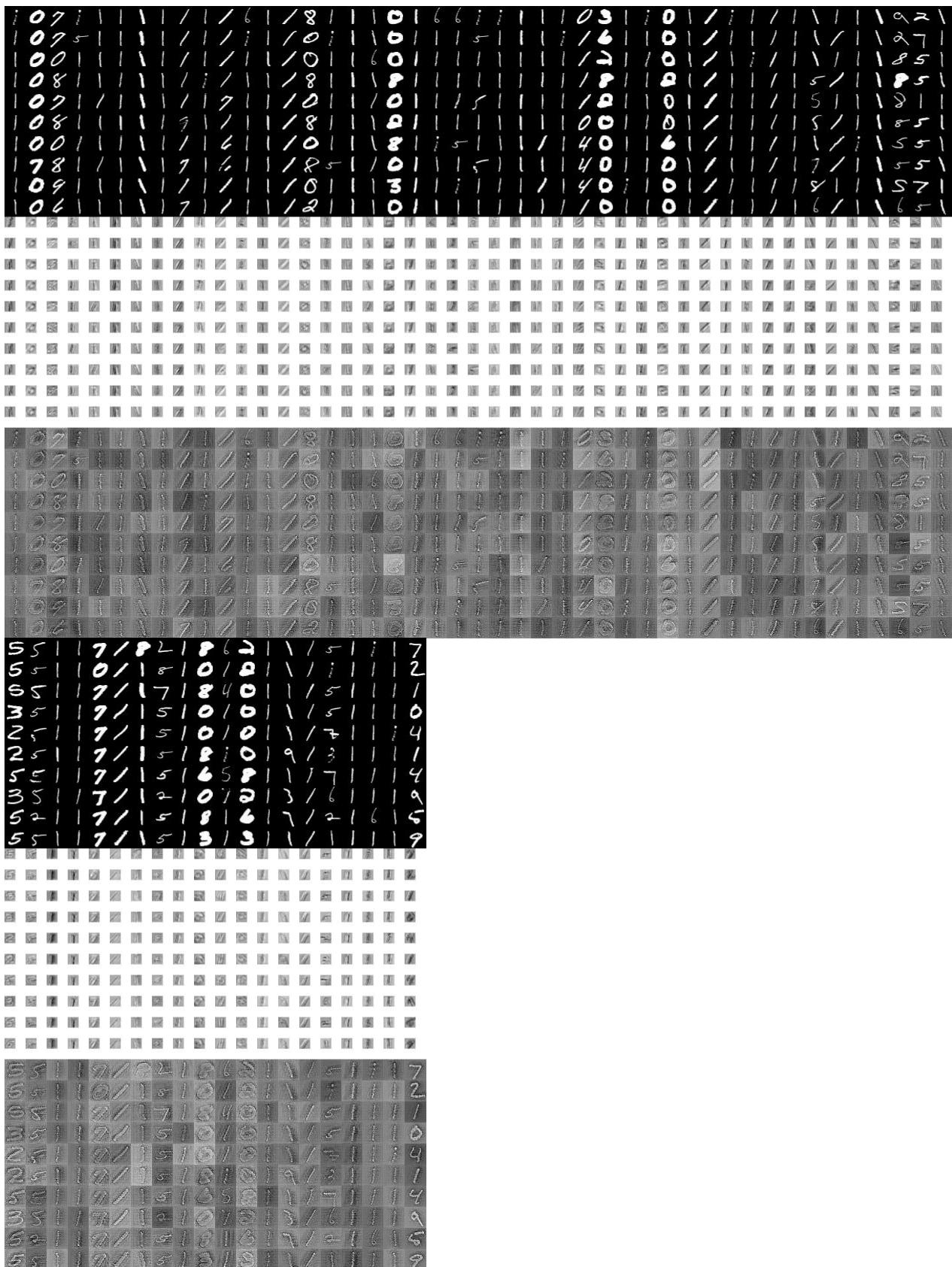


FULL mode (not zooming to the best patch)

./simple_results/layer2BiasAdd0

COLUMNS: 0..64 featuremaps independently; last column: all layers

ROWS: 0-9: Orig images best activating the featuremap. 10-19: activation pattern. 20-29: deconv visualization in input pixel space

