Loading images

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# Loading the image labels

Consider the following directory containg six folders:

base\_dir <- "C:/Users/emiwes/Downloads/dataset-resized/dataset-resized"  
list.dirs(base\_dir,full.names = F)

## [1] "" "cardboard" "glass" "metal" "paper" "plastic"   
## [7] "trash"

In each folder, the pictures are named by number, for example cardboard1.jpg, cardboard10.jpg.

fnames <- list.files(base\_dir, full.names = TRUE,recursive = T,include.dirs = F)  
n <- fnames %>% length()  
fnames[1:5]

## [1] "C:/Users/emiwes/Downloads/dataset-resized/dataset-resized/cardboard/cardboard1.jpg"   
## [2] "C:/Users/emiwes/Downloads/dataset-resized/dataset-resized/cardboard/cardboard10.jpg"   
## [3] "C:/Users/emiwes/Downloads/dataset-resized/dataset-resized/cardboard/cardboard100.jpg"  
## [4] "C:/Users/emiwes/Downloads/dataset-resized/dataset-resized/cardboard/cardboard101.jpg"  
## [5] "C:/Users/emiwes/Downloads/dataset-resized/dataset-resized/cardboard/cardboard102.jpg"

To get the filenames, we can use regex:

labs <- gsub("(.\*)/([a-z0-9]+.jpg)", "\\2", fnames)  
labs[1:10]

## [1] "cardboard1.jpg" "cardboard10.jpg" "cardboard100.jpg" "cardboard101.jpg"  
## [5] "cardboard102.jpg" "cardboard103.jpg" "cardboard104.jpg" "cardboard105.jpg"  
## [9] "cardboard106.jpg" "cardboard107.jpg"

We extract just the class name, for example cardboard:

labs <- as\_tibble(labs)  
class\_name <- gsub("(.\*)/([a-z]+)([0-9]+).jpg", "\\2", fnames)   
labs$class\_name <- class\_name  
labs %>% head(5)

## # A tibble: 5 x 2  
## value class\_name  
## <chr> <chr>   
## 1 cardboard1.jpg cardboard   
## 2 cardboard10.jpg cardboard   
## 3 cardboard100.jpg cardboard   
## 4 cardboard101.jpg cardboard   
## 5 cardboard102.jpg cardboard

## Convert labels to numbers.

Python/numpy uses 0-based indexing. Otherwise an error will say “index 6 is out of bounds for axis” when using to\_categorical(). We can use as\_numeric() from the sjlabelled package and set start.at = 0.

library(sjlabelled)  
labs\_numeric <- as\_numeric(as.factor(labs$class\_name), start.at = 0)  
labs\_numeric %>% length()

## [1] 2527

labs\_numeric %>% unique()

## [1] 0 1 2 3 4 5

Convert the numeric vector to a matrix (2D array):

class(labs\_numeric)

## [1] "numeric"

y\_labs <- to\_categorical(labs\_numeric, num\_classes = 6)  
dim(y\_labs)

## [1] 2527 6

class(y\_labs)

## [1] "matrix" "array"

# Altwenatively:  
# labs$class\_name <- factor(labs$class\_name)  
# binarized <- model.matrix( value ~ 0 + ., data = labs, contrasts.arg = list(contrasts=F) )  
# labs <- cbind(id=labs$value, as\_tibble(binarized))   
# colnames(labs) <- gsub("class\_name","", colnames(labs) )

Now it looks as follows:

y\_labs[1:5,]

## [,1] [,2] [,3] [,4] [,5] [,6]  
## [1,] 1 0 0 0 0 0  
## [2,] 1 0 0 0 0 0  
## [3,] 1 0 0 0 0 0  
## [4,] 1 0 0 0 0 0  
## [5,] 1 0 0 0 0 0

y\_labs[1006:1010,]

## [,1] [,2] [,3] [,4] [,5] [,6]  
## [1,] 0 0 1 0 0 0  
## [2,] 0 0 1 0 0 0  
## [3,] 0 0 1 0 0 0  
## [4,] 0 0 1 0 0 0  
## [5,] 0 0 1 0 0 0

# Method A: using image\_load

## Method A, Case 1: Load a single image

The images are stored as tensors of shape (samples, height, width, color\_depth). In this case (n, 150, 150, 3), i.e. 3 color channels (RGB).

Consider the following example:

# load the first file name (cardboard1.jpg) with size 150x150 pixels  
img1 <- image\_load(fnames[1], target\_size = c(150, 150) )  
img1

## <PIL.Image.Image image mode=RGB size=150x150 at 0x28307048>

We can convert it to array as follows:

img1 <- image\_to\_array(img1)  
# 150 x 150 x 3   
dim(img1)

## [1] 150 150 3

# shows 3 color values for pixel (1,1):  
img1[1,1,]

## [1] 242 202 167

Neural networks prefer to deal with small input numbers. As such, it is typical to rescale the pixel values to a [0,1] interval by dividing the pixels by 255. The array\_reshape function does this and says to have the same dimension as before (150, 150, 3):

img1\_scaled <- array\_reshape(img1/255, c(150, 150, 3))  
dim(img1\_scaled)

## [1] 150 150 3

img1\_scaled[1,1,]

## [1] 0.9490196 0.7921569 0.6549020

We can plot the image from the tensor like this:

plot(as.raster(img1\_scaled))



## Method A, Case 2: Load multiple images

In general, we can do this procedure for a large number of pictures.

