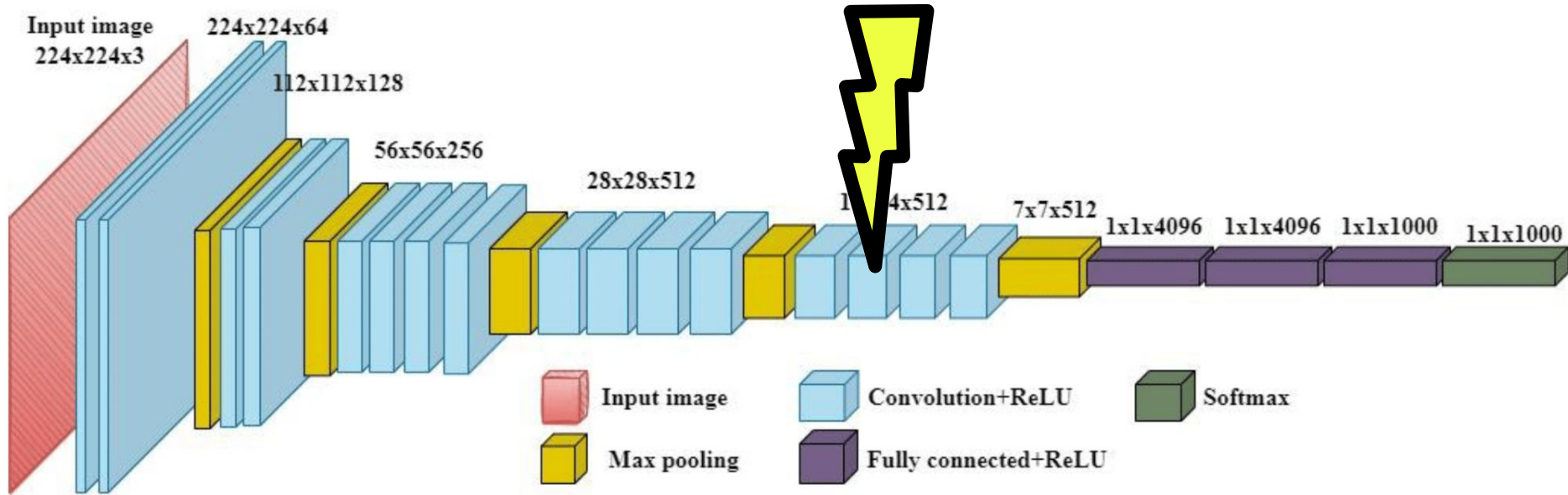
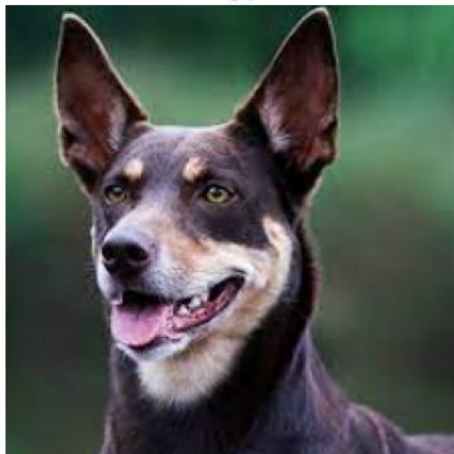


