How to decide which **transformer** to use for a feature?

Are your feature values numbers?

Yes

No

Is there a reasonable lower and upper bound for the values?

Are the categories ordinal (can they be ordered)?

Yes

No

Yes

No

MinMaxScaler or StandardScaler

StandardScaler

OrdinalEncoder

OneHotEncoder
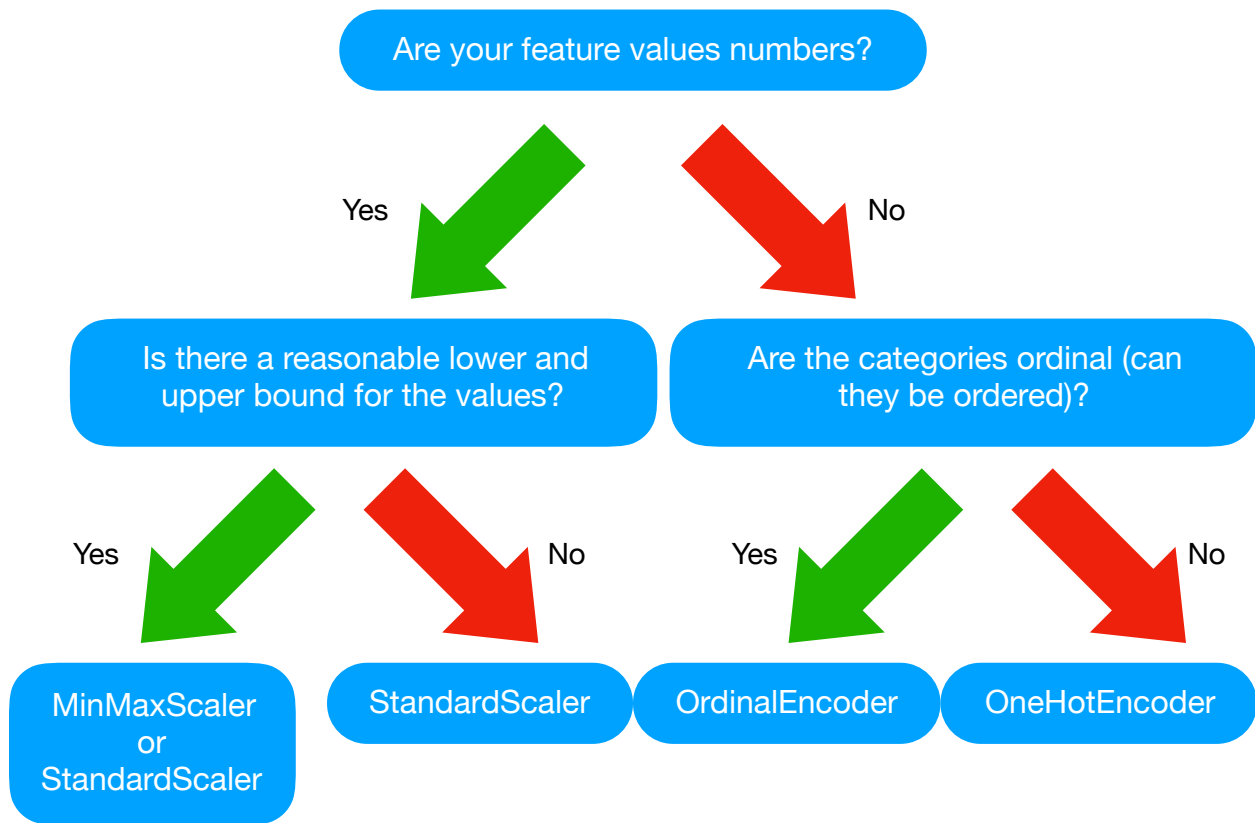
The **LabelEncoder** should only be used if you work on a classification problem and the unique values of your target variable are not integers in the range of 0 to n_classes-1. Two examples: 1) the target variable contains strings (e.g., '<50k' and '>50k' or 'sick' and 'healthy'), 2) the target variable contains integers but not in the range of 0 to n_classes-1.