data <- array(0, c(n,150,150,3))  
for(i in 1:n){  
 img\_path <- fnames[[i]]  
 # Convert it to an array with shape (150, 150, 3)  
 img <- image\_load(img\_path, target\_size = c(150, 150))  
 img\_array <- image\_to\_array(img)  
 data[i,,,] <- array\_reshape(img\_array/255, c(150, 150, 3))  
}  
# it is a good idea to save this since it can take some time to run:  
# save(data, file="img\_arr.RData")

After running the code above and saving, the data can be re-loaded as:

# LOADS THE DATA FILE WITH ThE IMAGE ARRAYS  
load(file = "C:/Users/emiwes/Desktop/img\_arr.RData")

We can plot any image from the tensor like this, for example second image in the tensor:

plot(as.raster(data[2,,,]))



# Method B: using flow\_images\_from\_dataframe

Create a dataframe

df <- cbind( list.files(base\_dir, full.names = F, recursive = T), y\_labs) %>% as.data.frame()  
df[,c(2:7)] <- sapply(df[,c(2:7)], as.numeric)  
colnames(df) <- c("id","cardboard","glass","metal","paper","plastic","trash")  
df

## id cardboard glass metal paper plastic trash  
## 1 cardboard/cardboard1.jpg 1 0 0 0 0 0  
## 2 cardboard/cardboard10.jpg 1 0 0 0 0 0  
## 3 cardboard/cardboard100.jpg 1 0 0 0 0 0  
## 4 cardboard/cardboard101.jpg 1 0 0 0 0 0  
## 5 cardboard/cardboard102.jpg 1 0 0 0 0 0  
## 6 cardboard/cardboard103.jpg 1 0 0 0 0 0  
## 7 cardboard/cardboard104.jpg 1 0 0 0 0 0  
## 8 cardboard/cardboard105.jpg 1 0 0 0 0 0  
## 9 cardboard/cardboard106.jpg 1 0 0 0 0 0  
## 10 cardboard/cardboard107.jpg 1 0 0 0 0 0  
## 11 cardboard/cardboard108.jpg 1 0 0 0 0 0  
## 12 cardboard/cardboard109.jpg 1 0 0 0 0 0  
## 13 cardboard/cardboard11.jpg 1 0 0 0 0 0  
## 14 cardboard/cardboard110.jpg 1 0 0 0 0 0  
## 15 cardboard/cardboard111.jpg 1 0 0 0 0 0  
## 16 cardboard/cardboard112.jpg 1 0 0 0 0 0  
## 17 cardboard/cardboard113.jpg 1 0 0 0 0 0  
## 18 cardboard/cardboard114.jpg 1 0 0 0 0 0  
## 19 cardboard/cardboard115.jpg 1 0 0 0 0 0  
## 20 cardboard/cardboard116.jpg 1 0 0 0 0 0  
## 21 cardboard/cardboard117.jpg 1 0 0 0 0 0  
## 22 cardboard/cardboard118.jpg 1 0 0 0 0 0  
## 23 cardboard/cardboard119.jpg 1 0 0 0 0 0  
## 24 cardboard/cardboard12.jpg 1 0 0 0 0 0  
## 25 cardboard/cardboard120.jpg 1 0 0 0 0 0  
## 26 cardboard/cardboard121.jpg 1 0 0 0 0 0  
## 27 cardboard/cardboard122.jpg 1 0 0 0 0 0  
## 28 cardboard/cardboard123.jpg 1 0 0 0 0 0  
## 29 cardboard/cardboard124.jpg 1 0 0 0 0 0  
## 30 cardboard/cardboard125.jpg 1 0 0 0 0 0  
## 31 cardboard/cardboard126.jpg 1 0 0 0 0 0  
## 32 cardboard/cardboard127.jpg 1 0 0 0 0 0  
## 33 cardboard/cardboard128.jpg 1 0 0 0 0 0  
## 34 cardboard/cardboard129.jpg 1 0 0 0 0 0  
## 35 cardboard/cardboard13.jpg 1 0 0 0 0 0  
## 36 cardboard/cardboard130.jpg 1 0 0 0 0 0  
## 37 cardboard/cardboard131.jpg 1 0 0 0 0 0  
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## 42 cardboard/cardboard136.jpg 1 0 0 0 0 0  
## 43 cardboard/cardboard137.jpg 1 0 0 0 0 0  
## 44 cardboard/cardboard138.jpg 1 0 0 0 0 0  
## 45 cardboard/cardboard139.jpg 1 0 0 0 0 0  
## 46 cardboard/cardboard14.jpg 1 0 0 0 0 0  
## 47 cardboard/cardboard140.jpg 1 0 0 0 0 0  
## 48 cardboard/cardboard141.jpg 1 0 0 0 0 0  
## 49 cardboard/cardboard142.jpg 1 0 0 0 0 0  
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## 52 cardboard/cardboard145.jpg 1 0 0 0 0 0  