Image classifier



Deep Dream

starting point



dream duration=10



dream duration=60



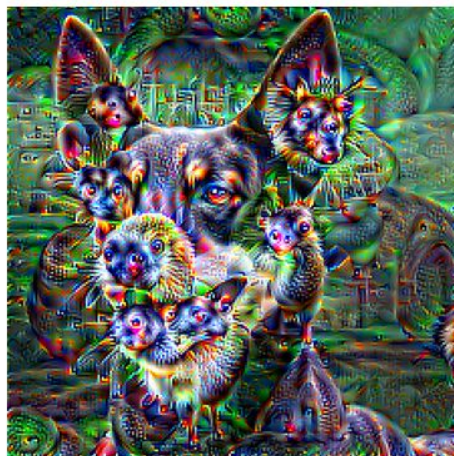
dream duration=110



dream duration=160



dream duration=210



start



dream layer=10



dream layer=13



dream layer=16



dream layer=19



dream layer=22



dream layer=25



dream layer=28



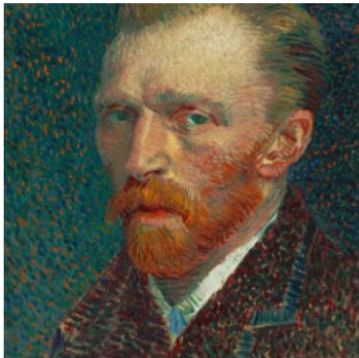
dream layer=31



dream layer=34



start



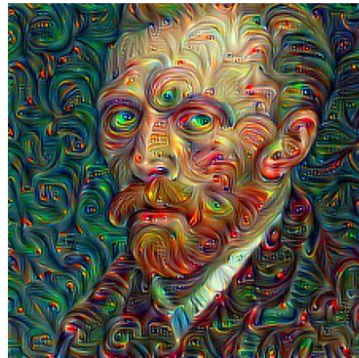
dream layer=10



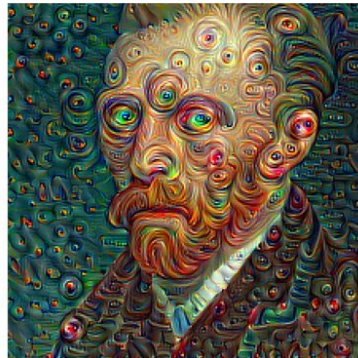
dream layer=13



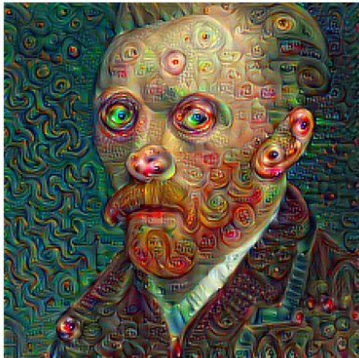
dream layer=16



dream layer=19



dream layer=22



dream layer=25



dream layer=28



dream layer=31



