

Visualizations correct outputs among networks and ensembles

```
library(ggplot2)

## Warning: package 'ggplot2' was built under R version 4.0.5

library(dplyr)

## Warning: package 'dplyr' was built under R version 4.0.5

##
## Attaching package: 'dplyr'

## The following objects are masked from 'package:stats':
## 
##     filter, lag

## The following objects are masked from 'package:base':
## 
##     intersect, setdiff, setequal, union

library(tidyr)

## Warning: package 'tidyr' was built under R version 4.0.5

library("ggpubr")

## Warning: package 'ggpubr' was built under R version 4.0.5

library(LDATS)

## Warning: package 'LDATS' was built under R version 4.0.5

library(ggVennDiagram)

## Warning: package 'ggVennDiagram' was built under R version 4.0.5

library(stringr)
library(abind)

## Warning: package 'abind' was built under R version 4.0.3
```

```

library(patchwork)

## Warning: package 'patchwork' was built under R version 4.0.3

source("utils.R")

## Warning: package 'hash' was built under R version 4.0.5

## hash-2.2.6.1 provided by Decision Patterns

## Warning: package 'reticulate' was built under R version 4.0.5

## Warning: package 'berryFunctions' was built under R version 4.0.5

## 
## Attaching package: 'berryFunctions'

## The following object is masked from 'package:ggVennDiagram':
##
##     circle

## The following object is masked from 'package:dplyr':
##
##     between

## Warning: package 'purrr' was built under R version 4.0.3

## Warning: package 'reshape2' was built under R version 4.0.3

## 
## Attaching package: 'reshape2'

## The following object is masked from 'package:tidyverse':
##
##     smiths

```

Visualization on networks trained in 30 replications on CIFAR 10 training set with 500 sample validation set extracted randomly in each replication. This file visualizes correctness of outputs of networks and ensembles.

```

base_dir <- "../data/data_train_val_c10"
repls <- 0:29
classes <- 10

nets_outputs <- load_network_outputs(base_dir, repls)
ens_outputs <- load_ensemble_outputs(base_dir, repls)

```

```

sort_ind <- function(lst)
{
  return(sort(lst, index.return=TRUE, decreasing=TRUE)$ix)
}

nets_test_top_indices <- apply(X=nets_outputs$test_outputs, MARGIN=c(1, 2, 3), FUN=sort_ind)[1, , , ]
ens_tt_top_indices <- apply(X=ens_outputs$train_training, MARGIN=c(1, 2, 3, 4), FUN=sort_ind)[1, , , , ]
ens_vt_top_indices <- apply(X=ens_outputs$val_training, MARGIN=c(1, 2, 3, 4), FUN=sort_ind)[1, , , , ]
r_n <- length(repls)
samples_n <- dim(nets_outputs$test_labels)[2]
nets_n <- length(nets_outputs$networks)
cp_m_n <- length(ens_outputs$coupling_methods)
co_m_n <- length(ens_outputs$combining_methods)
test_labs <- nets_outputs$test_labels + 1
dim(test_labs) <- c(r_n, 1, samples_n)
test_labs_nets <- aperm(abind(array(rep(aperm(test_labs, perm=c(2, 1, 3)), nets_n), c(r_n, samples_n, n
test_labs_ens <- aperm(array(rep(aperm(test_labs, perm=c(2, 1, 3)), co_m_n * cp_m_n), c(r_n, samples_n,
nets_test_cor_preds <- test_labs_nets == nets_test_top_indices
ens_tt_cor_preds <- test_labs_ens == ens_tt_top_indices
ens_vt_cor_preds <- test_labs_ens == ens_vt_top_indices

for (ri in 1:r_n)
{
  nets_cor_list <- list()
  incor <- 1:samples_n
  for (ni in 1:nets_n)
  {
    cor_list <- which(nets_test_cor_preds[ri, ni, ])
    nets_cor_list[[nets_outputs$networks[ni]]] = cor_list
    incor <- setdiff(incor, cor_list)
  }
  incor_n <- length(incor)

  for (co_m_i in 1:co_m_n)
  {
    for (cp_m_i in 1:cp_m_n)
    {
      cor_list_ens_tt <- which(ens_tt_cor_preds[ri, co_m_i, cp_m_i, ])
      cor_list_ens_vt <- which(ens_vt_cor_preds[ri, co_m_i, cp_m_i, ])

      cur_cor_list_tt <- nets_cor_list
      cur_cor_list_tt[[paste(ens_outputs$combining_methods[co_m_i], ens_outputs$coupling_methods[cp_m_i])]] = cor_list_ens_tt

      cur_cor_list_vt <- nets_cor_list
      cur_cor_list_vt[[paste(ens_outputs$combining_methods[co_m_i], ens_outputs$coupling_methods[cp_m_i])]] = cor_list_ens_vt
    }
  }

  venn_diag_tt <- ggVennDiagram(cur_cor_list_tt) + scale_fill_gradient(trans="log10", name="count",
  ggtitle(paste("tt - replication ", ri)) +
  scale_x_continuous(limits=c(0, 1))

  venn_diag_vt <- ggVennDiagram(cur_cor_list_vt) + scale_fill_gradient(trans="log10", name="count",
  ggtitle(paste("vt - replication ", ri)) +
  scale_x_continuous(limits=c(0, 1))
}

