

pre-defined: model architectures, data-sets, hyperparameters, optimizers, etc. Note that it is modular, as it implements a standard tensor-to-tensor interface.

```
t2t-trainer \  
  --data_dir=$DATA_DIR \  
  --problems=$PROBLEM \  
  --model=$MODEL \  
  --hparams_set=$HPARAMS \  
  --output_dir=$TRAIN_DIR
```

In the command you can set the model, the hyperparameters, the dataset, etc. and run the training to check how it performs.

The installation is very easy, consisting of just 3 lines.

# Assumes tensorflow or tensorflow-gpu installed

pip install tensor2tensor

# Installs with tensorflow-gpu requirement

pip install tensor2tensor[tensorflow\_gpu]

# Installs with tensorflow (cpu) requirement

pip install tensor2tensor[tensorflow]

## References:

1. Olah & Carter, "Attention and Augmented Recurrent Neural Networks", Distill, 2016. [Link 1](#), [Link 2](#)
2. [Github](#)
3. [One Model To Learn Them All](#)

We have reviewed the tools and research developments that made the Transformer possible, as well as applications and code snippets where appropriate: now, even readers with little or no background have read an overview of the field.