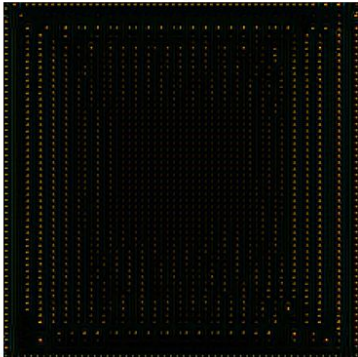
dream layer=34



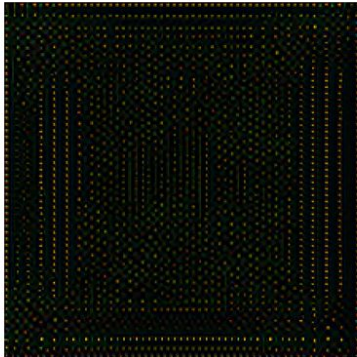
start



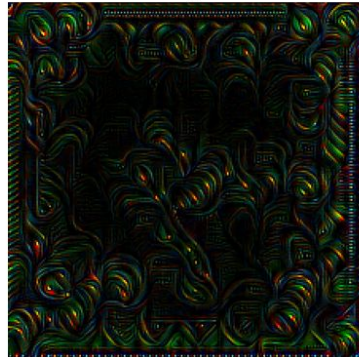
dream layer=10



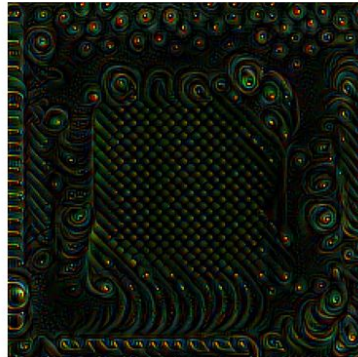
dream layer=13



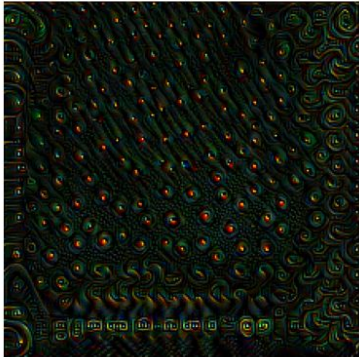
dream layer=16



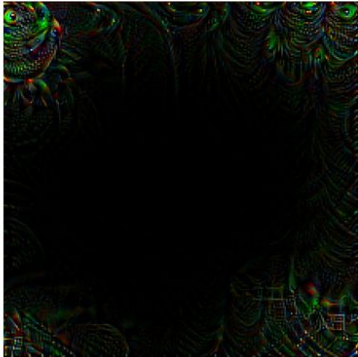
dream layer=19



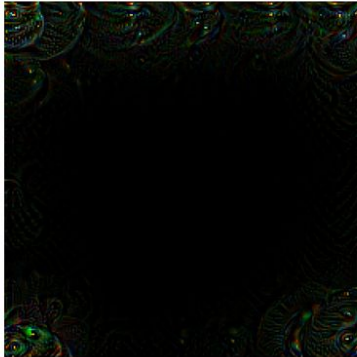
dream layer=22



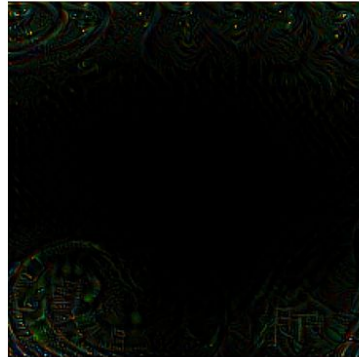
dream layer=25



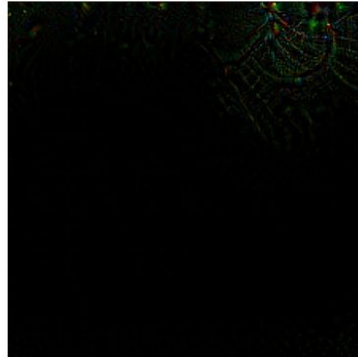
dream layer=28



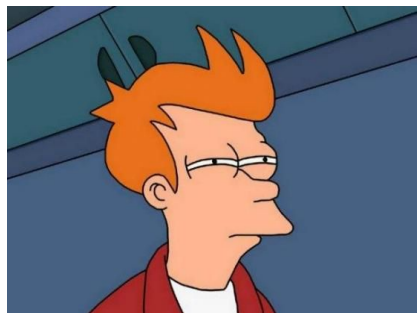
dream layer=31



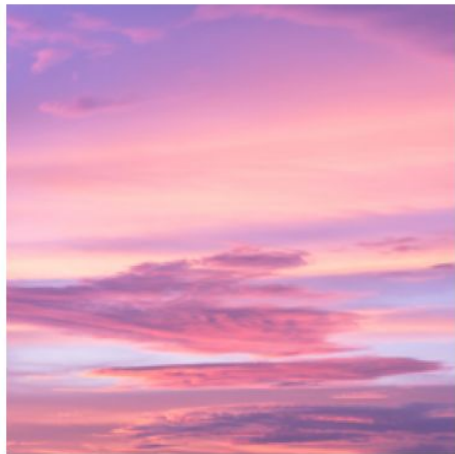
dream layer=34



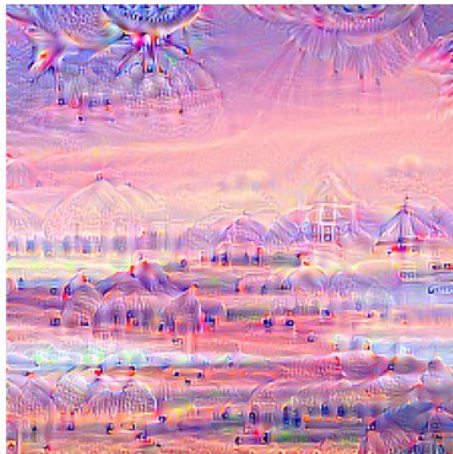
Meaning?