```

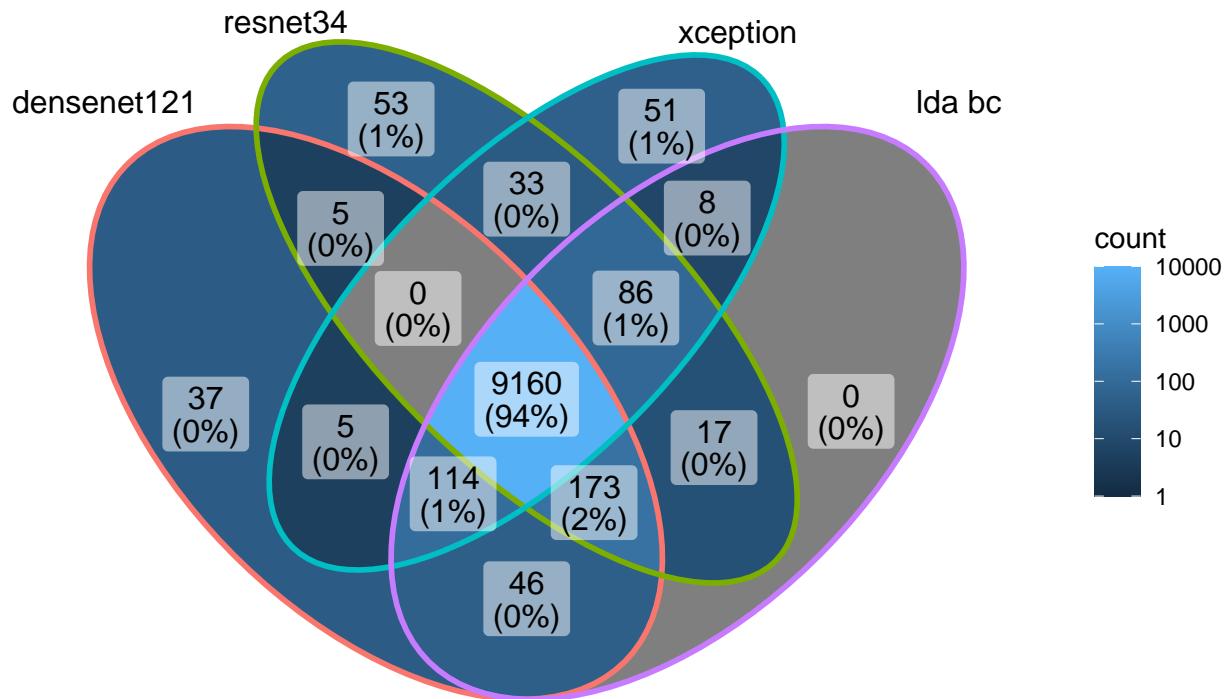
```

        print(venn_diag_tt)
        print(venn_diag_vt)
    }
}
}

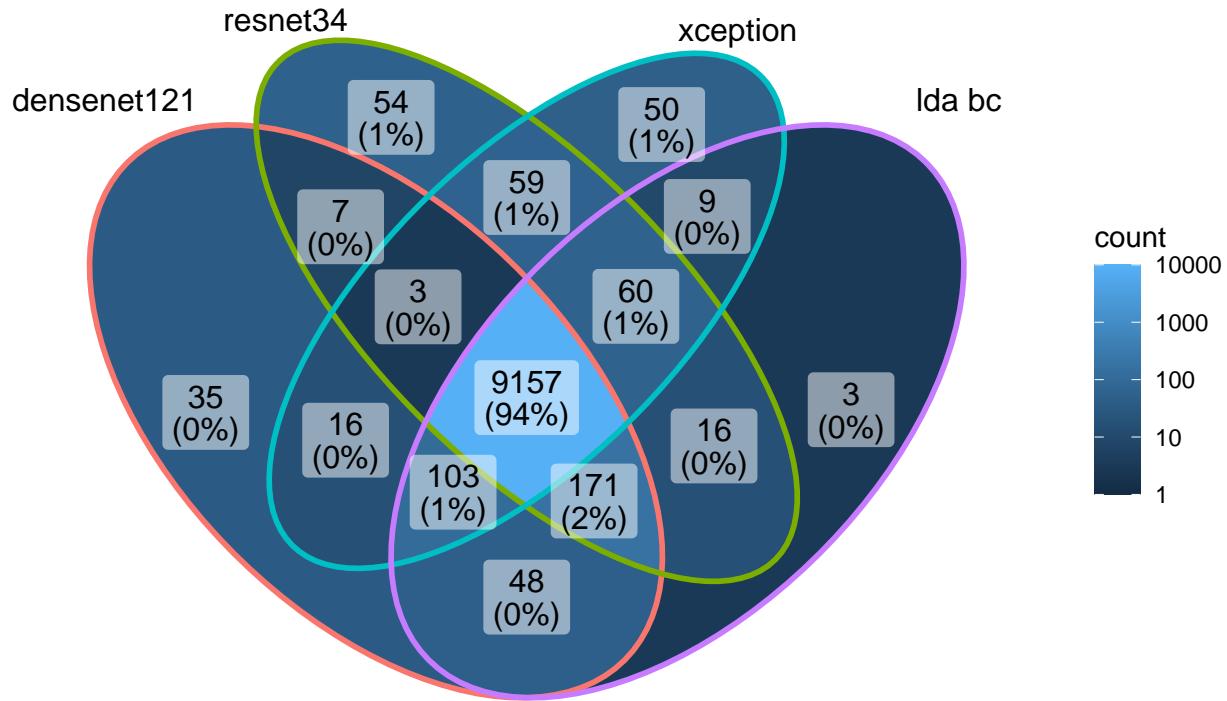
## Warning: Transformation introduced infinite values in discrete y-axis