## 53 cardboard/cardboard146.jpg 1 0 0 0 0 0  
## 54 cardboard/cardboard147.jpg 1 0 0 0 0 0  
## 55 cardboard/cardboard148.jpg 1 0 0 0 0 0  
## 56 cardboard/cardboard149.jpg 1 0 0 0 0 0  
## 57 cardboard/cardboard15.jpg 1 0 0 0 0 0  
## 58 cardboard/cardboard150.jpg 1 0 0 0 0 0  
## 59 cardboard/cardboard151.jpg 1 0 0 0 0 0  
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## 79 cardboard/cardboard17.jpg 1 0 0 0 0 0  
## 80 cardboard/cardboard170.jpg 1 0 0 0 0 0  
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## 112 cardboard/cardboard2.jpg 1 0 0 0 0 0  
## 113 cardboard/cardboard20.jpg 1 0 0 0 0 0  
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## 334 cardboard/cardboard4.jpg 1 0 0 0 0 0  
## 335 cardboard/cardboard40.jpg 1 0 0 0 0 0  
## 336 cardboard/cardboard400.jpg 1 0 0 0 0 0  
## 337 cardboard/cardboard401.jpg 1 0 0 0 0 0  
## 338 cardboard/cardboard402.jpg 1 0 0 0 0 0  
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## 2171 plastic/plastic335.jpg 0 0 0 0 1 0  
## 2172 plastic/plastic336.jpg 0 0 0 0 1 0  
## 2173 plastic/plastic337.jpg 0 0 0 0 1 0  
## 2174 plastic/plastic338.jpg 0 0 0 0 1 0  
## 2175 plastic/plastic339.jpg 0 0 0 0 1 0  
## 2176 plastic/plastic34.jpg 0 0 0 0 1 0  
## 2177 plastic/plastic340.jpg 0 0 0 0 1 0  
## 2178 plastic/plastic341.jpg 0 0 0 0 1 0  
## 2179 plastic/plastic342.jpg 0 0 0 0 1 0  
## 2180 plastic/plastic343.jpg 0 0 0 0 1 0  
## 2181 plastic/plastic344.jpg 0 0 0 0 1 0  
## 2182 plastic/plastic345.jpg 0 0 0 0 1 0  
## 2183 plastic/plastic346.jpg 0 0 0 0 1 0  
## 2184 plastic/plastic347.jpg 0 0 0 0 1 0  
## 2185 plastic/plastic348.jpg 0 0 0 0 1 0  
## 2186 plastic/plastic349.jpg 0 0 0 0 1 0  
## 2187 plastic/plastic35.jpg 0 0 0 0 1 0  
## 2188 plastic/plastic350.jpg 0 0 0 0 1 0  
## 2189 plastic/plastic351.jpg 0 0 0 0 1 0  
## 2190 plastic/plastic352.jpg 0 0 0 0 1 0  
## 2191 plastic/plastic353.jpg 0 0 0 0 1 0  
## 2192 plastic/plastic354.jpg 0 0 0 0 1 0  
## 2193 plastic/plastic355.jpg 0 0 0 0 1 0  
## 2194 plastic/plastic356.jpg 0 0 0 0 1 0  
## 2195 plastic/plastic357.jpg 0 0 0 0 1 0  
## 2196 plastic/plastic358.jpg 0 0 0 0 1 0  
## 2197 plastic/plastic359.jpg 0 0 0 0 1 0  
## 2198 plastic/plastic36.jpg 0 0 0 0 1 0  
## 2199 plastic/plastic360.jpg 0 0 0 0 1 0  
## 2200 plastic/plastic361.jpg 0 0 0 0 1 0  
## 2201 plastic/plastic362.jpg 0 0 0 0 1 0  
## 2202 plastic/plastic363.jpg 0 0 0 0 1 0  
## 2203 plastic/plastic364.jpg 0 0 0 0 1 0  
## 2204 plastic/plastic365.jpg 0 0 0 0 1 0  
## 2205 plastic/plastic366.jpg 0 0 0 0 1 0  
## 2206 plastic/plastic367.jpg 0 0 0 0 1 0  
## 2207 plastic/plastic368.jpg 0 0 0 0 1 0  
## 2208 plastic/plastic369.jpg 0 0 0 0 1 0  
## 2209 plastic/plastic37.jpg 0 0 0 0 1 0  
## 2210 plastic/plastic370.jpg 0 0 0 0 1 0  
## 2211 plastic/plastic371.jpg 0 0 0 0 1 0  
## 2212 plastic/plastic372.jpg 0 0 0 0 1 0  
## 2213 plastic/plastic373.jpg 0 0 0 0 1 0  
## 2214 plastic/plastic374.jpg 0 0 0 0 1 0  
## 2215 plastic/plastic375.jpg 0 0 0 0 1 0  
## 2216 plastic/plastic376.jpg 0 0 0 0 1 0  
## 2217 plastic/plastic377.jpg 0 0 0 0 1 0  
## 2218 plastic/plastic378.jpg 0 0 0 0 1 0  
## 2219 plastic/plastic379.jpg 0 0 0 0 1 0  
## 2220 plastic/plastic38.jpg 0 0 0 0 1 0  
## 2221 plastic/plastic380.jpg 