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Models (PyTorch)

Install the Transformers, Datasets, and Evaluate libraries to run this notebook.

```
[ ] !pip install datasets evaluate transformers[sentencepiece]
```

```
[ ] from transformers import BertConfig, BertModel
```

```
# Building the config
config = BertConfig()
```

```
# Building the model from the config
model = BertModel(config)
```

```
[ ] print(config)
```

```
BertConfig {
  [...]
  "hidden_size": 768,
  "intermediate_size": 3072,
  "max_position_embeddings": 512,
  "num_attention_heads": 12,
  "num_hidden_layers": 12,
  [...]
}
```

```
[ ] from transformers import BertConfig, BertModel
```

```
config = BertConfig()
model = BertModel(config)
```

```
# Model is randomly initialized!
```

```
[ ] from transformers import BertModel
```

```
model = BertModel.from_pretrained("bert-base-uncased")
```

```
[ ] model.save_pretrained("directory_on_my_computer")
```

```
[ ] sequences = ["Hello!", "Cool.", "Nice!"]
```

```
[ ] encoded_sequences = [
    [101, 7592, 999, 102],
    [101, 4658, 1012, 102],
    [101, 3835, 999, 102],
]
```

```
[ ] import torch
```

```
model_inputs = torch.tensor(encoded_sequences)
```

```
[ ] output = model(model_inputs)
```