Results after improving weight initialization and add one linear layer after pooling for ConvDeep

Shallow Cell

Deep Cell

(…) = no. neurons in setting 2

DeepV2 Cell

ConvDeep Cell
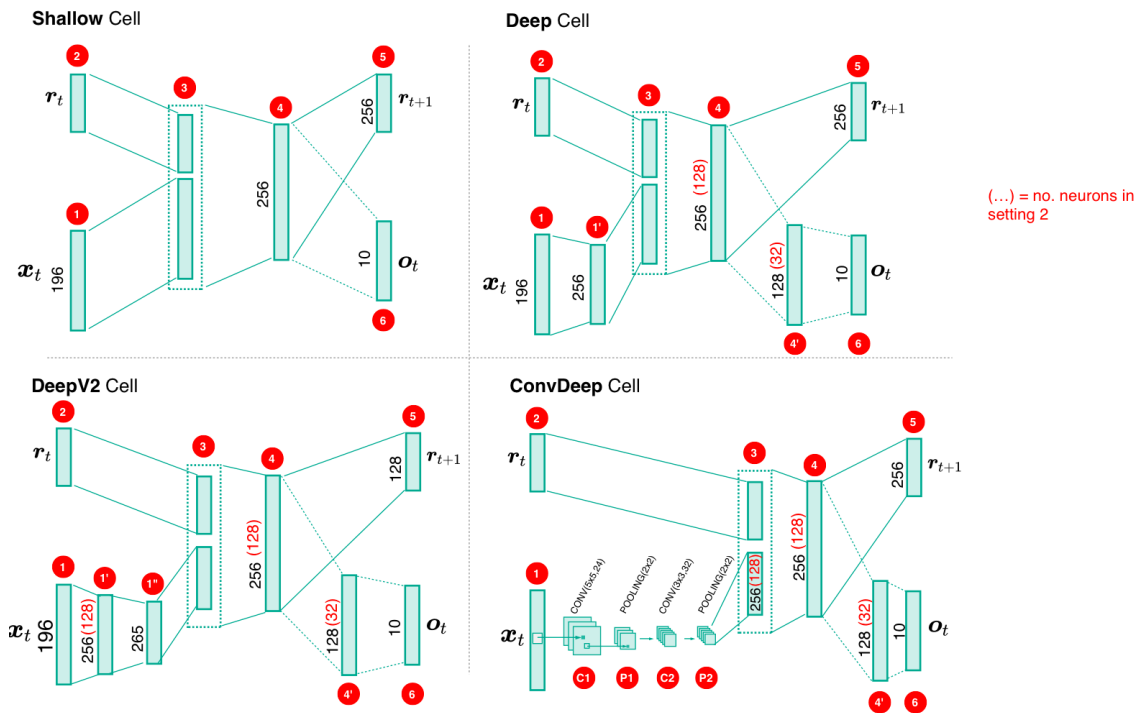
# trainable variables	Shallow	Deep	DeepV2	ConvDeep
Setting 1 (discussed yesterday)	184330	281738	347530	353818
Setting 2	184330	153578	161386	151802

Setting 1 Result
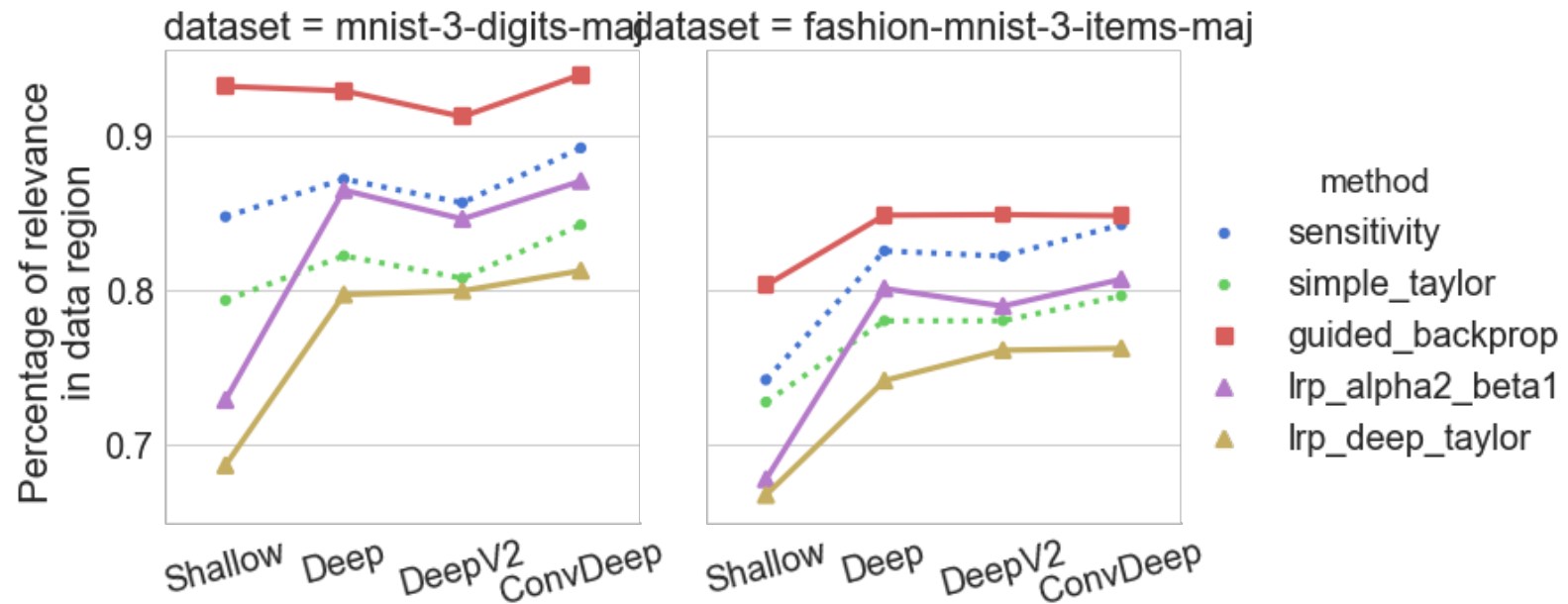
dataset = mnist-3-digits-maj / dataset = fashion-mnist-3-items-maj