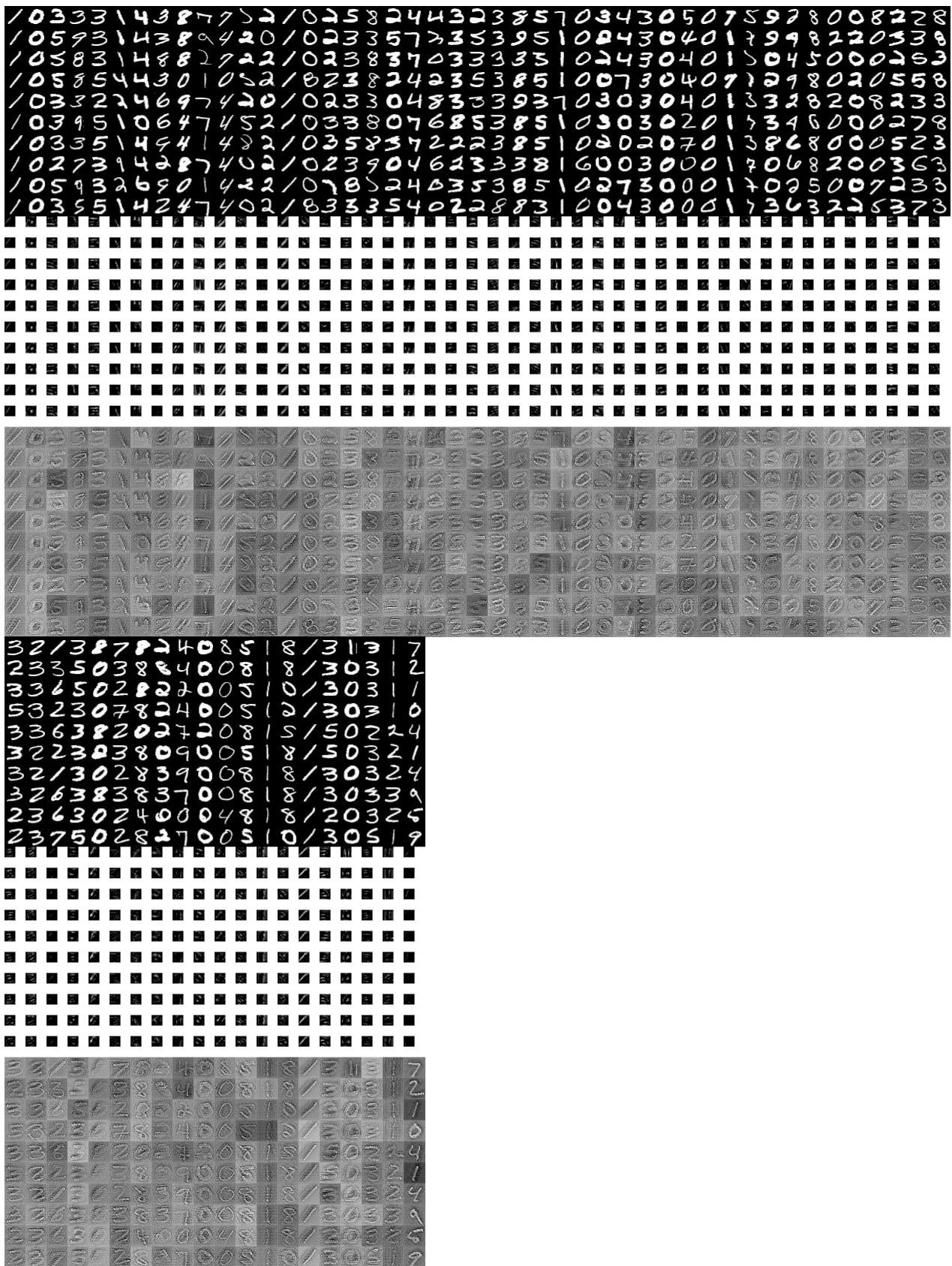


PATCH mode

./simple_results/layer2Relu0

COLUMNS: 0..64 featuremaps independently; last column: all layers

ROWS: 0-9: Orig images best activating the featuremap. 10-19: activation pattern. 20-29: deconv visualization in input pixel space



FULL mode (not zooming to the best patch)

./simple_results/layer2Relu0

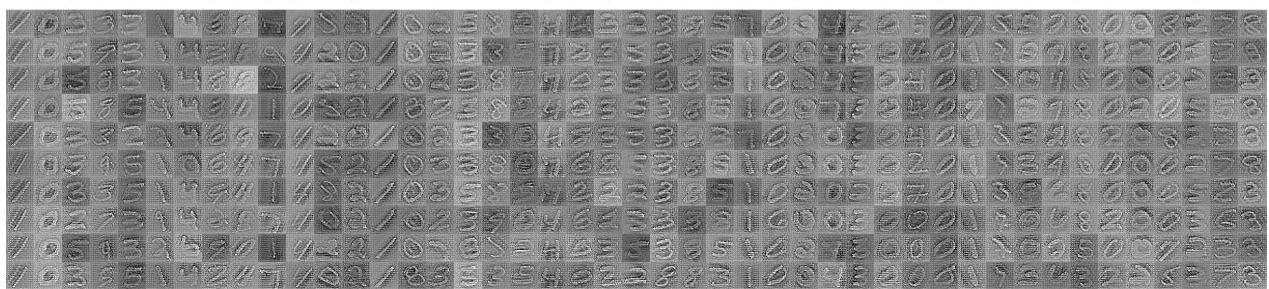
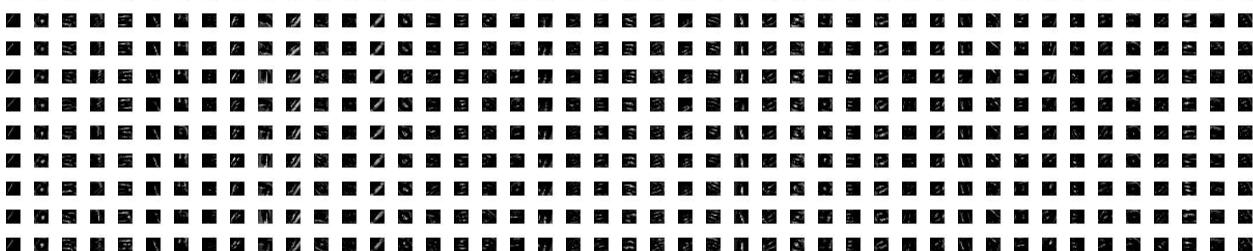
COLUMNS: 0..64 featuremaps independently; last column: all layers

ROWS: 0-9: Orig images best activating the featuremap. 10-19: activation pattern. 20-29: deconv visualization in input pixel space

```

/033314387752/0258244323857034305075978008228
/059314389420/0233573353951084304017998220338
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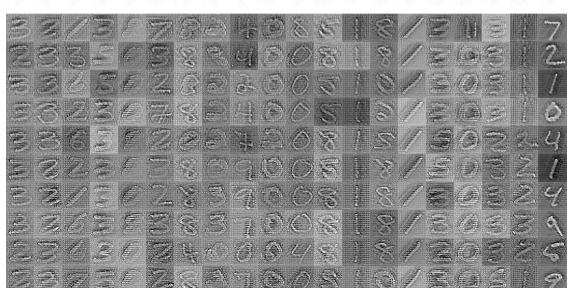
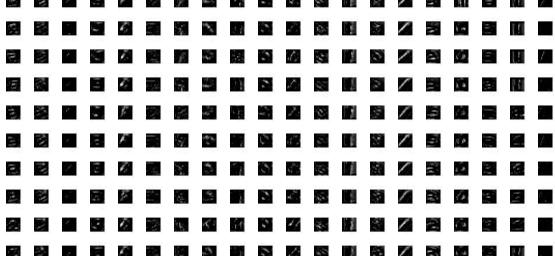
```



```

32/32782408518/31317
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23630240004818/20325
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```

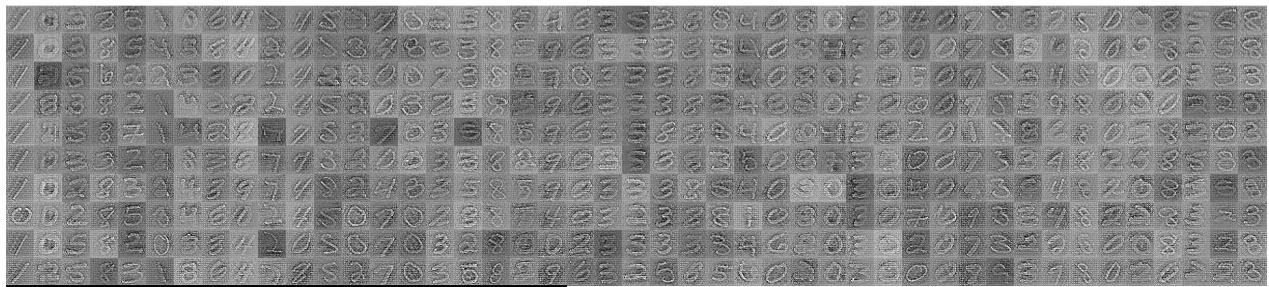


PATCH mode
./simple_results/layer2Pool2DMaxPool0
COLUMNS: 0..64 featuremaps independently; last column: all layers
ROWS: 0-9: Orig images best activating the featuremap. 10-19: activation pattern. 20-29: deconv visualization in input pixel space