0 0 0 0 1 0  
## 2222 plastic/plastic381.jpg 0 0 0 0 1 0  
## 2223 plastic/plastic382.jpg 0 0 0 0 1 0  
## 2224 plastic/plastic383.jpg 0 0 0 0 1 0  
## 2225 plastic/plastic384.jpg 0 0 0 0 1 0  
## 2226 plastic/plastic385.jpg 0 0 0 0 1 0  
## 2227 plastic/plastic386.jpg 0 0 0 0 1 0  
## 2228 plastic/plastic387.jpg 0 0 0 0 1 0  
## 2229 plastic/plastic388.jpg 0 0 0 0 1 0  
## 2230 plastic/plastic389.jpg 0 0 0 0 1 0  
## 2231 plastic/plastic39.jpg 0 0 0 0 1 0  
## 2232 plastic/plastic390.jpg 0 0 0 0 1 0  
## 2233 plastic/plastic391.jpg 0 0 0 0 1 0  
## 2234 plastic/plastic392.jpg 0 0 0 0 1 0  
## 2235 plastic/plastic393.jpg 0 0 0 0 1 0  
## 2236 plastic/plastic394.jpg 0 0 0 0 1 0  
## 2237 plastic/plastic395.jpg 0 0 0 0 1 0  
## 2238 plastic/plastic396.jpg 0 0 0 0 1 0  
## 2239 plastic/plastic397.jpg 0 0 0 0 1 0  
## 2240 plastic/plastic398.jpg 0 0 0 0 1 0  
## 2241 plastic/plastic399.jpg 0 0 0 0 1 0  
## 2242 plastic/plastic4.jpg 0 0 0 0 1 0  
## 2243 plastic/plastic40.jpg 0 0 0 0 1 0  
## 2244 plastic/plastic400.jpg 0 0 0 0 1 0  
## 2245 plastic/plastic401.jpg 0 0 0 0 1 0  
## 2246 plastic/plastic402.jpg 0 0 0 0 1 0  
## 2247 plastic/plastic403.jpg 0 0 0 0 1 0  
## 2248 plastic/plastic404.jpg 0 0 0 0 1 0  
## 2249 plastic/plastic405.jpg 0 0 0 0 1 0  
## 2250 plastic/plastic406.jpg 0 0 0 0 1 0  
## 2251 plastic/plastic407.jpg 0 0 0 0 1 0  
## 2252 plastic/plastic408.jpg 0 0 0 0 1 0  
## 2253 plastic/plastic409.jpg 0 0 0 0 1 0  
## 2254 plastic/plastic41.jpg 0 0 0 0 1 0  
## 2255 plastic/plastic410.jpg 0 0 0 0 1 0  
## 2256 plastic/plastic411.jpg 0 0 0 0 1 0  
## 2257 plastic/plastic412.jpg 0 0 0 0 1 0  
## 2258 plastic/plastic413.jpg 0 0 0 0 1 0  
## 2259 plastic/plastic414.jpg 0 0 0 0 1 0  
## 2260 plastic/plastic415.jpg 0 0 0 0 1 0  
## 2261 plastic/plastic416.jpg 0 0 0 0 1 0  
## 2262 plastic/plastic417.jpg 0 0 0 0 1 0  
## 2263 plastic/plastic418.jpg 0 0 0 0 1 0  
## 2264 plastic/plastic419.jpg 0 0 0 0 1 0  
## 2265 plastic/plastic42.jpg 0 0 0 0 1 0  
## 2266 plastic/plastic420.jpg 0 0 0 0 1 0  
## 2267 plastic/plastic421.jpg 0 0 0 0 1 0  
## 2268 plastic/plastic422.jpg 0 0 0 0 1 0  
## 2269 plastic/plastic423.jpg 0 0 0 0 1 0  
## 2270 plastic/plastic424.jpg 0 0 0 0 1 0  
## 2271 plastic/plastic425.jpg 0 0 0 0 1 0  
## 2272 plastic/plastic426.jpg 0 0 0 0 1 0  
## 2273 plastic/plastic427.jpg 0 0 0 0 1 0  
## 2274 plastic/plastic428.jpg 0 0 0 0 1 0  
## 2275 plastic/plastic429.jpg 0 0 0 0 1 0  
## 2276 plastic/plastic43.jpg 0 0 0 0 1 0  
## 2277 plastic/plastic430.jpg 0 0 0 0 1 0  
## 2278 plastic/plastic431.jpg 0 0 0 0 1 0  
## 2279 plastic/plastic432.jpg 0 0 0 0 1 0  
## 2280 plastic/plastic433.jpg 0 0 0 0 1 0  
## 2281 plastic/plastic434.jpg 0 0 0 0 1 0  
## 2282 plastic/plastic435.jpg 0 0 0 0 1 0  
## 2283 plastic/plastic436.jpg 0 0 0 0 1 0  
## 2284 plastic/plastic437.jpg 0 0 0 0 1 0  
## 2285 plastic/plastic438.jpg 0 0 0 0 1 0  
## 2286 plastic/plastic439.jpg 0 0 0 0 1 0  
## 2287 plastic/plastic44.jpg 0 0 0 0 1 0  
## 2288 plastic/plastic440.jpg 0 0 0 0 1 0  
## 2289 plastic/plastic441.jpg 0 0 0 0 1 0  
## 2290 plastic/plastic442.jpg 0 0 0 0 1 0  
## 2291 plastic/plastic443.jpg 0 0 0 0 1 0  
## 2292 plastic/plastic444.jpg 0 0 0 0 1 0  
## 2293 plastic/plastic445.jpg 0 0 0 0 1 0  
## 2294 