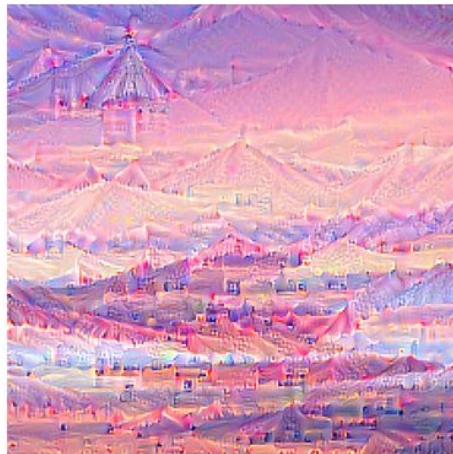
start



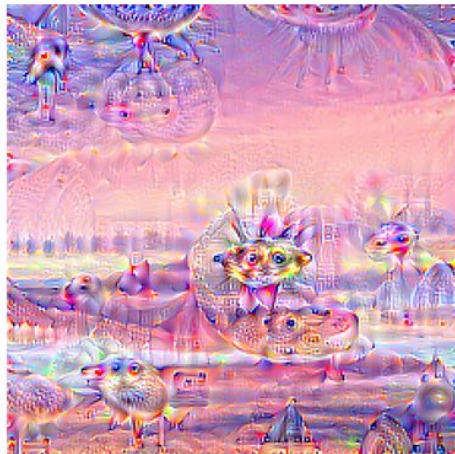
layer 25 buildings?



layer 30 mountains?

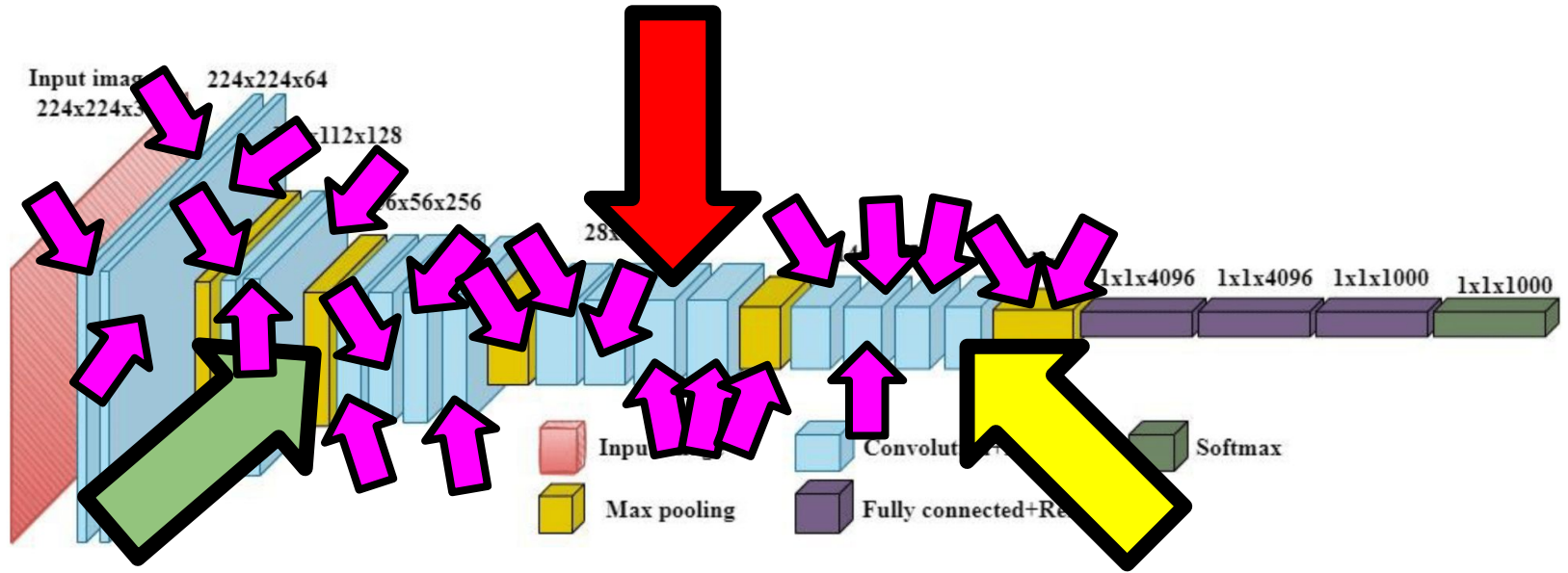


layer 27 creatures?