```

/03251064545270258246353884080304078875008568
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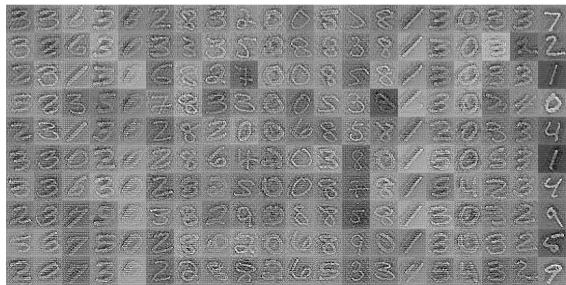
```



```

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52350783300533430340
23/30282006858/20334
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33630282500878/154234
23790382908858/30329
56750280206890/30325
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```



FULL mode (not zooming to the best patch)

./simple_results/layer2Pool2DMaxPool0

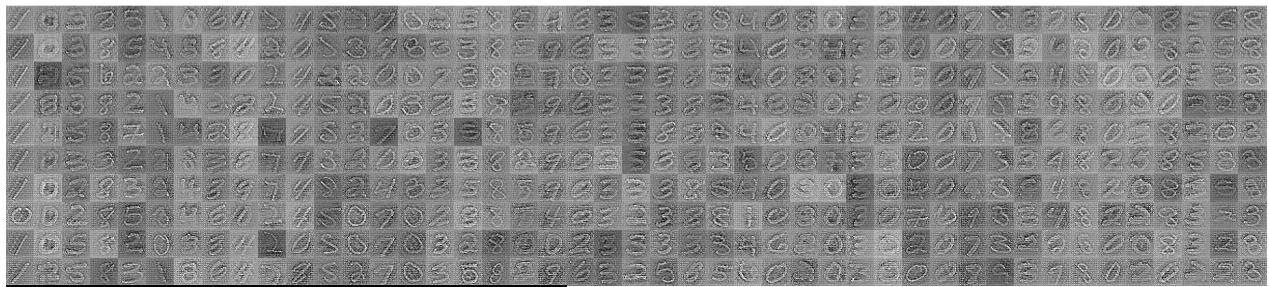
COLUMNS: 0..64 featuremaps independently; last column: all layers

ROWS: 0-9: Orig images best activating the featuremap. 10-19: activation pattern. 20-29: deconv visualization in input pixel space

```

/03251064545270258246353884080304078875008568
/038545842053483385963533354084300075962028358
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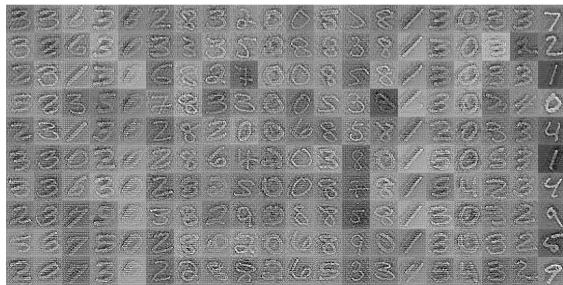
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```

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56750280206890/30325
20730208826533454329