```

tt – replication 1

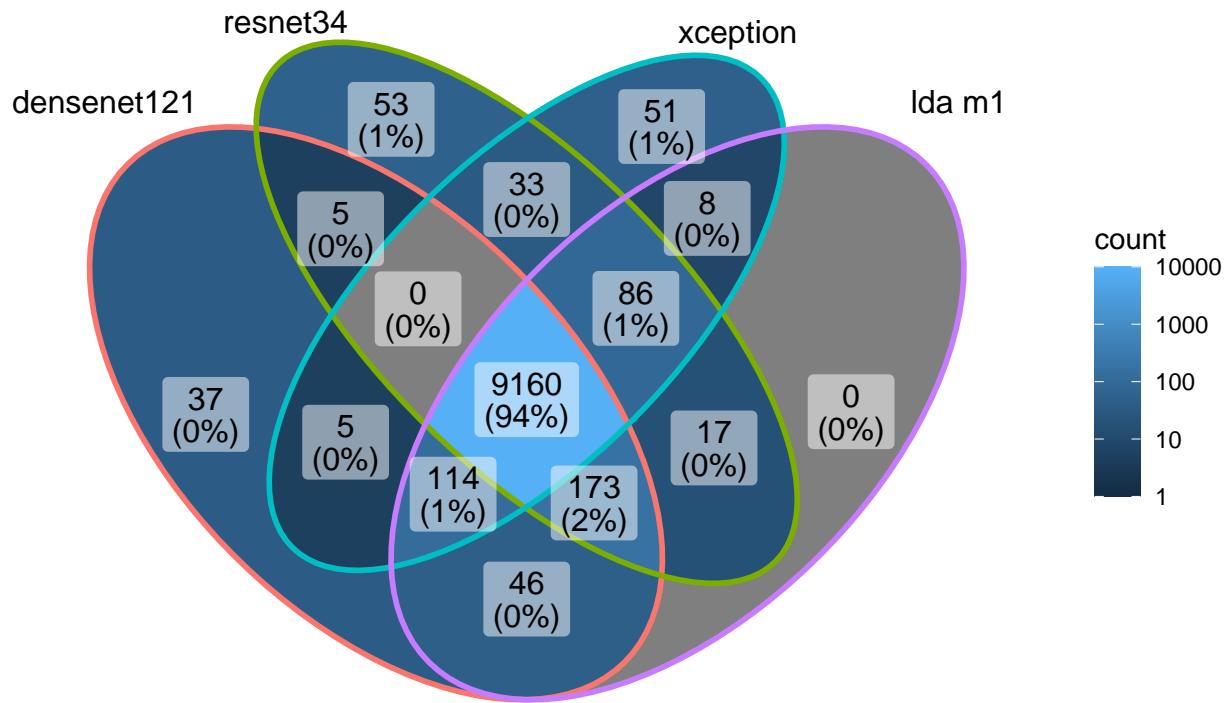


vt – replication 1

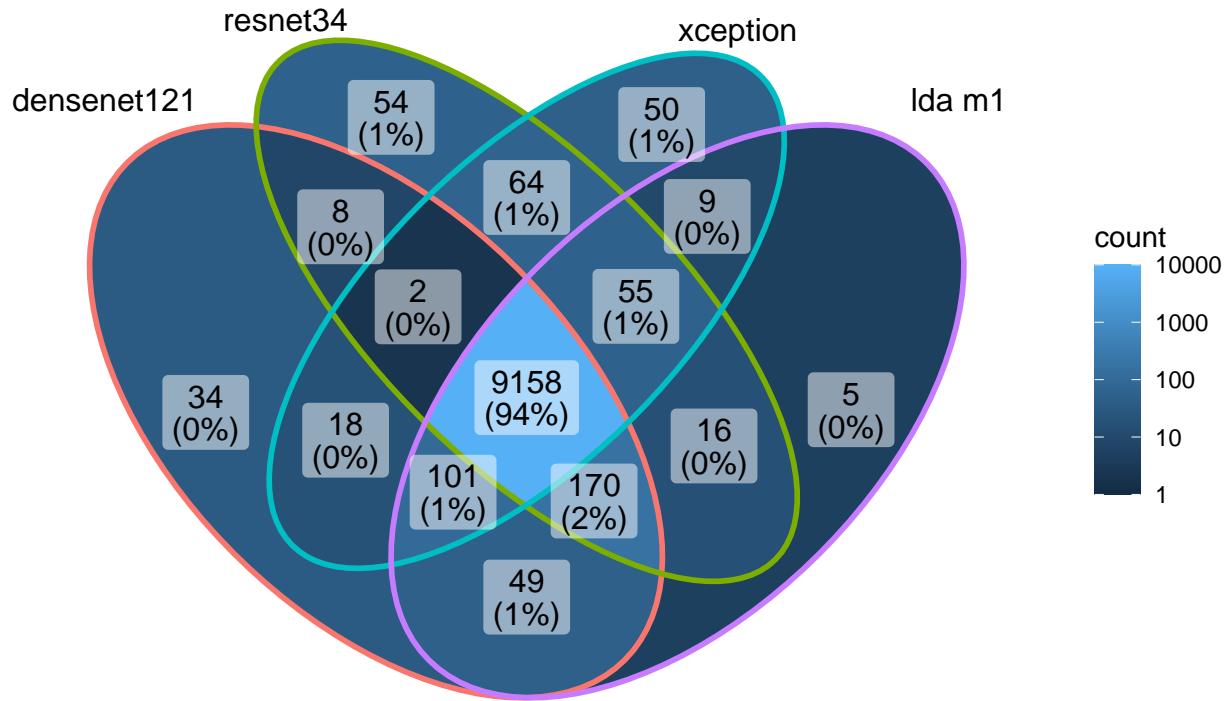


