

api_entwurf

December 6, 2018

1 PyVerm API Entwurf

1.1 Station auf Punkt

```
In [ ]: import pyverm
```

```
p100 = pyverm.Point(2600000.000, 1200000.000, 500.00)
p132 = pyverm.Point(2600456.000, 1200780.000, 505.00)
p155 = pyverm.Point(2602354.000, 1202541.000, 515.00)
```

```
station_p100 = pyverm.Station(standpoint=p100)
station_p100.add_target(p132, 132.4567, 600.00)
station_p100.add_target(p155, direction=199.4727, distance=895.06)
station_p100.add_target((2600453.2, 1202541.25), 310.0000, 1200.48)
station_p100.abriss(report=True) #report=True -> Protokolliert berechnung im Protokoll
print(station_p100.orientierung)
```

1.2 Freie Station

```
In [ ]: import pyverm
```

```
point_db = pyverm.PointDatabase()
point_db.add_point(100, 2600000.000, 1200000.000, 500.00)
point_db.add_point(number=132, y=2600456.000, x=1200780.000, z=505.00)
point_db.add_point(number=155, 2602354.000, 1202541.000, 515.00)
```

```
station_p999 = pyverm.Station()
station_p999.add_target(point_db[100], 132.4567, 600.00)
station_p999.add_target(point_db["132"], direction=199.4727, distance=895.06)
station_p999.add_target(point_db.155, 199.4727, 895.06)
station_p999.add_target((2600453.2, 1202541.25), 310.0000, 1200.48)
station_p999.free_station(report=True) #report=True -> Protokolliert berechnung im Protokoll
print(station_p999.standpoint)
print(station_p999.standpoint)
```

1.3 Point DB

```
In [ ]: import pyverm

point_db = pyverm.PointDatabase()

point_db.from_csv("punkte.csv")  #punkte importieren

point_db.add_point(100, 2600000.000, 1200000.000, 500.00)
point_db.add_point(number=132, y=2600456.000, x=1200780.000, z=505.00)
point_db.add_point(number=155, 2602354.000, 1202541.000, 515.00)

point_db.delete("gp1")

point_db.to_koo("punkte.koo")  #punkte exportieren
```

1.4 Report

```
In [ ]: import pyverm

pyverm.report.clear()  # leert Protokolldatei

print(pyverm.report)  # druckt protokolldatei

pyverm.report.save("berechnungen.txt")  #speichert protokolldatei
```