```



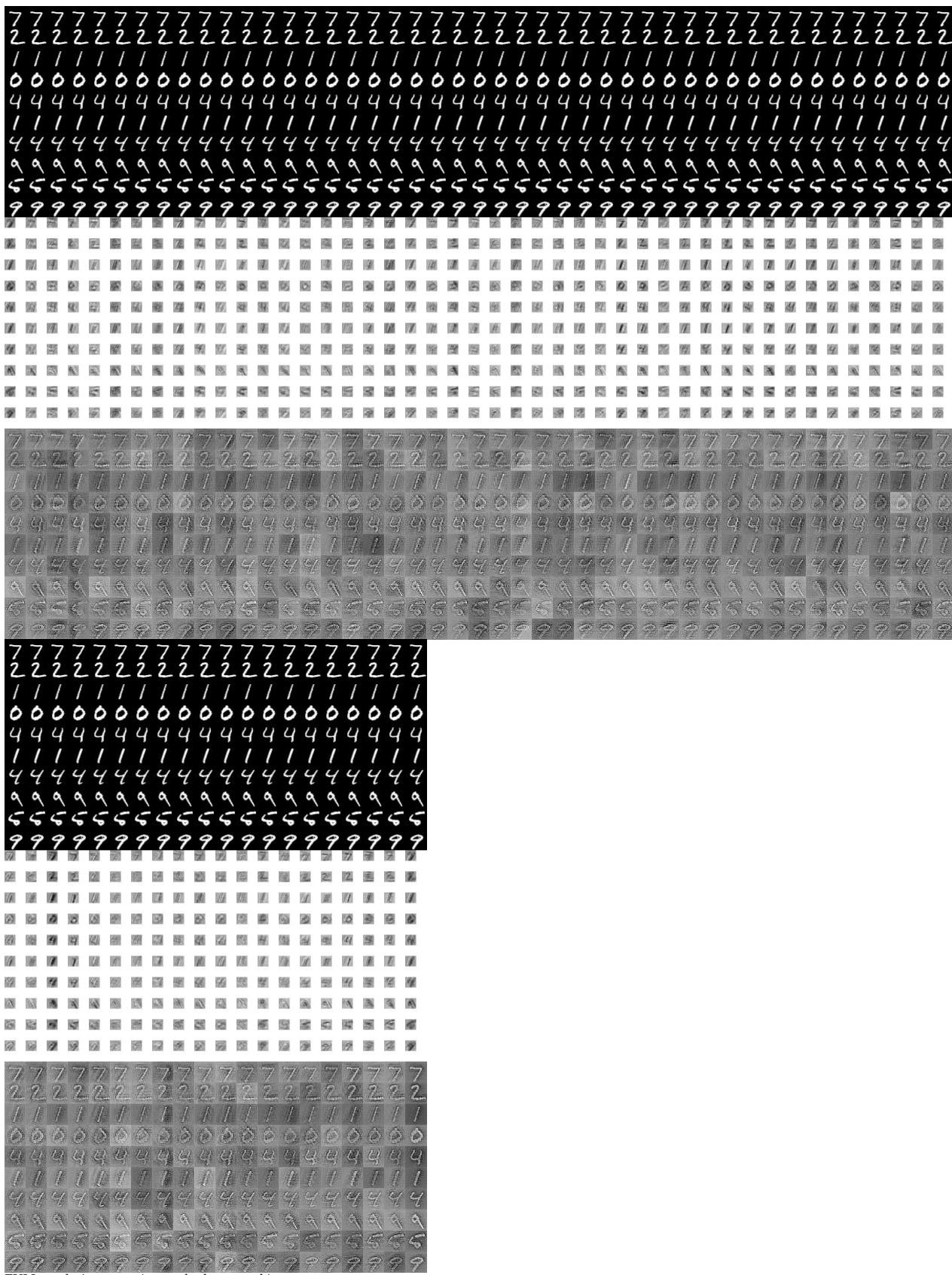
LAYER-2: Fix Images set + with best patches

PATCH mode

./simple_results/layer2Conv2D0

COLUMNS: 0..64 featuremaps independently; last column: all layers

ROWS: 0-9: Orig images best activating the featuremap. 10-19: activation pattern. 20-29: deconv visualization in input pixel space

