Supplemental data 1: Summary of Xgboost algorithm developed

##### xgb.Booster

raw: 426.3 Kb

call:

 xgboost::xgb.train(params = list(eta = 0.0514251921126008, max\_depth = 2L,

 gamma = 0, colsample\_bytree = 1, colsample\_bynode = 0.545454545454545,

 min\_child\_weight = 23L, subsample = 1, objective = "reg:squarederror"),

 data = x$data, nrounds = 597L, watchlist = x$watchlist, verbose = 0,

 nthread = 1)

params (as set within xgb.train):

 eta = "0.0514251921126008", max\_depth = "2", gamma = "0", colsample\_bytree = "1", colsample\_bynode = "0.545454545454545", min\_child\_weight = "23", subsample = "1", objective = "reg:squarederror", nthread = "1", validate\_parameters = "TRUE"

callbacks:

 cb.evaluation.log()

# of features: 11

niter: 597

nfeatures : 11

evaluation\_log:

 iter training\_rmse

 1 0.837250

 2 0.801830

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 596 0.148870

 597 0.148825