



GluonCV

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GluonCV: A Vision Toolkit

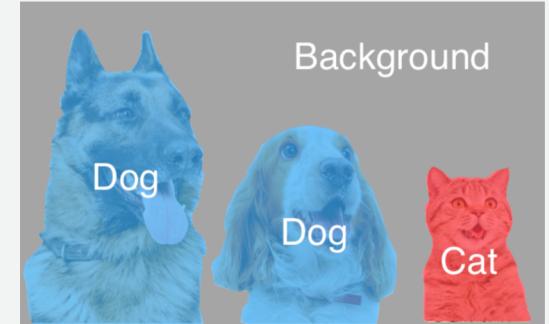
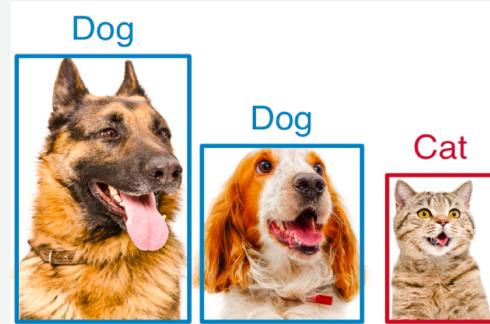
- State-of-the-Art Models
- Fast Development
- Easy Deployment
- Official Maintenance

The Best Open-Source Choice

- Pretrained Models with the Best Accuracy
- Most Comprehensive Model Zoo

Models

- Classification
- Detection
- Segmentation



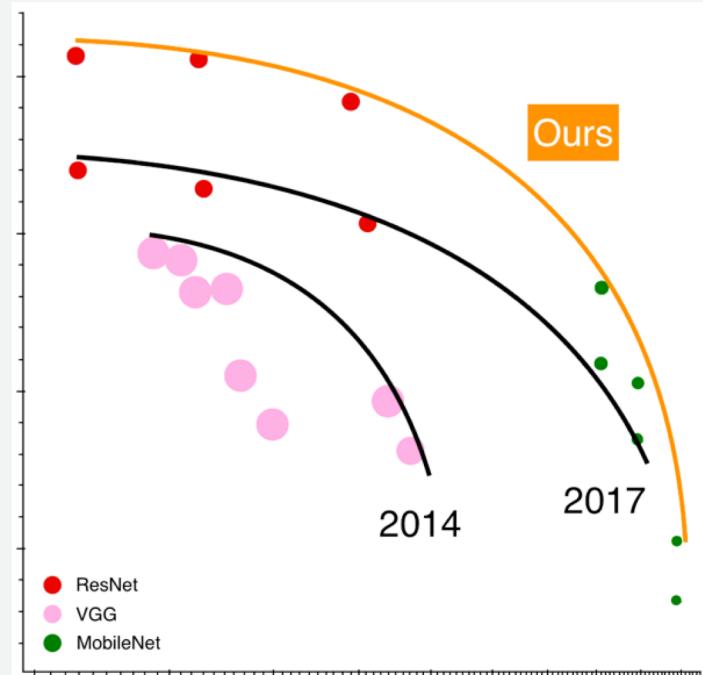
Models

- Classification

| Model | Ours | Reference |
|------------|-------|-----------|
| ResNet-50 | 79.2% | 76.2% |
| ResNet-101 | 80.5% | 77.4% |
| MobileNet | 73.3% | 70.9% |