plastic/plastic446.jpg 0 0 0 0 1 0  
## 2295 plastic/plastic447.jpg 0 0 0 0 1 0  
## 2296 plastic/plastic448.jpg 0 0 0 0 1 0  
## 2297 plastic/plastic449.jpg 0 0 0 0 1 0  
## 2298 plastic/plastic45.jpg 0 0 0 0 1 0  
## 2299 plastic/plastic450.jpg 0 0 0 0 1 0  
## 2300 plastic/plastic451.jpg 0 0 0 0 1 0  
## 2301 plastic/plastic452.jpg 0 0 0 0 1 0  
## 2302 plastic/plastic453.jpg 0 0 0 0 1 0  
## 2303 plastic/plastic454.jpg 0 0 0 0 1 0  
## 2304 plastic/plastic455.jpg 0 0 0 0 1 0  
## 2305 plastic/plastic456.jpg 0 0 0 0 1 0  
## 2306 plastic/plastic457.jpg 0 0 0 0 1 0  
## 2307 plastic/plastic458.jpg 0 0 0 0 1 0  
## 2308 plastic/plastic459.jpg 0 0 0 0 1 0  
## 2309 plastic/plastic46.jpg 0 0 0 0 1 0  
## 2310 plastic/plastic460.jpg 0 0 0 0 1 0  
## 2311 plastic/plastic461.jpg 0 0 0 0 1 0  
## 2312 plastic/plastic462.jpg 0 0 0 0 1 0  
## 2313 plastic/plastic463.jpg 0 0 0 0 1 0  
## 2314 plastic/plastic464.jpg 0 0 0 0 1 0  
## 2315 plastic/plastic465.jpg 0 0 0 0 1 0  
## 2316 plastic/plastic466.jpg 0 0 0 0 1 0  
## 2317 plastic/plastic467.jpg 0 0 0 0 1 0  
## 2318 plastic/plastic468.jpg 0 0 0 0 1 0  
## 2319 plastic/plastic469.jpg 0 0 0 0 1 0  
## 2320 plastic/plastic47.jpg 0 0 0 0 1 0  
## 2321 plastic/plastic470.jpg 0 0 0 0 1 0  
## 2322 plastic/plastic471.jpg 0 0 0 0 1 0  
## 2323 plastic/plastic472.jpg 0 0 0 0 1 0  
## 2324 plastic/plastic473.jpg 0 0 0 0 1 0  
## 2325 plastic/plastic474.jpg 0 0 0 0 1 0  
## 2326 plastic/plastic475.jpg 0 0 0 0 1 0  
## 2327 plastic/plastic476.jpg 0 0 0 0 1 0  
## 2328 plastic/plastic477.jpg 0 0 0 0 1 0  
## 2329 plastic/plastic478.jpg 0 0 0 0 1 0  
## 2330 plastic/plastic479.jpg 0 0 0 0 1 0  
## 2331 plastic/plastic48.jpg 0 0 0 0 1 0  
## 2332 plastic/plastic480.jpg 0 0 0 0 1 0  
## 2333 plastic/plastic481.jpg 0 0 0 0 1 0  
## 2334 plastic/plastic482.jpg 0 0 0 0 1 0  
## 2335 plastic/plastic49.jpg 0 0 0 0 1 0  
## 2336 plastic/plastic5.jpg 0 0 0 0 1 0  
## 2337 plastic/plastic50.jpg 0 0 0 0 1 0  
## 2338 plastic/plastic51.jpg 0 0 0 0 1 0  
## 2339 plastic/plastic52.jpg 0 0 0 0 1 0  
## 2340 plastic/plastic53.jpg 0 0 0 0 1 0  
## 2341 plastic/plastic54.jpg 0 0 0 0 1 0  
## 2342 plastic/plastic55.jpg 0 0 0 0 1 0  
## 2343 plastic/plastic56.jpg 0 0 0 0 1 0  
## 2344 plastic/plastic57.jpg 0 0 0 0 1 0  
## 2345 plastic/plastic58.jpg 0 0 0 0 1 0  
## 2346 plastic/plastic59.jpg 0 0 0 0 1 0  
## 2347 plastic/plastic6.jpg 0 0 0 0 1 0  
## 2348 plastic/plastic60.jpg 0 0 0 0 1 0  
## 2349 plastic/plastic61.jpg 0 0 0 0 1 0  
## 2350 plastic/plastic62.jpg 0 0 0 0 1 0  
## 2351 plastic/plastic63.jpg 0 0 0 0 1 0  
## 2352 plastic/plastic64.jpg 0 0 0 0 1 0  
## 2353 plastic/plastic65.jpg 0 0 0 0 1 0  
## 2354 plastic/plastic66.jpg 0 0 0 0 1 0  
## 2355 plastic/plastic67.jpg 0 0 0 0 1 0  
## 2356 plastic/plastic68.jpg 0 0 0 0 1 0  
## 2357 plastic/plastic69.jpg 0 0 0 0 1 0  
## 2358 plastic/plastic7.jpg 0 0 0 0 1 0  
## 2359 plastic/plastic70.jpg 0 0 0 0 1 0  
## 2360 plastic/plastic71.jpg 0 0 0 0 1 0  
## 2361 plastic/plastic72.jpg 0 0 0 0 1 0  
## 2362 plastic/plastic73.jpg 0 0 0 0 1 0  
## 2363 plastic/plastic74.jpg 0 0 0 0 1 0  
## 2364 plastic/plastic75.jpg 0 0 0 0 1 0  
## 2365 plastic/plastic76.jpg 0 0 0 0 1 0  
## 2366 plastic/plastic77.jpg 0 0 0 0 1 0  
## 2367 plastic/plastic78.jpg 