## Dog Image Task

Full Data: <https://www.kaggle.com/datasets/tongpython/cat-and-dog?resource=download>

Subset of Data: In dogs folder

Task: Open each dog image and save a greyscale copy of the image in the output folder.

Utility functions:

proc.time: Starts a timer

dir: gets file names from a folder, full.names argument gets the full file path

file.path: Turns characters into a file path

stringr:

str\_c: combines characters together

parallel package:

detectCores: tells how many cores your computer has

makeCluster: How to create clusters

clusterEvalQ: runs code in clusters

parLapply: the parallel version of lapply

stopCluster: to turn off clusters

magick package:

image\_read: function reads in images

image\_quantize: set colorspace = grey to transform images into greyscale

image\_write: how to save images

install.packages(“magick”)