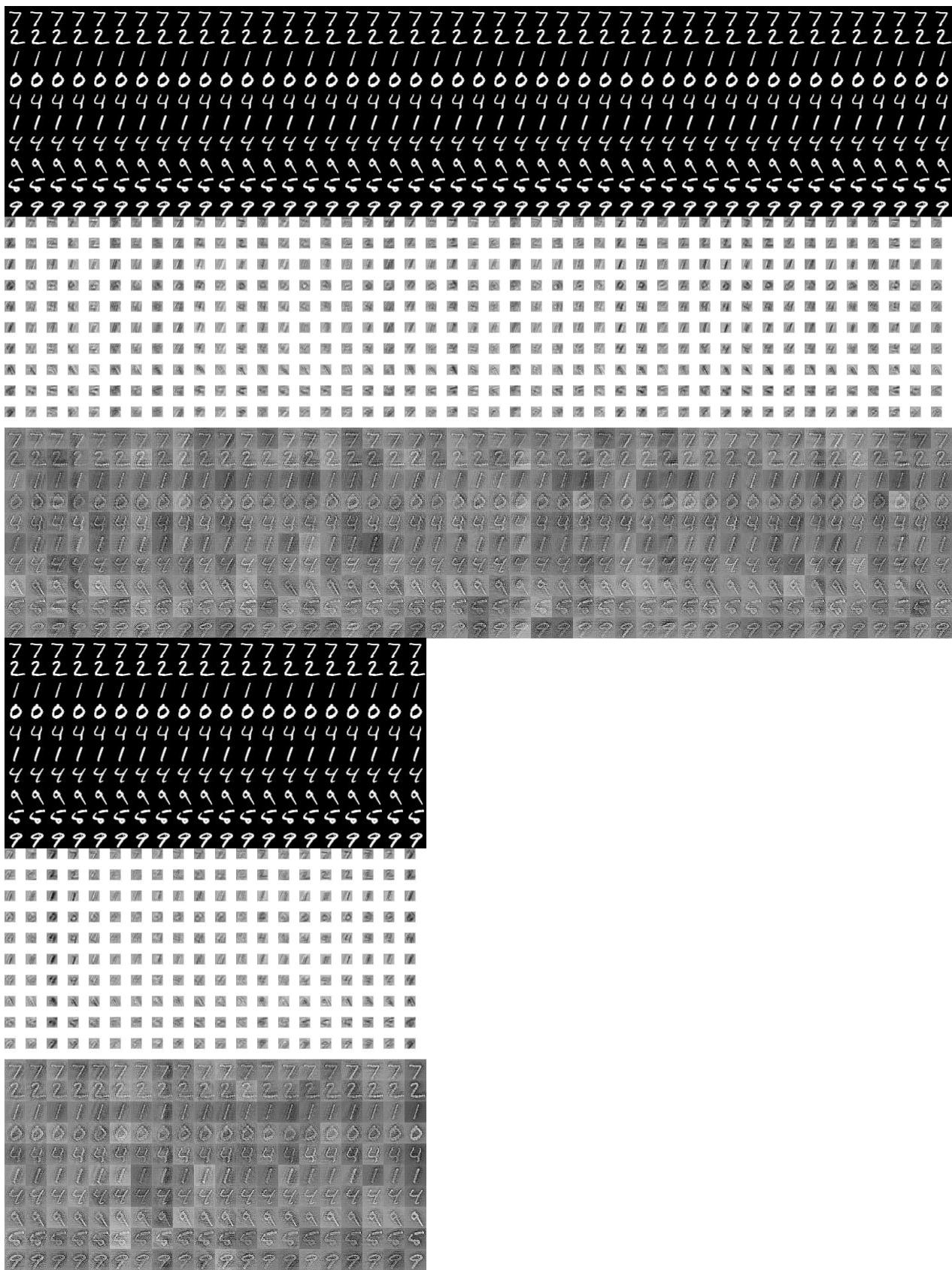


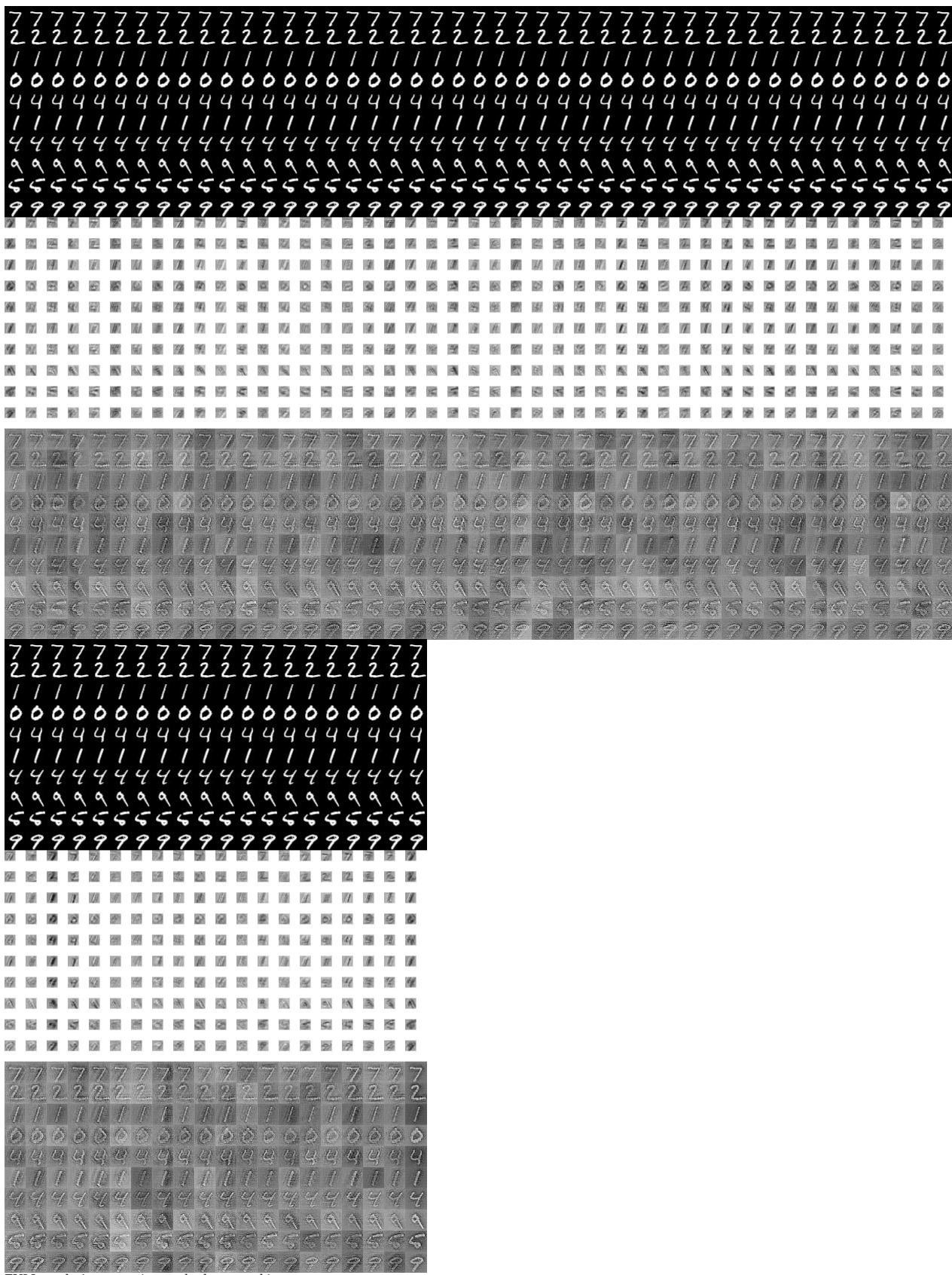
FULL mode (not zooming to the best patch)

./simple_results/layer2Conv2D0
COLUMNS: 9, 64 features

COLUMNS: 0..64 featuremaps independently; last column: all layers
 ROWS: 0..9. Orig images best activating the featuremaps. 10..19: activated by noise.

ROWS: 0-9: Orig images best activating the featuremap. 10-19: activation pattern. 20-29: deconv visualization in input pixel space