0 0 0 0 1 0  
## 2368 plastic/plastic79.jpg 0 0 0 0 1 0  
## 2369 plastic/plastic8.jpg 0 0 0 0 1 0  
## 2370 plastic/plastic80.jpg 0 0 0 0 1 0  
## 2371 plastic/plastic81.jpg 0 0 0 0 1 0  
## 2372 plastic/plastic82.jpg 0 0 0 0 1 0  
## 2373 plastic/plastic83.jpg 0 0 0 0 1 0  
## 2374 plastic/plastic84.jpg 0 0 0 0 1 0  
## 2375 plastic/plastic85.jpg 0 0 0 0 1 0  
## 2376 plastic/plastic86.jpg 0 0 0 0 1 0  
## 2377 plastic/plastic87.jpg 0 0 0 0 1 0  
## 2378 plastic/plastic88.jpg 0 0 0 0 1 0  
## 2379 plastic/plastic89.jpg 0 0 0 0 1 0  
## 2380 plastic/plastic9.jpg 0 0 0 0 1 0  
## 2381 plastic/plastic90.jpg 0 0 0 0 1 0  
## 2382 plastic/plastic91.jpg 0 0 0 0 1 0  
## 2383 plastic/plastic92.jpg 0 0 0 0 1 0  
## 2384 plastic/plastic93.jpg 0 0 0 0 1 0  
## 2385 plastic/plastic94.jpg 0 0 0 0 1 0  
## 2386 plastic/plastic95.jpg 0 0 0 0 1 0  
## 2387 plastic/plastic96.jpg 0 0 0 0 1 0  
## 2388 plastic/plastic97.jpg 0 0 0 0 1 0  
## 2389 plastic/plastic98.jpg 0 0 0 0 1 0  
## 2390 plastic/plastic99.jpg 0 0 0 0 1 0  
## 2391 trash/trash1.jpg 0 0 0 0 0 1  
## 2392 trash/trash10.jpg 0 0 0 0 0 1  
## 2393 trash/trash100.jpg 0 0 0 0 0 1  
## 2394 trash/trash101.jpg 0 0 0 0 0 1  
## 2395 trash/trash102.jpg 0 0 0 0 0 1  
## 2396 trash/trash103.jpg 0 0 0 0 0 1  
## 2397 trash/trash104.jpg 0 0 0 0 0 1  
## 2398 trash/trash105.jpg 0 0 0 0 0 1  
## 2399 trash/trash106.jpg 0 0 0 0 0 1  
## 2400 trash/trash107.jpg 0 0 0 0 0 1  
## 2401 trash/trash108.jpg 0 0 0 0 0 1  
## 2402 trash/trash109.jpg 0 0 0 0 0 1  
## 2403 trash/trash11.jpg 0 0 0 0 0 1  
## 2404 trash/trash110.jpg 0 0 0 0 0 1  
## 2405 trash/trash111.jpg 0 0 0 0 0 1  
## 2406 trash/trash112.jpg 0 0 0 0 0 1  
## 2407 trash/trash113.jpg 0 0 0 0 0 1  
## 2408 trash/trash114.jpg 0 0 0 0 0 1  
## 2409 trash/trash115.jpg 0 0 0 0 0 1  
## 2410 trash/trash116.jpg 0 0 0 0 0 1  
## 2411 trash/trash117.jpg 0 0 0 0 0 1  
## 2412 trash/trash118.jpg 0 0 0 0 0 1  
## 2413 trash/trash119.jpg 0 0 0 0 0 1  
## 2414 trash/trash12.jpg 0 0 0 0 0 1  
## 2415 trash/trash120.jpg 0 0 0 0 0 1  
## 2416 trash/trash121.jpg 0 0 0 0 0 1  
## 2417 trash/trash122.jpg 0 0 0 0 0 1  
## 2418 trash/trash123.jpg 0 0 0 0 0 1  
## 2419 trash/trash124.jpg 0 0 0 0 0 1  
## 2420 trash/trash125.jpg 0 0 0 0 0 1  
## 2421 trash/trash126.jpg 0 0 0 0 0 1  
## 2422 trash/trash127.jpg 0 0 0 0 0 1  
## 2423 trash/trash128.jpg 0 0 0 0 0 1  
## 2424 trash/trash129.jpg 0 0 0 0 0 1  
## 2425 trash/trash13.jpg 0 0 0 0 0 1  
## 2426 trash/trash130.jpg 0 0 0 0 0 1  
## 2427 trash/trash131.jpg 0 0 0 0 0 1  
## 2428 trash/trash132.jpg 0 0 0 0 0 1  
## 2429 trash/trash133.jpg 0 0 0 0 0 1  
## 2430 trash/trash134.jpg 0 0 0 0 0 1  
## 2431 trash/trash135.jpg 0 0 0 0 0 1  
## 2432 trash/trash136.jpg 0 0 0 0 0 1  
## 2433 trash/trash137.jpg 0 0 0 0 0 1  
## 2434 trash/trash14.jpg 0 0 0 0 0 1  
## 2435 trash/trash15.jpg 0 0 0 0 0 1  
## 2436 trash/trash16.jpg 0 0 0 0 0 1  
## 2437 trash/trash17.jpg 0 0 0 0 0 1  
## 2438 trash/trash18.jpg 0 0 0 0 0 1  
## 2439 trash/trash19.jpg 0 0 0 0 0 1  
## 2440 trash/trash2.jpg 0 0 0 0 0 1  
## 2441 trash/trash20.jpg 0 0 0 0 0 1  
## 2442 trash/trash21.jpg 0 0 0 0 0 1  
## 2443 trash/trash22.jpg 0 0 0 0 0 1  
## 2444 trash/trash23.jpg 0 0 0 0 0 1  
## 2445 trash/trash24.jpg 0 0 0 0 0 1  
## 2446 