

# WHAT IF WE ADD PREPROCESSING?

```
1 lm_spec = LinearRegression()  
2 log_tf = FunctionTransformer(log) ← Preprocessing decision made here  
3  
4 pipeline = make_pipeline(  
5     log_tf,  
6     lm_spec  
7 )  
8  
9 pipeline.fit(X = penguins[["bill_length_mm", "bill_depth_mm"]],  
10             y = penguins["body_mass_g"])
```

Predictor inclusion decision made here

The diagram illustrates decision points in the pipeline. A blue arrow points to the `FunctionTransformer(log)` step, labeled "Preprocessing decision made here". Two red arrows point to the feature names `"bill_length_mm"` and `"bill_depth_mm"` in the `fit` method call, labeled "Predictor inclusion decision made here".



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```
1 lm_spec <- linear_reg()
2
3 pens_rec <- recipe(body_mass_g ~ bill_length_mm + bill_depth_mm,
4                     data = penguins) %>%
5     step_log(all_nominal_predictors())
6
7 workflow() %>%
8     add_model(lm_spec) %>%
9     add_recipe(pens_rec) %>%
10    fit(penguins)
```