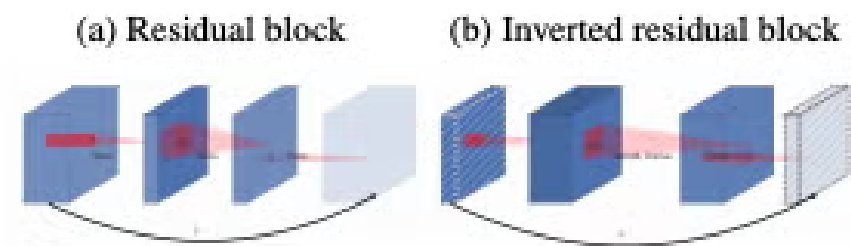


Model Hub

# MobileNet v2



| Input                    | Operator    | <i>t</i> | <i>c</i> | <i>n</i> |
|--------------------------|-------------|----------|----------|----------|
| $224^2 \times 3$         | conv2d      | -        | 32       | 1        |
| $112^2 \times 32$        | bottleneck  | 1        | 16       | 1        |
| $112^2 \times 16$        | bottleneck  | 6        | 24       | 2        |
| $56^2 \times 24$         | bottleneck  | 6        | 32       | 3        |
| $28^2 \times 32$         | bottleneck  | 6        | 64       | 4        |
| $14^2 \times 64$         | bottleneck  | 6        | 96       | 3        |
| $14^2 \times 96$         | bottleneck  | 6        | 160      | 3        |
| $7^2 \times 160$         | bottleneck  | 6        | 320      | 1        |
| $7^2 \times 320$         | conv2d 1x1  | -        | 1280     | 1        |
| $7^2 \times 1280$        | avgpool 7x7 | -        | -        | 1        |
| $1 \times 1 \times 1280$ | conv2d 1x1  | -        | k        | -        |

```
import torch
model = torch.hub.load('pytorch/vision:v0.10.0', 'mobilenet_v2', p
model.eval()
```

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```
# sample execution (requires torchvision)
from PIL import Image
from torchvision import transforms
input_image = Image.open(filename)
preprocess = transforms.Compose([
    transforms.Resize(256),
    transforms.CenterCrop(224),
    transforms.ToTensor(),
    transforms.Normalize(mean=[0.485, 0.456, 0.406], std=[0.229, 0.
])
input_tensor = preprocess(input_image)
input_batch = input_tensor.unsqueeze(0) # create a mini-batch as e

# move the input and model to GPU for speed if available
if torch.cuda.is_available():
    input_batch = input_batch.to('cuda')
    model.to('cuda')

with torch.no_grad():
    output = model(input_batch)
```

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Submitted by: PyTorch team

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