

# [320] Regression 2

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# Pipelines

feature DataFrame

fruit	weight
apple	1
orange	2
apple	3



**estimator**

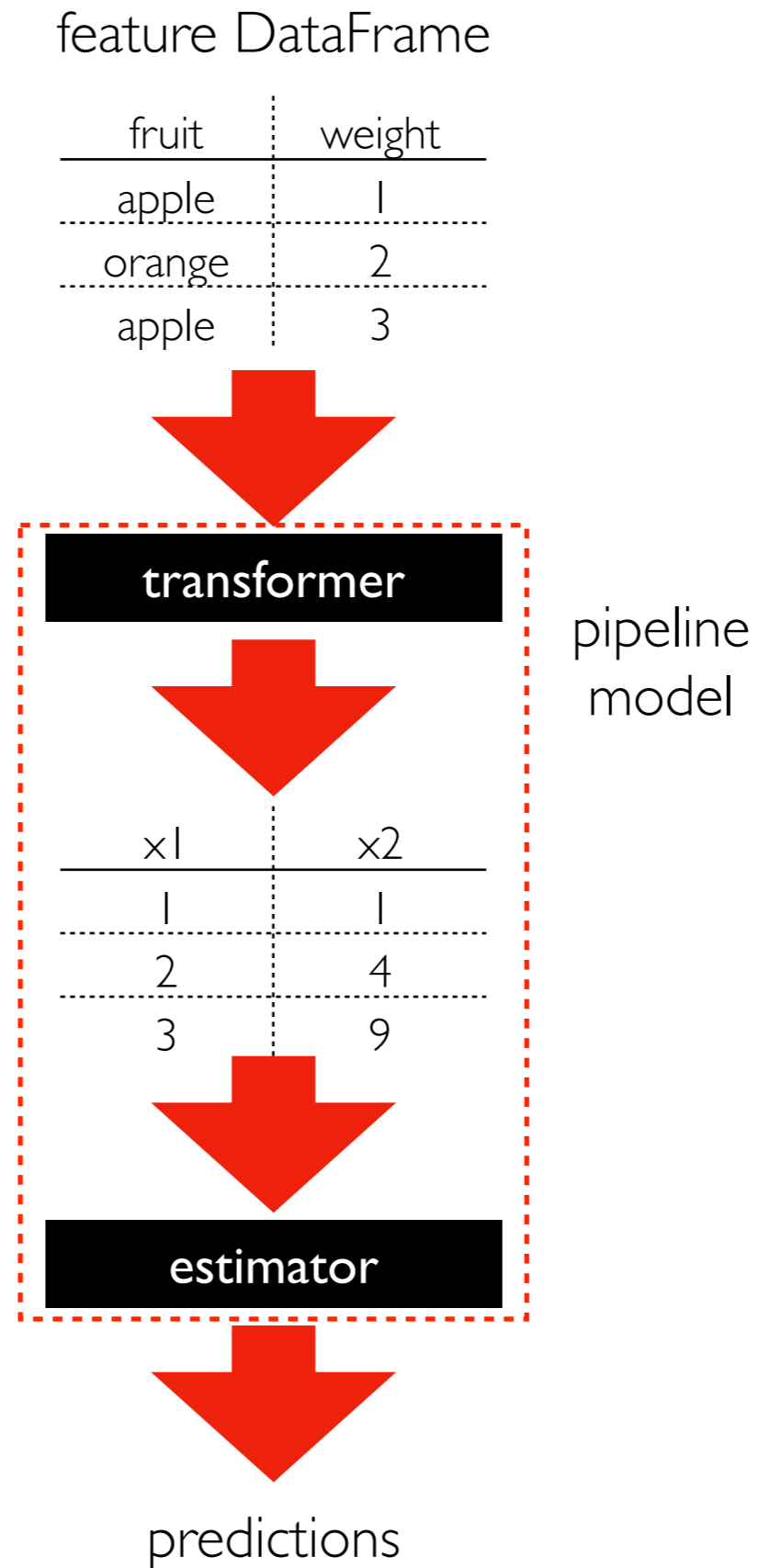
simple  
model



predictions

# Pipelines

**pipeline** applies transformers in **sequence** before estimation



# Pipelines

feature DataFrame

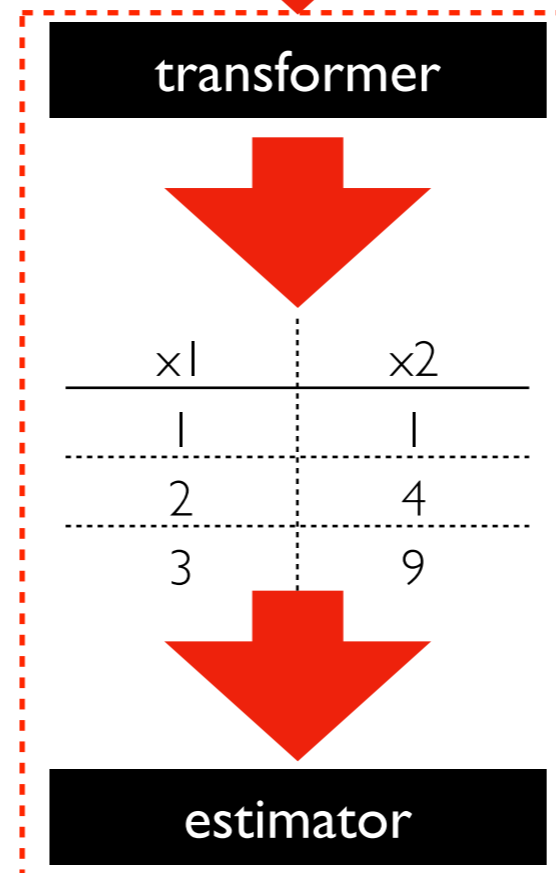
fruit	weight
apple	1
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transformers:

- PolynomialFeatures
- OneHotEncoder
- StandardScaler
- KMeans
- PCA
- ColumnTransformer

estimators:

- LinearRegression
- LogisticRegression



pipeline  
model

predictions

# ColumnTransformer

feature DataFrame

fruit	weight
apple	1
orange	2
apple	3

**ColumnTransformer** applies one or more transformers in **parallel** before next step