trash/trash25.jpg 0 0 0 0 0 1  
## 2447 trash/trash26.jpg 0 0 0 0 0 1  
## 2448 trash/trash27.jpg 0 0 0 0 0 1  
## 2449 trash/trash28.jpg 0 0 0 0 0 1  
## 2450 trash/trash29.jpg 0 0 0 0 0 1  
## 2451 trash/trash3.jpg 0 0 0 0 0 1  
## 2452 trash/trash30.jpg 0 0 0 0 0 1  
## 2453 trash/trash31.jpg 0 0 0 0 0 1  
## 2454 trash/trash32.jpg 0 0 0 0 0 1  
## 2455 trash/trash33.jpg 0 0 0 0 0 1  
## 2456 trash/trash34.jpg 0 0 0 0 0 1  
## 2457 trash/trash35.jpg 0 0 0 0 0 1  
## 2458 trash/trash36.jpg 0 0 0 0 0 1  
## 2459 trash/trash37.jpg 0 0 0 0 0 1  
## 2460 trash/trash38.jpg 0 0 0 0 0 1  
## 2461 trash/trash39.jpg 0 0 0 0 0 1  
## 2462 trash/trash4.jpg 0 0 0 0 0 1  
## 2463 trash/trash40.jpg 0 0 0 0 0 1  
## 2464 trash/trash41.jpg 0 0 0 0 0 1  
## 2465 trash/trash42.jpg 0 0 0 0 0 1  
## 2466 trash/trash43.jpg 0 0 0 0 0 1  
## 2467 trash/trash44.jpg 0 0 0 0 0 1  
## 2468 trash/trash45.jpg 0 0 0 0 0 1  
## 2469 trash/trash46.jpg 0 0 0 0 0 1  
## 2470 trash/trash47.jpg 0 0 0 0 0 1  
## 2471 trash/trash48.jpg 0 0 0 0 0 1  
## 2472 trash/trash49.jpg 0 0 0 0 0 1  
## 2473 trash/trash5.jpg 0 0 0 0 0 1  
## 2474 trash/trash50.jpg 0 0 0 0 0 1  
## 2475 trash/trash51.jpg 0 0 0 0 0 1  
## 2476 trash/trash52.jpg 0 0 0 0 0 1  
## 2477 trash/trash53.jpg 0 0 0 0 0 1  
## 2478 trash/trash54.jpg 0 0 0 0 0 1  
## 2479 trash/trash55.jpg 0 0 0 0 0 1  
## 2480 trash/trash56.jpg 0 0 0 0 0 1  
## 2481 trash/trash57.jpg 0 0 0 0 0 1  
## 2482 trash/trash58.jpg 0 0 0 0 0 1  
## 2483 trash/trash59.jpg 0 0 0 0 0 1  
## 2484 trash/trash6.jpg 0 0 0 0 0 1  
## 2485 trash/trash60.jpg 0 0 0 0 0 1  
## 2486 trash/trash61.jpg 0 0 0 0 0 1  
## 2487 trash/trash62.jpg 0 0 0 0 0 1  
## 2488 trash/trash63.jpg 0 0 0 0 0 1  
## 2489 trash/trash64.jpg 0 0 0 0 0 1  
## 2490 trash/trash65.jpg 0 0 0 0 0 1  
## 2491 trash/trash66.jpg 0 0 0 0 0 1  
## 2492 trash/trash67.jpg 0 0 0 0 0 1  
## 2493 trash/trash68.jpg 0 0 0 0 0 1  
## 2494 trash/trash69.jpg 0 0 0 0 0 1  
## 2495 trash/trash7.jpg 0 0 0 0 0 1  
## 2496 trash/trash70.jpg 0 0 0 0 0 1  
## 2497 trash/trash71.jpg 0 0 0 0 0 1  
## 2498 trash/trash72.jpg 0 0 0 0 0 1  
## 2499 trash/trash73.jpg 0 0 0 0 0 1  
## 2500 trash/trash74.jpg 0 0 0 0 0 1  
## 2501 trash/trash75.jpg 0 0 0 0 0 1  
## 2502 trash/trash76.jpg 0 0 0 0 0 1  
## 2503 trash/trash77.jpg 0 0 0 0 0 1  
## 2504 trash/trash78.jpg 0 0 0 0 0 1  
## 2505 trash/trash79.jpg 0 0 0 0 0 1  
## 2506 trash/trash8.jpg 0 0 0 0 0 1  
## 2507 trash/trash80.jpg 0 0 0 0 0 1  
## 2508 trash/trash81.jpg 0 0 0 0 0 1  
## 2509 trash/trash82.jpg 0 0 0 0 0 1  
## 2510 trash/trash83.jpg 0 0 0 0 0 1  
## 2511 trash/trash84.jpg 0 0 0 0 0 1  
## 2512 trash/trash85.jpg 0 0 0 0 0 1  
## 2513 trash/trash86.jpg 0 0 0 0 0 1  
## 2514 trash/trash87.jpg 0 0 0 0 0 1  
## 2515 trash/trash88.jpg 0 0 0 0 0 1  
## 2516 trash/trash89.jpg 0 0 0 0 0 1  
## 2517 trash/trash9.jpg 0 0 0 0 0 1  
## 2518 trash/trash90.jpg 0 0 0 0 0 1  
## 2519 trash/trash91.jpg 0 0 0 0 0 1  
## 2520 trash/trash92.jpg 0 0 0 0 0 1  
## 2521 trash/trash93.jpg 0 0 0 0 0 1  
## 2522 trash/trash94.jpg 0 0 0 0 0 1  
## 2523 trash/trash95.jpg 0 0 0 0 0 1  
## 2524 trash/trash96.jpg 0 0 0 0 0 1  
## 2525 trash/trash97.jpg 0 0 0 0 0 1  
## 2526 trash/trash98.jpg 0 0 0 0 0 1  
## 2527 trash/trash99.jpg 0 0 0 0 0 1