method
- • sensitivity
- • simple_taylor
- ■ guided_backprop
- ▲ lrp_alpha2_beta1
- ▲ lrp_deep_taylor

Percentage of relevance in data region

Shallow Deep DeepV2 ConvDeep

```
plot.show_model_accuracy('mnist-3-digits-maj', seqs=[12])
```

mnist-3-digits-maj accuracy

	seq	Shallow	Deep	DeepV2	ConvDeep
0	12	0.9806	0.9861	0.9889	0.9911

```
plot.show_model_accuracy('fashion-mnist-3-items-maj', seqs=[12])
```

fashion-mnist-3-items-maj accuracy

	seq	Shallow	Deep	DeepV2	ConvDeep
0	12	0.902	0.9065	0.9133	0.9298

Setting 2 Result


```
plot.show_model_accuracy('mnist-3-digits-maj', seqs=[12])
```
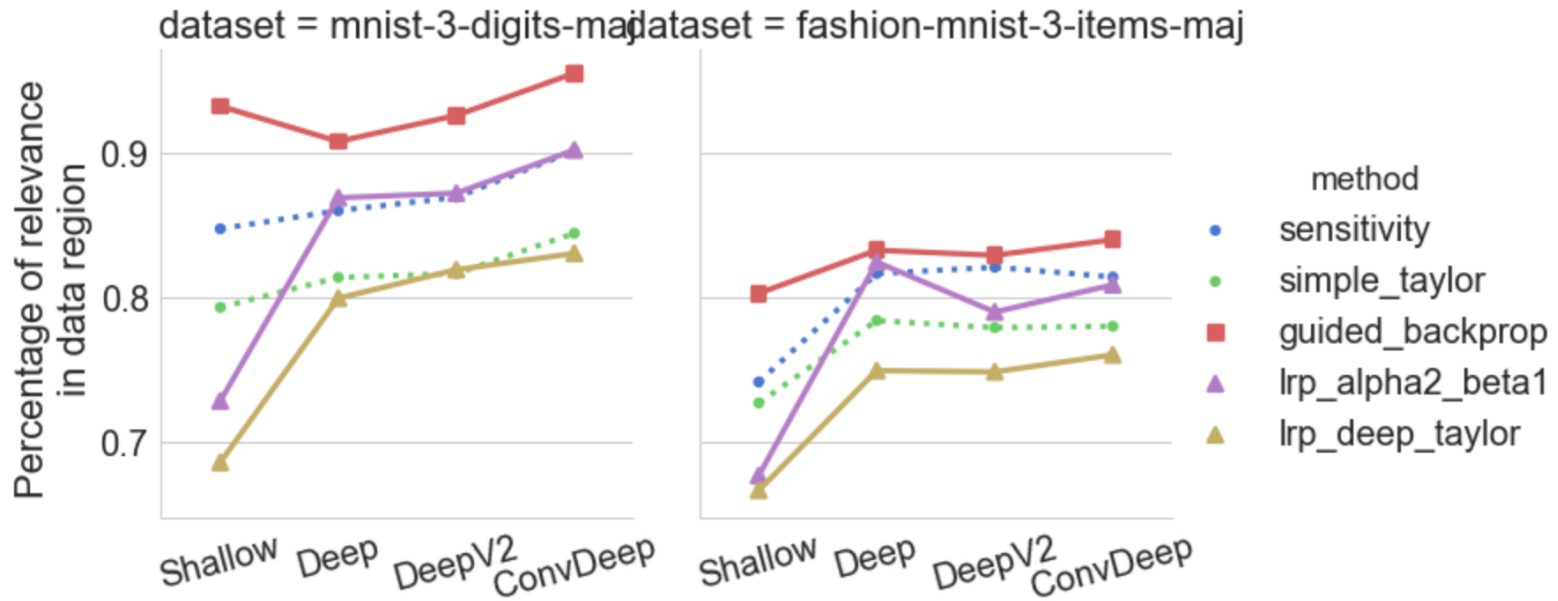
mnist-3-digits-maj accuracy

	seq	Shallow	Deep	DeepV2	ConvDeep
0	12	0.9806	0.9839	0.9809	0.9903

```
plot.show_model_accuracy('fashion-mnist-3-items-maj', seqs=[12])
```

fashion-mnist-3-items-maj accuracy

	seq	Shallow	Deep	DeepV2	ConvDeep
0	12	0.902	0.9065	0.9071	0.9238