

# Tutorial zur Installation und Starten der Perceptilabs Programmierumgebung

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## 1. Installation von Perceptilabs

Achtung: Evtl. kann es bei der Installation zu Problemen kommen, wenn zusätzlich eine weitere (neuere) Python-Version auf dem Computer installiert ist.

Wichtig: Die Powershell sollte als Administrator ausgeführt werden.

### Installation von Perceptilabs

#### 1. Deaktivieren der Anaconda Umgebung

```
PS C:\Users\Tobias> conda deactivate
```

#### 2. Installation von Python 3.7

```
PS C:\Users\Tobias> conda create -n pi python=3.7
Collecting package metadata (current_repodata.json): done
Solving environment: done

## Package Plan ##

  environment location: C:\Users\Tobias\anaconda3\envs\pi
  added / updated specs:
    - python=3.7

The following NEW packages will be INSTALLED:

ca-certificates pkgs/main/win-64::ca-certificates-2020.12.8-haa95532_0
certifi          pkgs/main/win-64::certifi-2020.12.5-py37haa95532_0
openssl         pkgs/main/win-64::openssl-1.1.1i-h2b6ff1b_0
pip             pkgs/main/win-64::pip-20.3.3-py37haa95532_0
python          pkgs/main/win-64::python-3.7.5-h60c2a7f_0
setuptools      pkgs/main/win-64::setuptools-51.0.0-py37haa95532_2
sqlite          pkgs/main/win-64::sqlite-3.33.0-h2ad988b_0
vc              pkgs/main/win-64::vc-14.2-h21ff451_1
vs2015_runtime pkgs/main/win-64::vs2015_runtime-14.27.29016-h5e8377_2
wheel           pkgs/main/noarch::wheel-0.36.2-pyhd3eb1b9_0
wincertstore    pkgs/main/win-64::winertstore-0.2-py37_0
zlib            pkgs/main/win-64::zlib-1.2.11-h62dc097_4

Proceed ([y]/n)? y
```

### Mit Ja bestätigen

```
Proceed ([y]/n)? y
Preparing transaction: done
Verifying transaction: done
Executing transaction: done
#
# To activate this environment, use
#
#   $ conda activate pi
#
# To deactivate an active environment, use
#
#   $ conda deactivate
```