Mechanistic Interpretability



Kelpies



```
[{21: [382, 403, 300, 66, 28, 110, 484, 56, 483, 415]},  
{21: [382, 507, 110, 56, 300, 144, 59, 415, 352, 198]},  
{21: [334, 66, 383, 426, 110, 100, 502, 403, 19, 450]},  
{21: [135, 12, 110, 9, 177, 66, 382, 426, 278, 153]},  
{21: [426, 66, 334, 205, 438, 423, 403, 383, 239, 110]}]
```

```
[{21: [382, 403, 300, 66, 28, 110, 484, 56, 483, 415]},  
{21: [382, 507, 110, 56, 300, 144, 59, 415, 352, 198]},  
{21: [334, 66, 383, 426, 110, 100, 502, 403, 19, 450]},  
{21: [135, 12, 110, 9, 177, 66, 382, 426, 278, 153]},  
{21: [426, 66, 334, 205, 438, 423, 403, 383, 239, 110]}]
```

```
[{21: [382, 403, 300, 66, 28, 110, 484, 56, 483, 415]},  
{21: [382, 507, 110, 56, 300, 144, 59, 415, 352, 198]},  
{21: [334, 66, 383, 426, 110, 100, 502, 403, 19, 450]},  
{21: [135, 12, 110, 9, 177, 66, 382, 426, 278, 153]},  
{21: [426, 66, 334, 205, 438, 423, 403, 383, 239, 110]}]
```

```
Counter(shared_layers).most_common(2)
```

