Polars cheat sheet





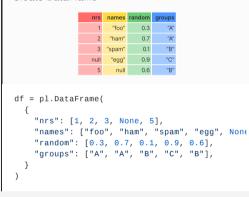
General



Creating/reading DataFrames

import polars as pl

Create DataFrame



```
Read parquet

df = pl.read_parquet("path.parquet")
```

Expressions

```
Polars expressions can be performed in sequence.
This improves readability of code.
```

```
df \
    .filter(pl.col("nrs") < 4) \
    .groupby("groups") \
    .agg(pl.all().sum())</pre>
```

Subset Observations - rows

```
# Filter: Extract rows that meet logical criter
df.filter(pl.col("random") > 0.5)
df.filter(
    (pl.col("groups") == "B")
    & (pl.col("random") > 0.5)
)

# Sample
# Randomly select fraction of rows.
df.sample(frac=0.5)

# Randomly select n rows.
df.sample(n=2)

# Select first n rows
df.head(n=2)

# Select last n rows.
df.tail(n=2)
```

Subset Variables - columns

```
# Select multiple columns with specific names.
df.select(["nrs", "names"])

# Select columns whose name matches regex.
df.select(pl.col("^n.*$"))
```

Subsets - rows and columns

```
# Select rows 2-4.
df[2:4, :]

# Select columns in positions 1 and 3
# (first column is 0).
df[:, [1, 3]]

# Select rows meeting logical condition,
# and only the specific columns.
df[df["random"] > 0.5, ["names", "groups"]]
```

Reshaping Data – Change layout, sorting, renaming