#### 3. Aktivieren der Perceptilabs-Umgebung

```
PS C:\Users\Tobias> conda activate pi
```

## 4. Installation von Perceptilabs

```
(pl) PS C:\Users\tobias> pip install perceptilabs
Collecting perceptilabs
  Downloading perceptilabs-0.11.5-cp37-cp37m-win_amd64.whl (26.8 MB)
    | 26.8 MB 209 kb/s
Requirement already satisfied: certifi>=2020.4.5.1 in c:\users\tobias\anaconda3\envs\pillib\site-packages (from perceptilabs) (2020.12.5)
Collecting azure-eventhub>=5.1.0
  Downloading azure-eventhub-5.1.0-py2.py3-none-any.whl (97 kB)
    | 97 kB 2.1 MB/s
Collecting azure-storage>=0.36.0
  Downloading azure-storage-0.36.0-py2.py3-none-any.whl (190 kB)
    | 190 kB ...
Collecting colorama>=0.4.3
  Downloading colorama-0.4.3-py2.py3-none-any.whl (15 kB)
Collecting jsonschema>=3.2.0
  Downloading jsonschema-3.2.0-py2.py3-none-any.whl (56 kB)
    | 56 kB 4.1 MB/s
Requirement already satisfied: setuptools in c:\users\tobias\anaconda3\envs\pillib\site-packages (from jsonschema>=3.2.0->perceptilabs) (51.0.0.post20201207)
Collecting mixpanel>=4.7.0
  Downloading mixpanel-4.7.0-py2.py3-none-any.whl (8.2 kB)
Collecting pillow>=7.0.0
  Downloading pillow-7.0.0-cp37-cp37m-win_amd64.whl (2.0 MB)
    | 2.0 MB 6.8 MB/s
Collecting sentry-sdk>=0.14.3
  Downloading sentry_sdk-0.14.3-py2.py3-none-any.whl (183 kB)
    | 183 kB 6.4 MB/s
Collecting tensorflow>=1.15
  Downloading tensorflow-1.15.0-cp37-cp37m-win_amd64.whl (295.1 MB)
    | 295.1 MB 6.4 kB/s
Requirement already satisfied: wheel>=0.26 in c:\users\tobias\anaconda3\envs\pillib\site-packages (from tensorflow>=1.15->perceptilabs) (0.36.2)
Collecting gast>=0.2.2
  Downloading gast-0.2.2.tar.gz (10 kB)
Collecting tensorflow-estimator>=1.15.1
  Downloading tensorflow_estimator-1.15.1-py2.py3-none-any.whl (503 kB)
    | 503 kB 3.3 MB/s
Collecting urllib3>=1.25.10
  Downloading urllib3-1.25.10-py2.py3-none-any.whl (127 kB)
    | 127 kB ...
Collecting absl-py>=0.7.0
  Using cached absl_py-0.11.0-py3-none-any.whl (127 kB)
Collecting asgiref>=3.2.10
  Downloading asgiref-3.3.1-py3-none-any.whl (19 kB)
Collecting astor>=0.6.0
  Downloading astor-0.8.1-py2.py3-none-any.whl (27 kB)
Collecting attrs>=17.4.0
  Downloading attrs-20.3.0-py2.py3-none-any.whl (49 kB)
    | 49 kB 1.5 MB/s
Collecting azure-common>=1.1.5
  Downloading azure_common-1.1.26-py2.py3-none-any.whl (12 kB)
Collecting azure-core>=1.0.0-rc1.5.0
  Downloading azure_core-1.0.0-py2.py3-none-any.whl (124 kB)
    | 124 kB 6.4 MB/s
Collecting azure-nspkg>=2.0.0
  Downloading azure_nspkg-3.0.2-py3-none-any.whl (1.5 kB)
Collecting blessings>=1.7
  Downloading blessings-1.7-py3-none-any.whl (18 kB)
Collecting boltons>=19.3.0
  Downloading boltons-20.2.1-py2.py3-none-any.whl (170 kB)
    | 170 kB 0.4 MB/s
Collecting boto>=2.49.0
  Downloading boto-2.49.0-py2.py3-none-any.whl (1.4 MB)
```

## 2. Starten von Perceptilabs

### 1. Aktivieren der Perceptilabs-Umgebung

```
PS C:\Users\tobias> conda activate pl
```

### 2. Starten von Perceptilabs

```
(pl) PS C:\Users\tobias> perceptilabs
Perceptilabs: Your environment does not have atari.py installed, so some functionality may not be available
Perceptilabs: To install it, please follow the directions at https://github.com/Kojoley/atari.py and then install gym through 'pip install gym[atari]'
INFORMATION: Es konnten keine Dateien mit den angegebenen
Pustern gefunden werden.
Perceptilabs: Your environment does not have git installed, so interactions with GitHub will not be available
Perceptilabs: Starting
Perceptilabs: Waiting for services to listen on these ports:
Perceptilabs:   kernel on port 5000
Perceptilabs: Waiting for services to listen on these ports:
Perceptilabs:   kernel on port 5000
Perceptilabs: Waiting for services to listen on these ports:
Perceptilabs:   kernel on port 5000
Perceptilabs: Perceptilabs Started
Perceptilabs: Perceptilabs is running at http://localhost:8888/?token=f7hab956_r06fZDCHZn90LVakIDThRAauQKX-46PC-Y
Perceptilabs: Use Control + C to stop this server and shut down all Perceptilabs processes.
```

Perceptilabs durch Drücken von strg + c beenden