```
FeatureData
                                          FeatureSelection
                                                                                Training
X test
                                          X test select
                                                                                  allowed params
X_train
                                          X train select
                                                                                df pred
allowed params
                                           allowed params
                                                                                df pred full
base dir data
                                          df fs params
                                                                                df test
date tolerance
                                          labels x select
                                                                                df_test_full
df X
                                          model_fs
                                                                                df tune
df_canopy_cover_pct
                                          model fs name
                                                                                n_jobs tune
df cs
                                          model fs params adjust max
                                                                                param_grid
df obs_tissue
                                          model_fs_params_adjust_min
                                                                                print out train
df petiole no3 ppm
                                          model fs params feats max
                                                                                rank scoring
df tuber biomdry Mgha
                                          model fs params feats min
                                                                                refit
df tuber biomfresh Mgha
                                          model_fs_params_set
                                                                                regressor
df tuber_n_kgha
                                          n feats
                                                                                regressor key
df_tuber_n_pct
                                          n linspace
                                                                                regressor name
df_vine_biomdry_Mgha
                                          print out fs
                                                                                regressor params
df vine n kgha
                                          rank_x_select
                                                                                 scoring
df vine n pct
df_wholeplant_biomdry_Mgha
                                           init
                                                                                  init
                                           f feat n df
df wholeplant n kgha
                                                                                 error
df_wholeplant_n_pct
                                          _f_opt_n_feats
                                                                                 filter test results
                                                                                 fit_all data
df wx
                                          find features max
df y
                                          find features min
                                                                                 get df test cols
dir_results
                                          _lasso_fs_df
                                                                                 get df tune cols
fname_cropscan
                                          params adjust
                                                                                 get test results
fname_obs_tissue
                                           _set_attributes_fs
                                                                                 _get_tune_results
fname wx
                                           set model fs
                                                                                 _get_uid
ground truth measure
                                          set params from dict fs
                                                                                 _param_grid_add_key
ground truth tissue
                                           set params from kwargs fs
                                                                                 set attributes train
group feats
                                          fs find params
                                                                                 set params from dict train
impute method
                                          fs_get_X_select
                                                                                 set_params_from_kwargs_train
join info
                                                                                 set_regressor
                                                                                 tune_grid_search
label y
                                       object
labels id
                                                                                train
labels x
                                                    Lasso
labels_y_id
n repeats
n splits
print out fd
                                            JoinTables
random seed
stratify
                                             allowed params
stratify_test
                                            base dir data
stratify_train
                                            cols require
test size
                                            df dates
train test
                                            df exp
y_test
                                            df n apps
y_train
                                            df n crf
                                            df trt
 init
                                            df wx
_get_X_and_y
                                            fnames
_get_labels_x
                                            msg_require
get random seed
get response df
                                             init
_impute_missing_data
                                             check_requirements
join group feats
                                             check requirements custom
kfold repeated stratified print
                                            cr rate ntd
load tables
                                            read dfs
save df X y
                                            set attributes jt
set attributes fd
                                            set params from dict jt
_set_params_from_dict_fd
                                            set params from kwargs jt
_set_params_from_kwargs_fd
                                            dae
stratify set
                                            dap
_train_test_split_df
                                            join_closest date
write to readme
                                            load tables
get feat group X y
                                            rate_ntd
kfold repeated stratified
```