## analysis

May 8, 2023

## 1 Modules

```
[]: import pandas as pd
```

## 2 Data

```
[ ]: data = pd.read_csv("data.txt")
  data
```

```
[]: m(g) VHCl(mL) VNaOH(mL)
0 0.1 20 6.7
1 0.1 20 7.2
```

## 3 Retrotitulation

```
CaCO_3 + 2HCl \rightarrow CaCl_2 + H_2O + CO_2 HCl + NaOH \rightarrow NaCl + H_2O
```

```
[]: 'mass CaCO3 = (0.065 +- 0.002) g, % concentration = (65 +- 2)%'
```