labels <- y\_labs  
labels\_full <- df  
# train + validation  
set.seed(40)  
smp\_size <- floor(0.5 \* n ) # 1263  
train.validation.ind <- sample(seq\_len(n), size = smp\_size)  
  
train.validation <- data[train.validation.ind,,,]  
train.validation.labels <- labels[train.validation.ind, ]  
train.validation.labels.full <- labels\_full[train.validation.ind, ]  
  
test <- data[-train.validation.ind,,,]  
test.labels <- labels[-train.validation.ind, ]  
test.labels.full <- labels\_full[-train.validation.ind, ]  
  
# now we split train+validation into train/validation  
set.seed(40)  
# 80% train, 20% validation  
train.ind <- sample(1:nrow(train.validation) , floor(0.8\*length(train.validation.ind)) )  
  
training <- train.validation[train.ind,,,]  
training.labels <- train.validation.labels[train.ind, ]  
training.labels.full <- train.validation.labels.full[train.ind, ]  
  
validation <- train.validation[-train.ind,,,]  
validation.labels <- train.validation.labels[-train.ind, ]  
validation.labels.full <- train.validation.labels.full[-train.ind, ]

training.labels.full %>% head(5)

## id cardboard glass metal paper plastic trash  
## 1829 paper/paper562.jpg 0 0 0 1 0 0  
## 335 cardboard/cardboard40.jpg 1 0 0 0 0 0  
## 1986 plastic/plastic169.jpg 0 0 0 0 1 0  
## 1849 paper/paper580.jpg 0 0 0 1 0 0  
## 1928 plastic/plastic116.jpg 0 0 0 0 1 0

validation.labels.full %>% head(5)

## id cardboard glass metal paper plastic trash  
## 1554 paper/paper314.jpg 0 0 0 1 0 0  
## 1442 paper/paper213.jpg 0 0 0 1 0 0  
## 2282 plastic/plastic435.jpg 0 0 0 0 1 0  
## 869 glass/glass67.jpg 0 1 0 0 0 0  
## 342 cardboard/cardboard43.jpg 1 0 0 0 0 0

test.labels.full %>% head(5)

## id cardboard glass metal paper plastic trash  
## 9 cardboard/cardboard106.jpg 1 0 0 0 0 0  
## 10 cardboard/cardboard107.jpg 1 0 0 0 0 0  
## 12 cardboard/cardboard109.jpg 1 0 0 0 0 0  
## 14 cardboard/cardboard110.jpg 1 0 0 0 0 0  
## 16 cardboard/cardboard112.jpg 1 0 0 0 0 0

train\_datagen <- image\_data\_generator(rescale = 1/255)   
  
train\_generator <- flow\_images\_from\_dataframe(  
 directory = base\_dir,  
 dataframe = training.labels.full,  
 generator = train\_datagen,  
 x\_col = "id",  
 y\_col = list("cardboard","glass","metal","paper","plastic","trash"),  
 seed = 40,  
 shuffle = TRUE,  
 class\_mode = "other",   
 target\_size = c(150,150)  
)

test\_datagen <- image\_data\_generator(rescale = 1/255)   
  
test\_generator <- flow\_images\_from\_dataframe(  
 directory = base\_dir,  
 dataframe = test.labels.full,  
 generator = test\_datagen,  
 x\_col = "id",  
 y\_col = list("cardboard","glass","metal","paper","plastic","trash"),  
 seed = 40,  
 shuffle = TRUE,  
 class\_mode = "other",  
 target\_size = c(150,150)  
)

val\_datagen <- image\_data\_generator(rescale = 1/255)   
  
validation\_generator <- flow\_images\_from\_dataframe(  
 directory = base\_dir,  
 dataframe = validation.labels.full,  
 generator = val\_datagen,  
 x\_col = "id",  
 y\_col = list("cardboard","glass","metal","paper","plastic","trash"),  
 seed = 40,  
 shuffle = TRUE,  
 class\_mode = "other",  
 target\_size = c(150,150)  
)

# https://github.com/rstudio/reticulate/issues/502  
conv\_base <- application\_vgg16(  
 weights = "imagenet",  
 include\_top = FALSE,  
 input\_shape = c(150, 150, 3)  
)  
freeze\_weights(conv\_base)  
  
model <- keras\_model\_sequential() %>%  
 conv\_base %>%  
 layer\_flatten() %>%  
 layer\_dense(units = 20, activation = "relu") %>%  
 layer\_dense(units = 6, activation = "softmax")  
  
model %>% compile(  
 optimizer = "rmsprop",  
 loss = "categorical\_crossentropy",  
 metrics = c("accuracy")  
)  
  
history <- model %>% fit\_generator(  
 train\_generator,  
 validation\_data=validation\_generator,  
 epochs = 6,  
 steps\_per\_epoch = 5,  
 validation\_steps = 5,  
 workers=1   
)  
plot(history)  
#model %>% save\_model\_hdf5("model1.h5")

#class(model)  
  
results <- model %>% evaluate( x = test, y = test.labels)  
results  
# loss accuracy   
# 1.448924 0.380538   
preds <- model %>% predict\_classes(test)  
table(test.labels,preds) %>% sum()  
table(test.labels,preds) %>% diag() %>% sum()