# Intro to ROCR

The appeal of ROCR is

Using ROCR's 3 commands to produce a simple ROC plot:

pred <- prediction(predictions, labels)

perf <- performance(pred, measure = "tpr", x.measure = "fpr")

plot(perf, col=rainbow(10))

reworded:

* pred <- prediction(predictions,labels)
* perf <- performance (pred, [measures])
* plot (perf)

Updated workflow

* pred <- prediction(predictions,labels) // unchanged
* pefs <- getperformances(pred)
* ggplotroc(perfs)
  + or: ggplotroc(perfs, type)

shortest workflow

* ggplotroc(predictionlist,labels)
  + predlist - llply(predictionlist, prediction, labels)

Tradeoff: power vs simplicity, good-looking graphics

* ROCR has 28 performance measures which can be freely combined
* On first approximation, ggROCR will provide prepackaged, pretty plots
  + ROC
  + precision-recall
  + f-score

Features I'd like

* Input can be
  + A single performance list
    - plots for that performance
  + a list of performance lists
    - plots all these performances, compared