Models

- Classification



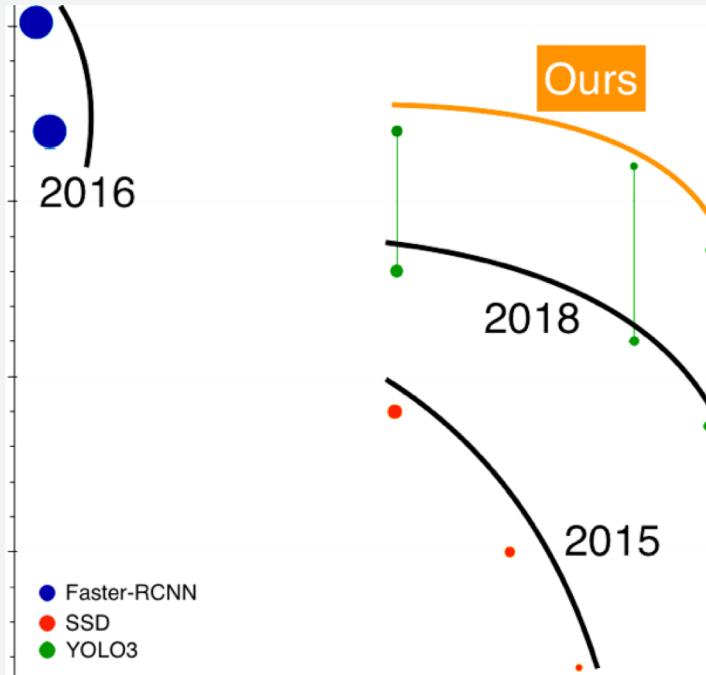
Models

- Detection

| Model | Ours | Reference |
|-------------|-------|-----------|
| Faster-RCNN | 40.1% | 39.6% |
| YOLOv3 | 37.0% | 33.0% |

Models

- Detection



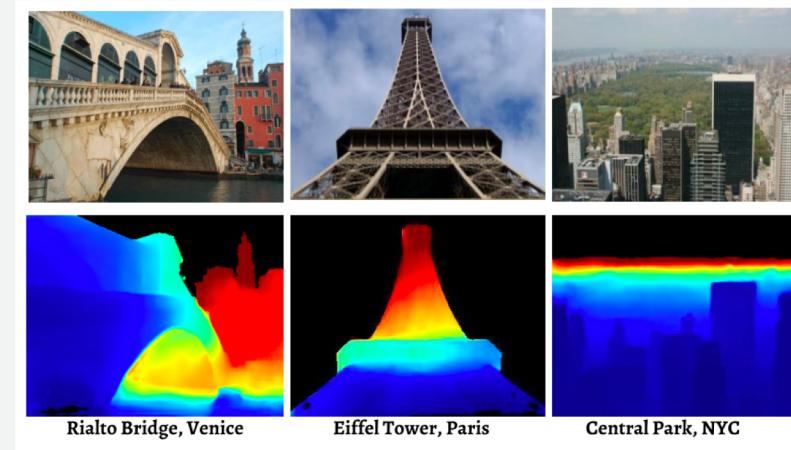
Models

- Segmentation

| Model | Ours | Reference |
|------------|-------|-----------|
| Mask-RCNN | 33.1% | 32.8% |
| DeepLab-v3 | 86.7% | 85.7% |

Models

- Available
 - Classification
 - Detection
 - Segmentation
 - Re-ID
 - GAN
- In-Development
 - Keypoint detection
 - Depth prediction



Demo

- Detection

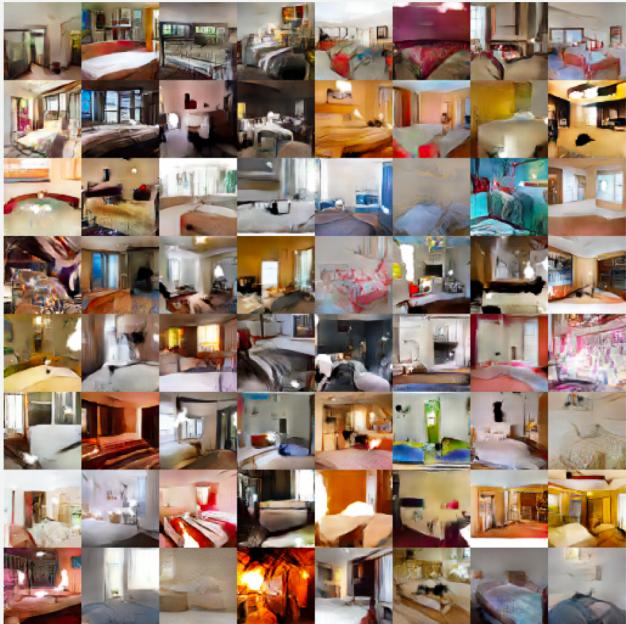


- Segmentation



Demo

- WGAN



- Person Re-ID



Getting Started

- Gluon CV: <https://gluon-cv.mxnet.io>
- Gluon NLP: <https://gluon-nlp.mxnet.io>
- MXNet: <http://beta.mxnet.io/>
- Deep Learning Book: <http://diveintodeeplearning.org>