Warning: Transformation introduced infinite values in discrete y-axis

tt – replication 1

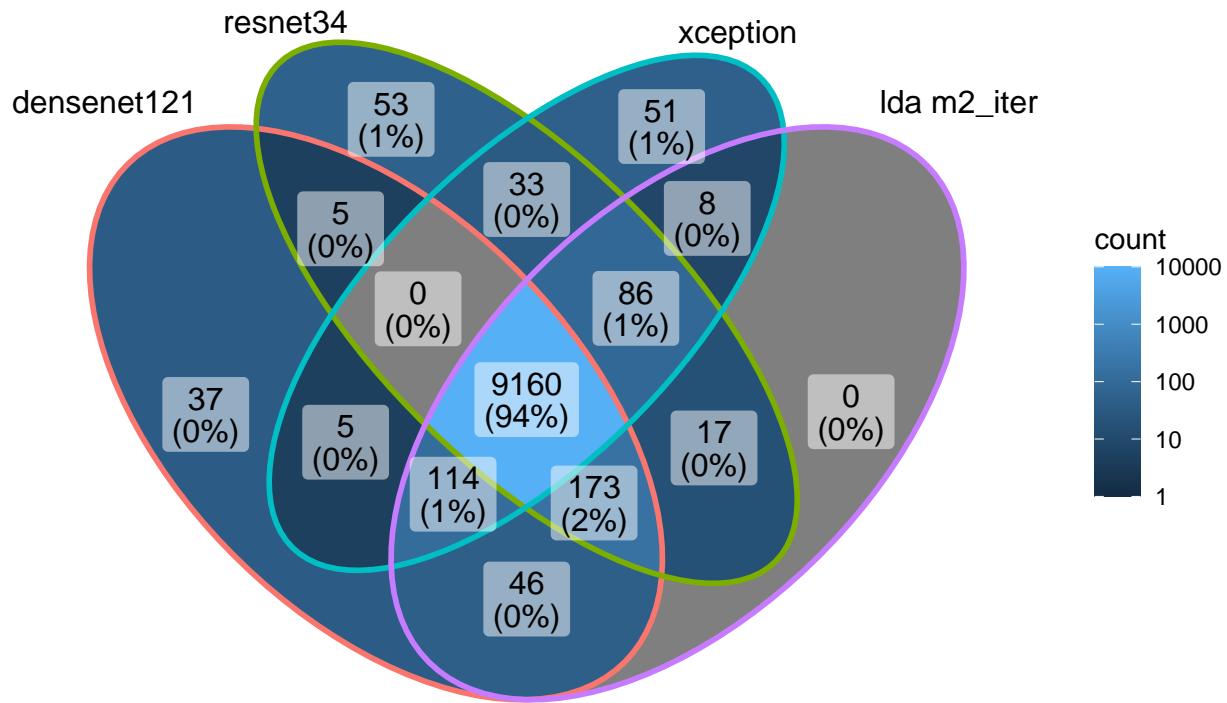


vt – replication 1

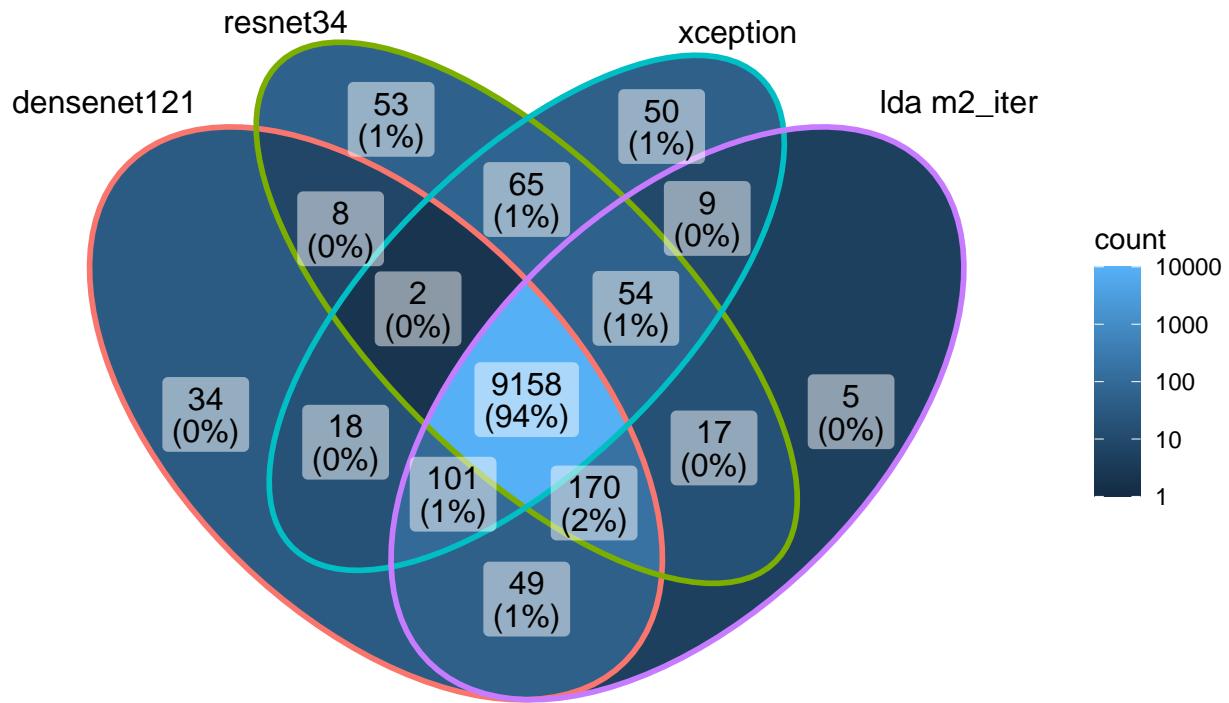


Warning: Transformation introduced