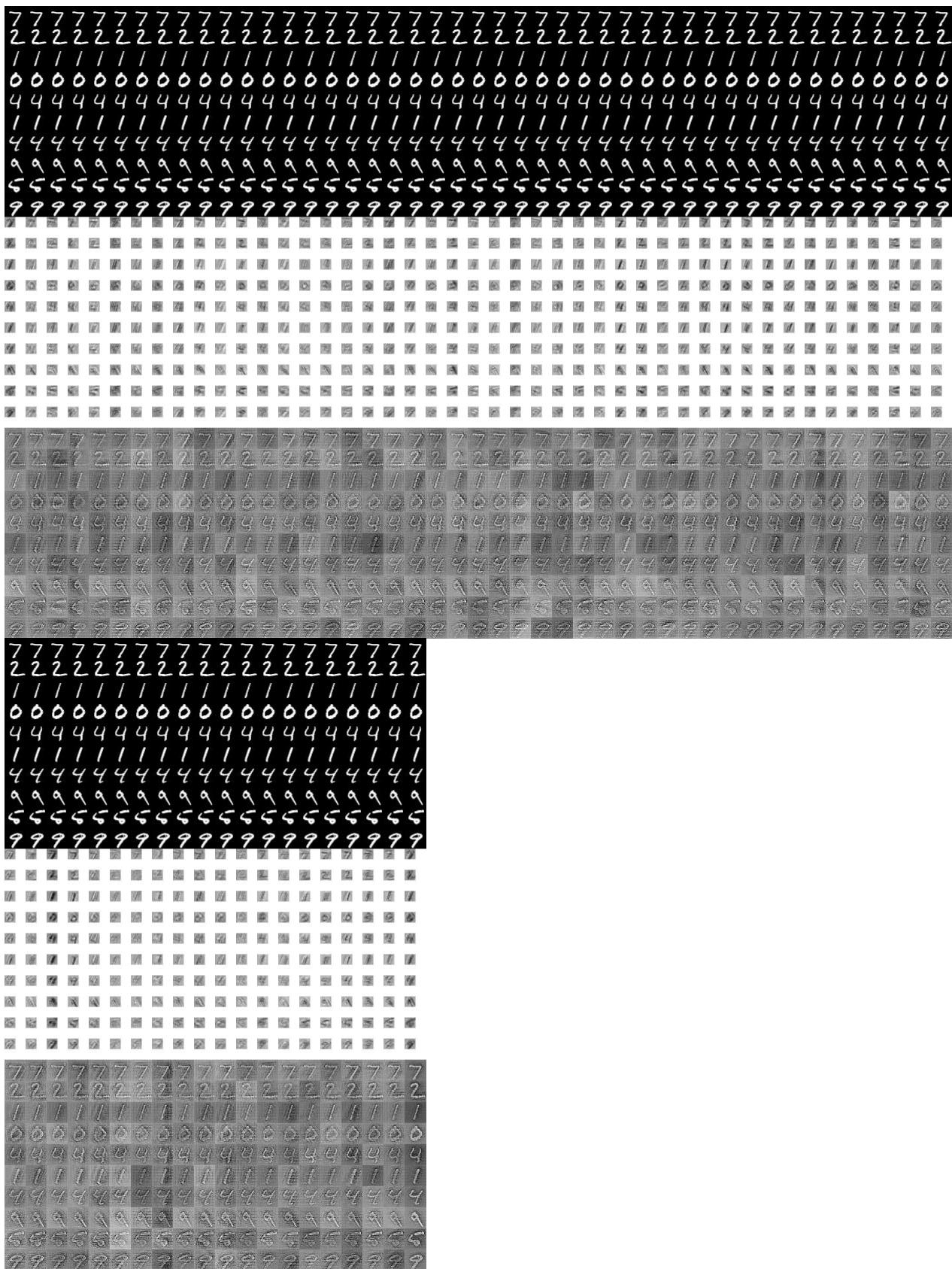


FULL mode (not zooming to the best patch)

./simple_results/layer2BiasAdd0
COLUMN 0 64 float values in

COLUMNS: 0..64 featuremaps independently; last column: all layers
 ROWS: 0..9. Orig images best activating the featuremaps. 10..19: activated by noise.

ROWS: 0-9: Orig images best activating the featuremap. 10-19: activation pattern. 20-29: deconv visualization in input pixel space

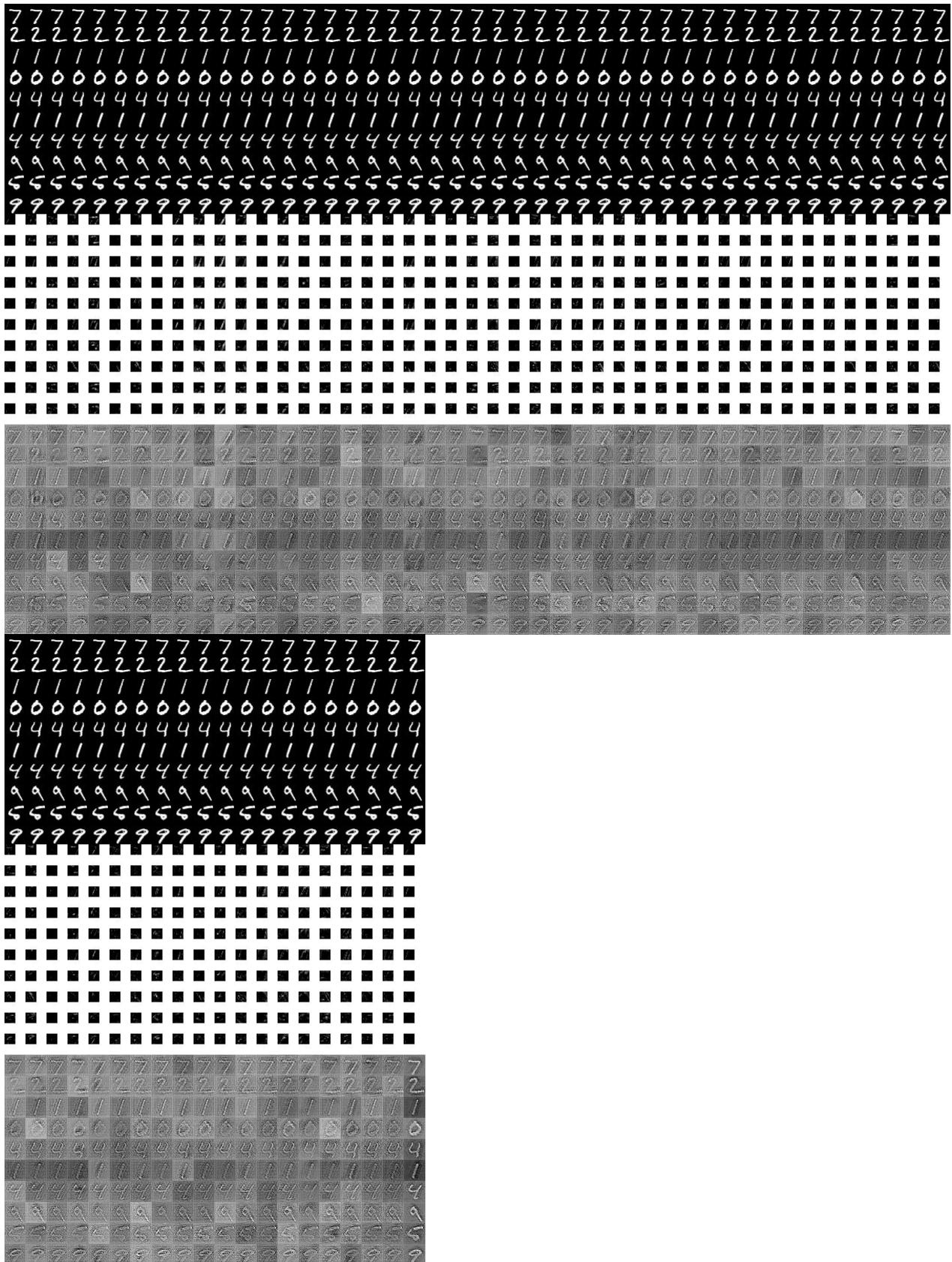


PATCH mode

./simple_results/layer2Relu0

COLUMNS: 0..64 featuremaps independently; last column: all layers

ROWS: 0-9: Orig images best activating the featuremap. 10-19: activation pattern. 20-29: deconv visualization in input pixel space

