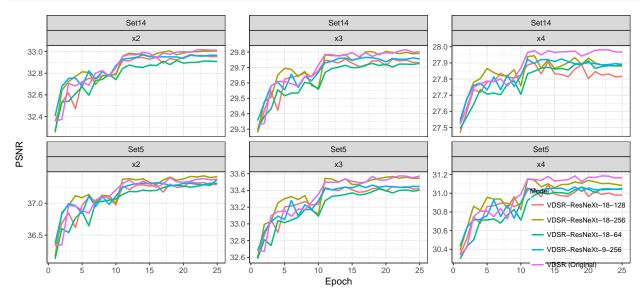
## VDSR-ResNeXt Results

## Data prep

```
path <- 'C:/Users/x249w/Documents/School/Winter 2018/STAT 946/Project/Report_Poster/results.csv'
results <- read.csv(path, stringsAsFactors = F)</pre>
names(results)[1] <- 'Model'</pre>
psnr <- results %>%
 rowwise() %>%
  mutate_at(.vars = grep('Metrics', names(results), value = T),
             .funs = function(x) {
               as.numeric(strsplit(x, '/')[[1]][1])
            }) %>%
  data.frame()
names(psnr) <- gsub('Metrics', 'PSNR', names(psnr))</pre>
psnr <- Map(function(x) {</pre>
  dataset <- strsplit(x, '_')[[1]][2]</pre>
  scale <- strsplit(x, '_')[[1]][3]</pre>
  df1 <- subset(psnr, select = c('Model', 'Epoch', x))</pre>
  names(df1)[3] <- 'PSNR'</pre>
  df2 <- data.frame(dataset = dataset, scale = scale, stringsAsFactors = F)</pre>
  cbind(df1, df2)
}, grep('PSNR', names(psnr), value = T)) %>%
  do.call('rbind', .)
rownames(psnr) <- NULL</pre>
ssim <- results %>%
  rowwise() %>%
  mutate_at(.vars = grep('Metrics', names(results), value = T),
             .funs = function(x) {
               as.numeric(strsplit(x, '/')[[1]][2])
             }) %>%
  data.frame()
names(ssim) <- gsub('Metrics', 'SSIM', names(ssim))</pre>
ssim <- Map(function(x) {</pre>
  dataset <- strsplit(x, '_')[[1]][2]</pre>
  scale <- strsplit(x, '_')[[1]][3]</pre>
  df1 <- subset(ssim, select = c('Model', 'Epoch', x))</pre>
  names(df1)[3] <- 'SSIM'</pre>
```

```
df2 <- data.frame(dataset = dataset, scale = scale, stringsAsFactors = F)
  cbind(df1, df2)
}, grep('SSIM', names(ssim), value = T)) %>%
  do.call('rbind', .)
rownames(ssim) <- NULL</pre>
```

## Validation Set PSNR Visualization



PSNR Visualization - Report Body Only

## Validation Set SSIM Visualization

```
theme(legend.position = c(0.91, 0.15),
    legend.background = element_rect(fill = "transparent", colour = NA),
    legend.text = element_text(size = 8),
    legend.title = element_text(size = 8))
```

