



阅读排行榜

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评论排行榜

- 1. 配置、使用transformers包(3)

推荐排行榜

- 1. 配置、使用transformers包(2)

3、加载预训练权重和词表

```
UNCASED = './bert-base-uncased'  
bert = BertModel.from_pretrained(UNCASED)
```

注意：加载预训练权重时需要下载好预训练的权重文件，一般来说，当缓存文件中没有所需文件时(第一次使用)，只要网络没有问题，就会自动下载。当网络出现问题的时候，就需要手动下载预训练权重了。

当缓存中不存在所需文件时，一般会出现提示：  
bert-base-uncased-pytorch\_model.bin not found in cache

# 二、手动下载、本地加载预训练权重

在使用transformers的时候，由于Bert、XLNet的文件都在AWS上存储，transformers的默认下载地址指向的是AWS，因此在国内下载速度非常慢。需要我们自己手动下载。

## 1、下载.txt、.json、.bin文件到本地

以Bert为例，相关的.bin文件(预训练权重)下载地址如下所示：

```
BERT_PRETRAINED_MODEL_ARCHIVE_MAP = {  
    'bert-base-uncased': "https://s3.amazonaws.com/models.huggingface.co/bert/bert-base-uncased-pytorch_model.bin",  
    'bert-large-uncased': "https://s3.amazonaws.com/models.huggingface.co/bert/bert-large-uncased-pytorch_model.bin",  
    'bert-base-cased': "https://s3.amazonaws.com/models.huggingface.co/bert/bert-base-cased-pytorch_model.bin",  
    'bert-large-cased': "https://s3.amazonaws.com/models.huggingface.co/bert/bert-large-cased-pytorch_model.bin",  
    'bert-base-multilingual-uncased':  
        "https://s3.amazonaws.com/models.huggingface.co/bert/bert-base-multilingual-uncased-pytorch_model.bin",  
    'bert-base-multilingual-cased':  
        "https://s3.amazonaws.com/models.huggingface.co/bert/bert-base-multilingual-cased-pytorch_model.bin",  
    'bert-base-chinese': "https://s3.amazonaws.com/models.huggingface.co/bert/bert-base-chinese-pytorch_model.bin",  
    'bert-base-german-cased':  
        "https://s3.amazonaws.com/models.huggingface.co/bert/bert-base-german-cased-pytorch_model.bin",  
    'bert-large-uncased-whole-word-masking':  
        "https://s3.amazonaws.com/models.huggingface.co/bert/bert-large-uncased-whole-word-masking-pytorch_model.bin",  
    'bert-large-cased-whole-word-masking':  
        "https://s3.amazonaws.com/models.huggingface.co/bert/bert-large-cased-whole-word-masking-pytorch_model.bin",  
    'bert-large-uncased-whole-word-masking-finetuned-squad':  
        "https://s3.amazonaws.com/models.huggingface.co/bert/bert-large-uncased-whole-word-masking-finetuned-squad-pytorch_model.bin",  
    'bert-large-cased-whole-word-masking-finetuned-squad':  
        "https://s3.amazonaws.com/models.huggingface.co/bert/bert-large-cased-whole-word-masking-finetuned-squad-pytorch_model.bin",  
    'bert-base-cased-finetuned-mrpc':  
        "https://s3.amazonaws.com/models.huggingface.co/bert/bert-base-cased-finetuned-mrpc-pytorch_model.bin",  
    'bert-base-german-dbmdz-cased':  
        "https://s3.amazonaws.com/models.huggingface.co/bert/bert-base-german-dbmdz-cased-pytorch_model.bin",  
    'bert-base-german-dbmdz-uncased':  
        "https://s3.amazonaws.com/models.huggingface.co/bert/bert-base-german-dbmdz-uncased-pytorch_model.bin",  
}
```

若需要下载.json文件，则下载地址为：

```

BERT_PRETRAINED_CONFIG_ARCHIVE_MAP = {
    'bert-base-uncased': "https://s3.amazonaws.com/models.huggingface.co/bert/bert-base-uncased-config.json",
    'bert-large-uncased': "https://s3.amazonaws.com/models.huggingface.co/bert/bert-large-uncased-config.json",
    'bert-base-cased': "https://s3.amazonaws.com/models.huggingface.co/bert/bert-base-cased-config.json",
    'bert-large-cased': "https://s3.amazonaws.com/models.huggingface.co/bert/bert-large-cased-config.json",
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    'bert-large-uncased-whole-word-masking': "https://s3.amazonaws.com/models.huggingface.co/bert/bert-large-uncased-whole-word-masking-config.json",
    'bert-large-cased-whole-word-masking': "https://s3.amazonaws.com/models.huggingface.co/bert/bert-large-cased-whole-word-masking-config.json",
    'bert-large-uncased-whole-word-masking-finetuned-squad': "https://s3.amazonaws.com/models.huggingface.co/bert/bert-large-uncased-whole-word-masking-finetuned-squad-config.json",
    'bert-large-cased-whole-word-masking-finetuned-squad': "https://s3.amazonaws.com/models.huggingface.co/bert/bert-large-cased-whole-word-masking-finetuned-squad-config.json",
    'bert-base-cased-finetuned-mrpc': "https://s3.amazonaws.com/models.huggingface.co/bert/bert-base-cased-finetuned-mrpc-config.json",
    'bert-base-german-dbmdz-cased': "https://s3.amazonaws.com/models.huggingface.co/bert/bert-base-german-dbmdz-cased-config.json",
    'bert-base-german-dbmdz-uncased': "https://s3.amazonaws.com/models.huggingface.co/bert/bert-base-german-dbmdz-uncased-config.json",
}