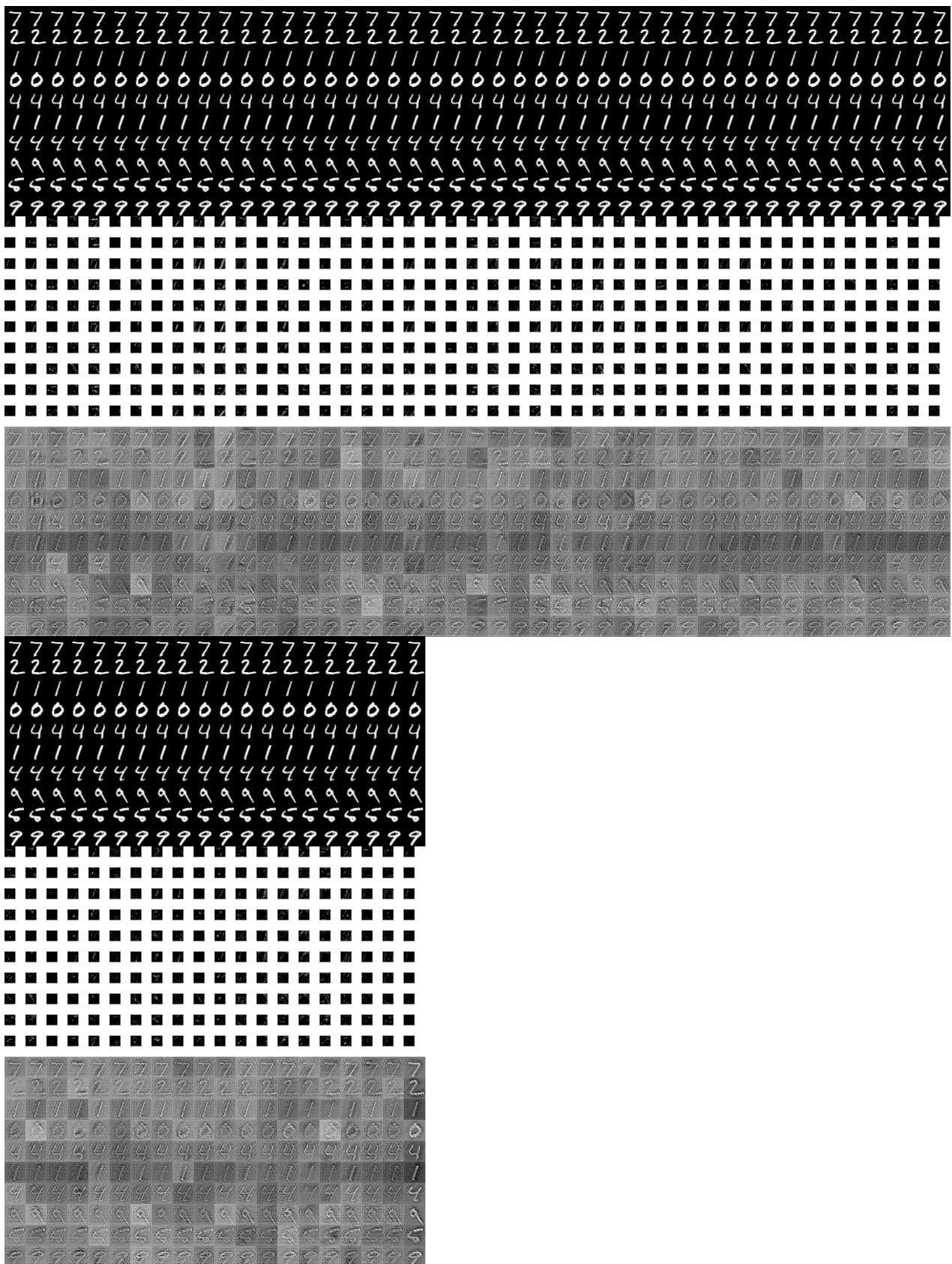


FULL mode (not zooming to the best patch)

./simple_results/layer2Relu0

COLUMNS: 0..64 featuremaps independently; last column: all layers

ROWS: 0-9: Orig images best activating the featuremap. 10-19: activation pattern. 20-29: deconv visualization in input pixel space

