

Stanford Cars Dataset



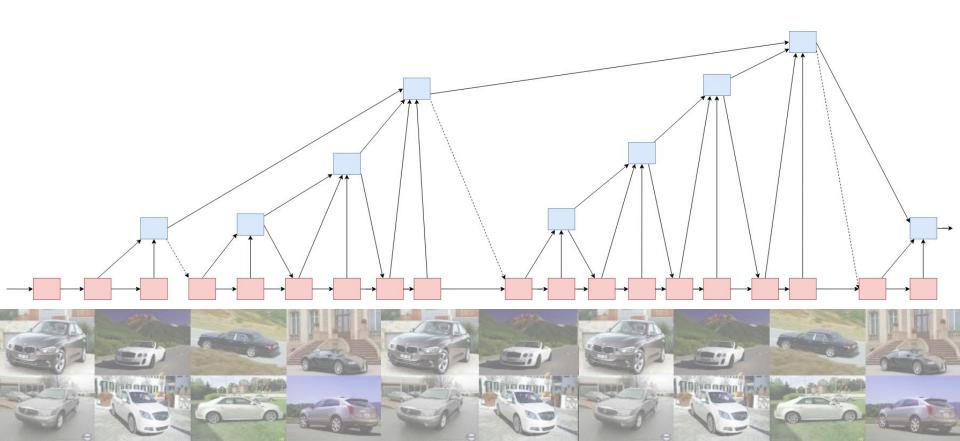
Total classes : 196

• Training images: 8,144

Testing images: 8,041

Classes format : Make, Model, Year
 ex. 2012 Tesla Model S or 2012 BMW M3 coupe.

Network Architecture



Preprocessing

- RandomResizedCrop
- Lighting
- RandomJitter
- RandomHorizontalFlip
- normalize



Implementation Details

- Batch size = 64
- Initial weight : pretrained-imagenet
- Optimizer : Stochastic Gradient Descent (SGD)
- Learning rate: 0.01 with decay 0.1 every 50 epochs
- Randomly crop 448x448 in resized 512×512



Result

```
=> loading checkpoint 'saved_model/best_model_1_june_1.53.pth.tar'
=> loaded checkpoint 'saved_model/best_model_1_june_1.53.pth.tar' (epoch 101 prec 93.272)
  * Prec@1 93.272 Prec@5 99.279
```