✓ 0.0s

```
[(110, 5), (66, 4)]
```


layer=27 channel=482 occurrences=4



layer=28 channel=268 occurrences=5



layer=35 channel=37 occurrences=5



layer=27 channel=482 occurrences=4



layer=28 channel=268 occurrences=5



layer=35 channel=37 occurrences=5



layer=27 channel=482 occurrences=4



layer=28 channel=268 occurrences=5



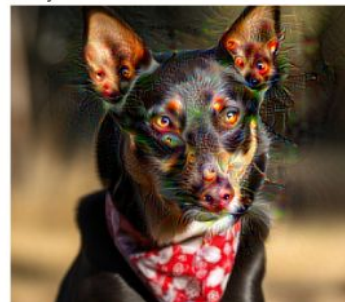
layer=35 channel=37 occurrences=5



layer=27 channel=482 occurrences=4



layer=28 channel=268 occurrences=5



layer=35 channel=37 occurrences=5



layer=27 channel=482 occurrences=4



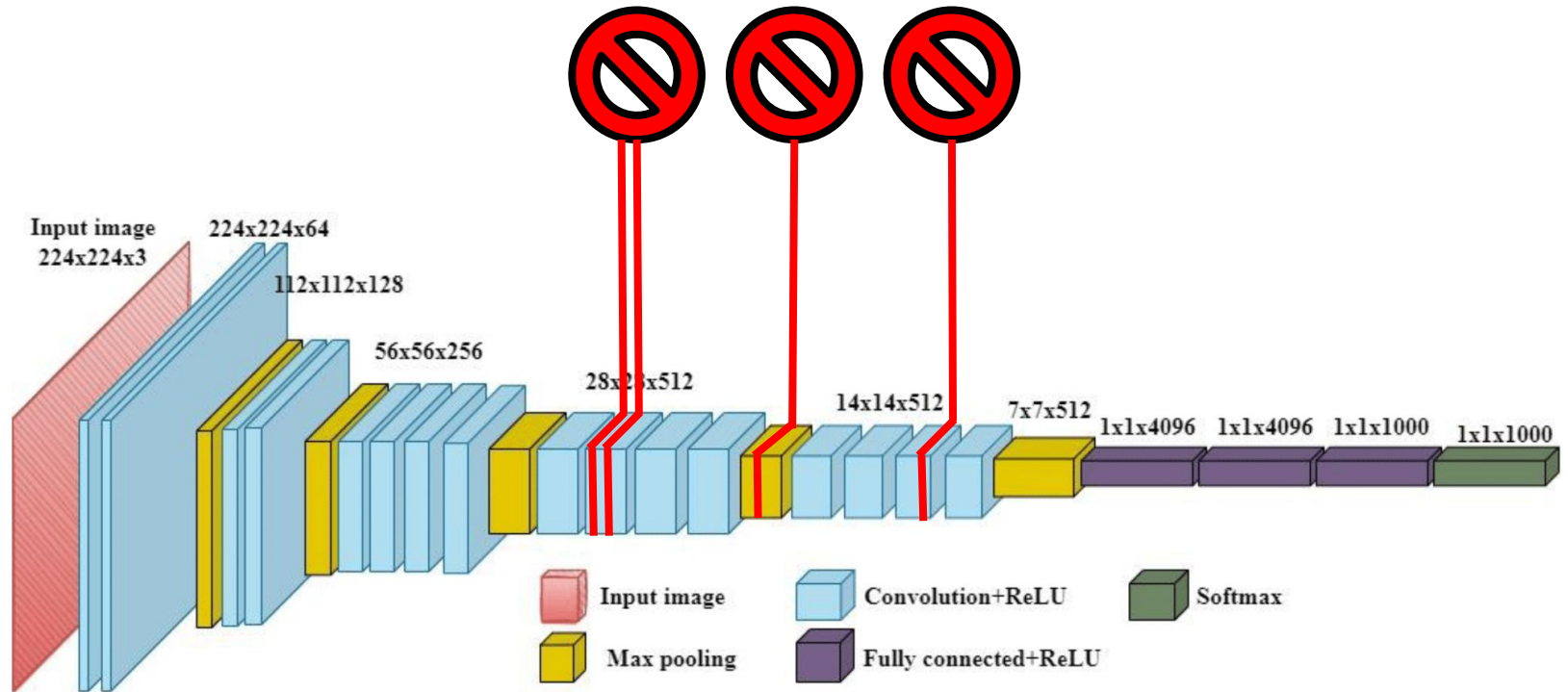
layer=28 channel=268 occurrences=5



layer=35 channel=37 occurrences=5



Blind



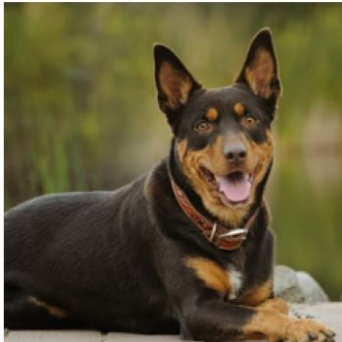
VGG19 : kelpie (92.88%)
blinded : toy terrier (15.76%)



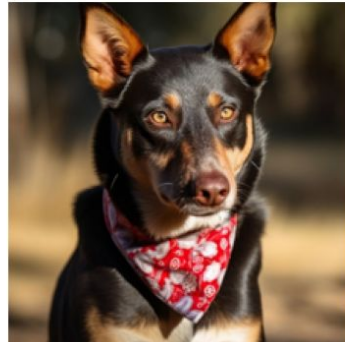
VGG19 : kelpie (98.33%)
blinded : Weimaraner (28.80%)



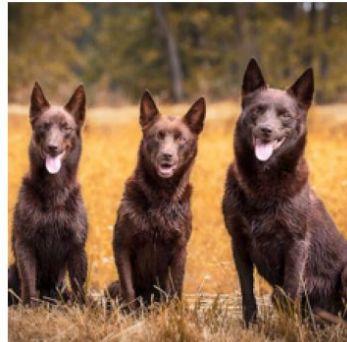
VGG19 : kelpie (98.20%)
blinded : kelpie (33.67%)



VGG19 : kelpie (97.02%)
blinded : Doberman, Doberman p... (55.06%)



VGG19 : kelpie (90.16%)
blinded : American black bear,... (48.36%)



VGG19 : skunk, polecat, wood... (99.95%)
blinded : skunk, polecat, wood... (99.94%)



VGG19 : fountain (97.91%)
blinded : fountain (94.90%)



VGG19 : Maltese dog, Maltese... (70.97%)
blinded : Maltese dog, Maltese... (43.79%)



VGG19 : German shepherd, Ger... (91.41%)
blinded : German shepherd, Ger... (52.67%)



VGG19 : mushroom (62.42%)
blinded : mushroom (62.77%)