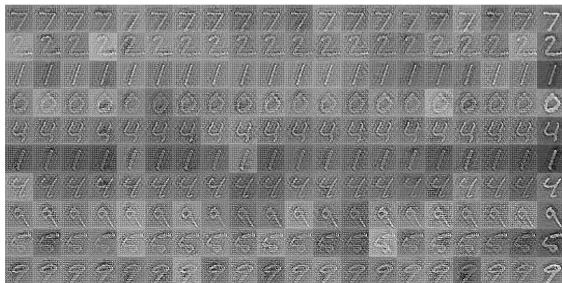
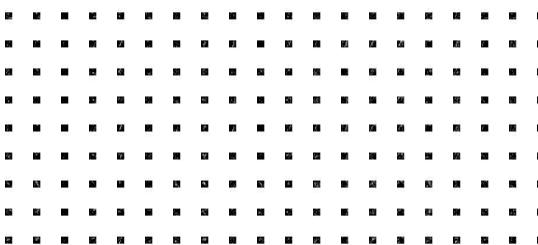
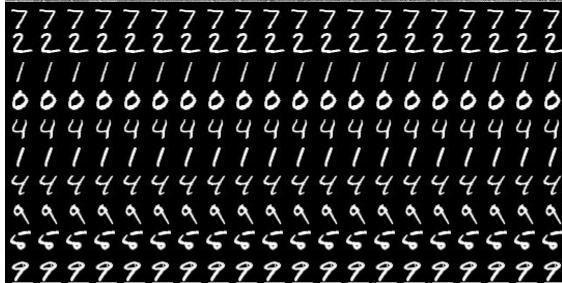
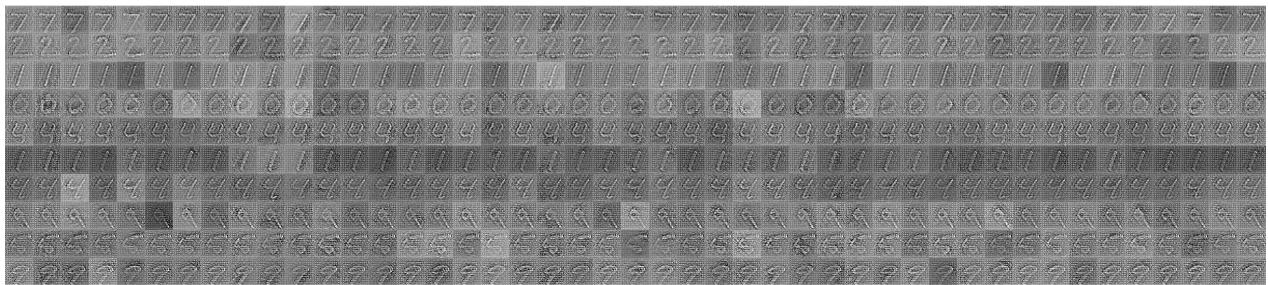
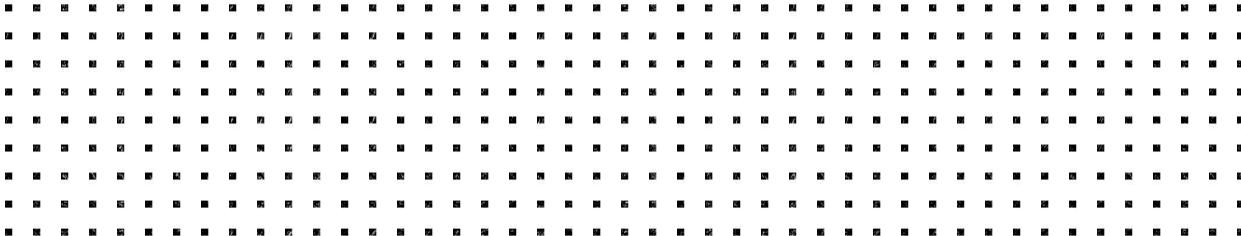
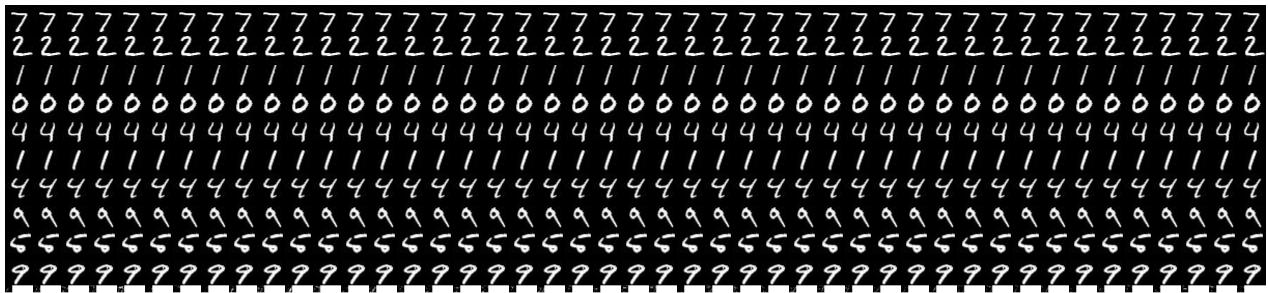


PATCH mode

./simple_results/layer2Pool2DMaxPool0

COLUMNS: 0..64 featuremaps independently; last column: all layers

ROWS: 0-9: Orig images best activating the featuremap. 10-19: activation pattern. 20-29: deconv visualization in input pixel space

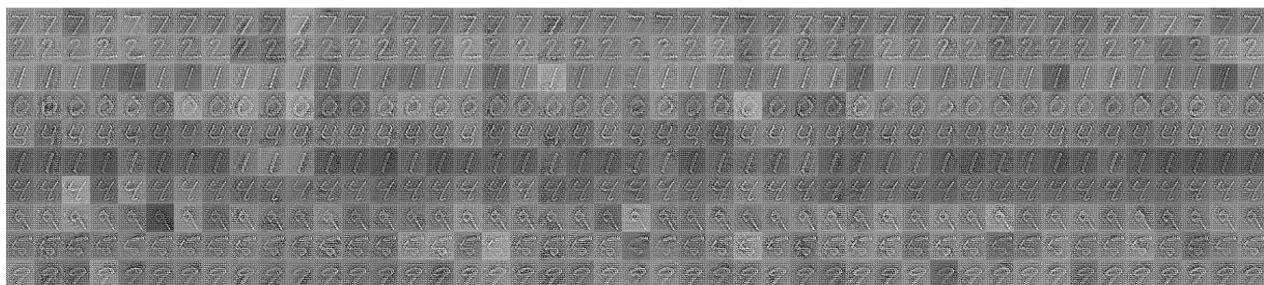


FULL mode (not zooming to the best patch)

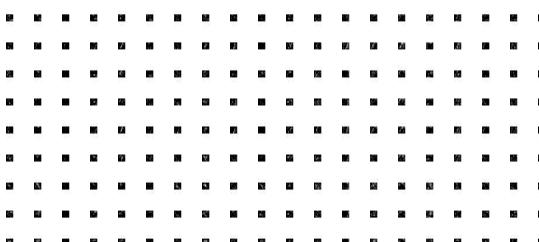
./simple_results/layer2Pool2DMaxPool0

COLUMNS: 0..64 featuremaps independently; last column: all layers

ROWS: 0-9: Orig images best activating the featuremap. 10-19: activation pattern. 20-29: deconv visualization in input pixel space



7777777777777777777777
2222222222222222222222
1111111111111111111111
0000000000000000000000
4444444444444444444444
1111111111111111111111
4444444444444444444444
9999999999999999999999
5555555555555555555555
9999999999999999999999



A 10x10 grid of handwritten digits from 0 to 9, arranged in two rows of five. The digits are rendered in a monochromatic, textured style, possibly representing a grayscale image of handwritten digits.