



Image caption:

DeepLab is a state-of-art deep learning model for semantic image segmentation, where the goal is to assign semantic labels (e.g., person, dog, cat and so on) to every pixel in the input image.

The above image describe the work flow of DeepLabv3+.\cite{deeplabv3plus2018}

DeepLabv3+ extends DeepLabv3 by employing a encoderdecoder structure.

The encoder module encodes multi-scale contextual information by applying atrous convolution at multiple scales, while the simple yet effective decoder module refines the segmentation results along object boundaries.

cite:

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@inproceedings{deeplabv3plus2018,
  title={Encoder-Decoder with Atrous Separable Convolution for Semantic Image Segmentation},
  author={Liang-Chieh Chen and Yukun Zhu and George Papandreou and Florian Schroff and Hartwig Adam},
  booktitle={ECCV},
  year={2018}
}
```

paper url:

<https://arxiv.org/pdf/1802.02611.pdf>