```

.txt相关文件(词表文件)下载地址如下:

```




PRETRAINED_VOCAB_FILES_MAP = {
    'vocab_file':
        {
            'bert-base-uncased': "https://s3.amazonaws.com/models.huggingface.co/bert/bert-base-uncased-vocab.txt",
            'bert-large-uncased': "https://s3.amazonaws.com/models.huggingface.co/bert/bert-large-uncased-vocab.txt",
            'bert-base-cased': "https://s3.amazonaws.com/models.huggingface.co/bert/bert-base-cased-vocab.txt",
            'bert-large-cased': "https://s3.amazonaws.com/models.huggingface.co/bert/bert-large-cased-vocab.txt",
            'bert-base-multilingual-uncased': "https://s3.amazonaws.com/models.huggingface.co/bert/bert-base-multilingual-uncased-vocab.txt",
            'bert-base-multilingual-cased': "https://s3.amazonaws.com/models.huggingface.co/bert/bert-base-multilingual-cased-vocab.txt",
            'bert-base-chinese': "https://s3.amazonaws.com/models.huggingface.co/bert/bert-base-chinese-vocab.txt",
            'bert-base-german-cased': "https://int-deepset-models-bert.s3.eu-central-1.amazonaws.com/pytorch/bert-base-german-cased-vocab.txt",
            'bert-large-uncased-whole-word-masking': "https://s3.amazonaws.com/models.huggingface.co/bert/bert-large-uncased-whole-word-masking-vocab.txt",
            'bert-large-cased-whole-word-masking': "https://s3.amazonaws.com/models.huggingface.co/bert/bert-large-cased-whole-word-masking-vocab.txt",
            'bert-large-uncased-whole-word-masking-finetuned-squad': "https://s3.amazonaws.com/models.huggingface.co/bert/bert-large-uncased-whole-word-masking-finetuned-squad-vocab.txt",
            'bert-large-cased-whole-word-masking-finetuned-squad': "https://s3.amazonaws.com/models.huggingface.co/bert/bert-large-cased-whole-word-masking-finetuned-squad-vocab.txt",
            'bert-base-cased-finetuned-mrpc': "https://s3.amazonaws.com/models.huggingface.co/bert/bert-base-cased-finetuned-mrpc-vocab.txt",
            'bert-base-german-dbmdz-cased': "https://s3.amazonaws.com/models.huggingface.co/bert/bert-base-german-dbmdz-cased-vocab.txt",
            'bert-base-german-dbmdz-uncased': "https://s3.amazonaws.com/models.huggingface.co/bert/bert-base-german-dbmdz-uncased-vocab.txt",
        }
    }

```

```
vocab.txt",
    }
}
```

# 本地使用预训练的权重文件

假设我们下载好了如下三个文件：

	bert-base-uncased-config.json	2019/11/27 16:23	JSON 文件	1 KB
	bert-base-uncased-pytorch_model.bin	2019/11/26 17:00	BIN 文件	430,150 KB
	bert-base-uncased-vocab.txt	2019/11/27 16:23	文本文档	227 KB

首先我们建立一个文件夹，命名为bert-base-uncased，然后将这个三个文件放入这个文件夹，并且对文件进行重命名，重命名时将bert-base-uncased-去除即可。

假设我们训练文件夹名字为 train.py，我们需要将上面的bert-base-uncased文件夹放到与train.py同级的目录下面。

若不改名以及调整文件夹位置将会出现：

vocab.txt not found; pytorch\_model.bin not found; Model name 'xxx/pytorch\_model.bin ' was not found in model name list等错误。

之后使用下面的代码进行测试即可：

```
UNCASED = './bert-base-uncased'
VOCAB = 'vocab.txt'
tokenizer=BertTokenizer.from_pretrained(os.path.join(UNCASED, VOCAB))
bert = BertModel.from_pretrained(UNCASED)
```

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