## **PYTORCH**

## HUB

Discover an u lish mo els to a re-traine mo el re ository esigne for research ex loration. Check out the mo els for Researchers, or learn How It Works.

#### Contri ute Mo els

\*This is a beta release - we will be collecting feedback and improving the PyTorch Hub over the coming months.

#### FOR RESEARCHERS —

# EXPLORE AND EXTEND MODELS FROM THE LATEST C TTING EDGE RESEARCH

#### 3D ResNet 👩 1.7k

Resnet Style Vi eo classification networks retraine on the Kinetics 400 ataset



SlowFast networks retraine on the Kinetics 400 ataset

X3D 🕥 1.7k

X3D networks retraine on the Kinetics 400 ataset

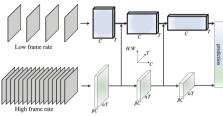


Figure 1. A SlowFast network has a low frame rate, low temporal resolution Slow pathway and a high frame rate,  $\alpha \times$  higher temporal resolution Fast pathway. The Fast pathway is lightweight by using a fraction  $(\beta, e.g., 1/8)$  of channels. Lateral connections fuse them.

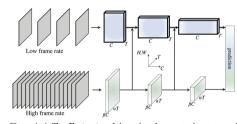


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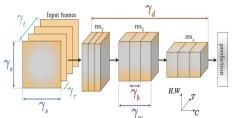


Figure 1. **X3D** networks progressively expand a 2D network across the following axes: Temporal duration  $\gamma_t$ , frame rate  $\gamma_\tau$ , spatial resolution  $\gamma_s$ , width  $\gamma_w$ , bottleneck width  $\gamma_b$ , and depth  $\gamma_d$ .

#### MiDaS 👩

MiDaS mo els for com uting relative e th from a single image.



ntsnet 👩 19

https://pytorch.org/hub/



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Reference im lementation for music source se aration



All Research Mo els (42)

#### HOW IT WORKS —

### P BLISHING MODELS

PyTorch Hu su orts u lishing re-traine mo els (mo el efinitions an re-traine weights) to a GitHu re ository y a ing a sim le hubconf.py file.

#### LOADING MODELS

sers can loa re-traine mo els using torch.hub.load() API.

Here's an exam le showing how to loa the resnet18 entry oint from the pytorch/vision re o.

model = torch.hub.load('pytorch/vision', 'resnet18',
pretrained=True)

See Full Documentation

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