infinite values in discrete y-axis

tt – replication 1

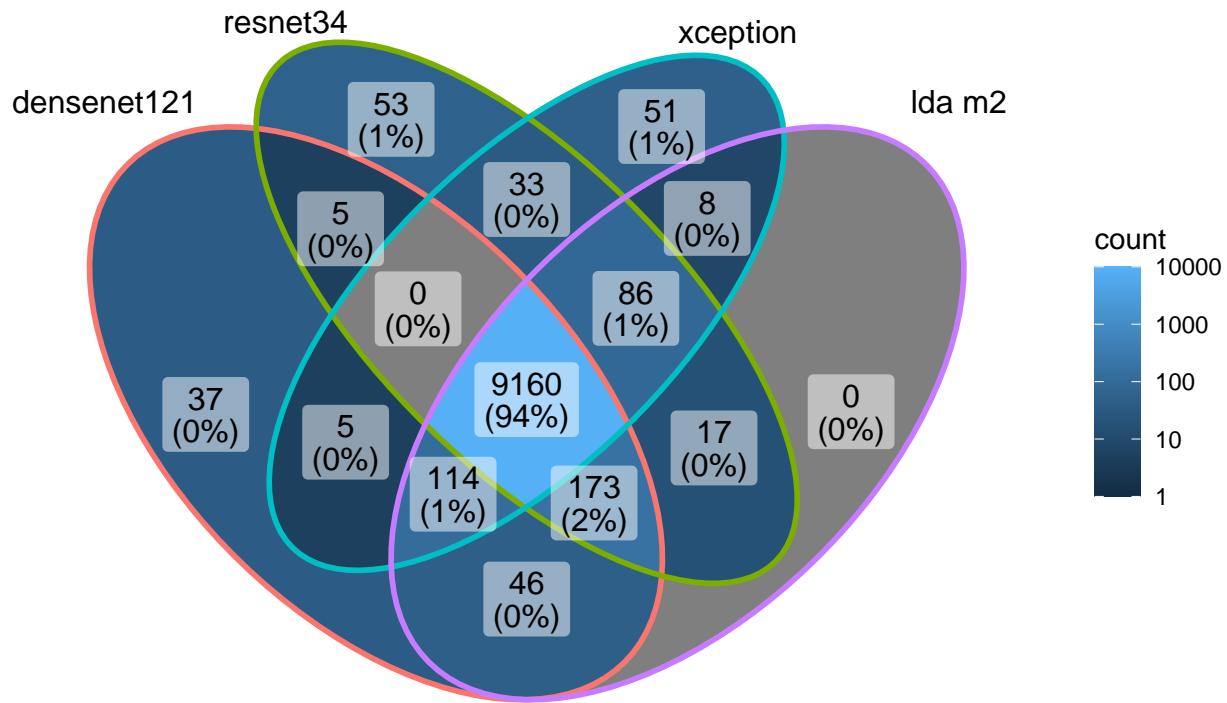


vt – replication 1

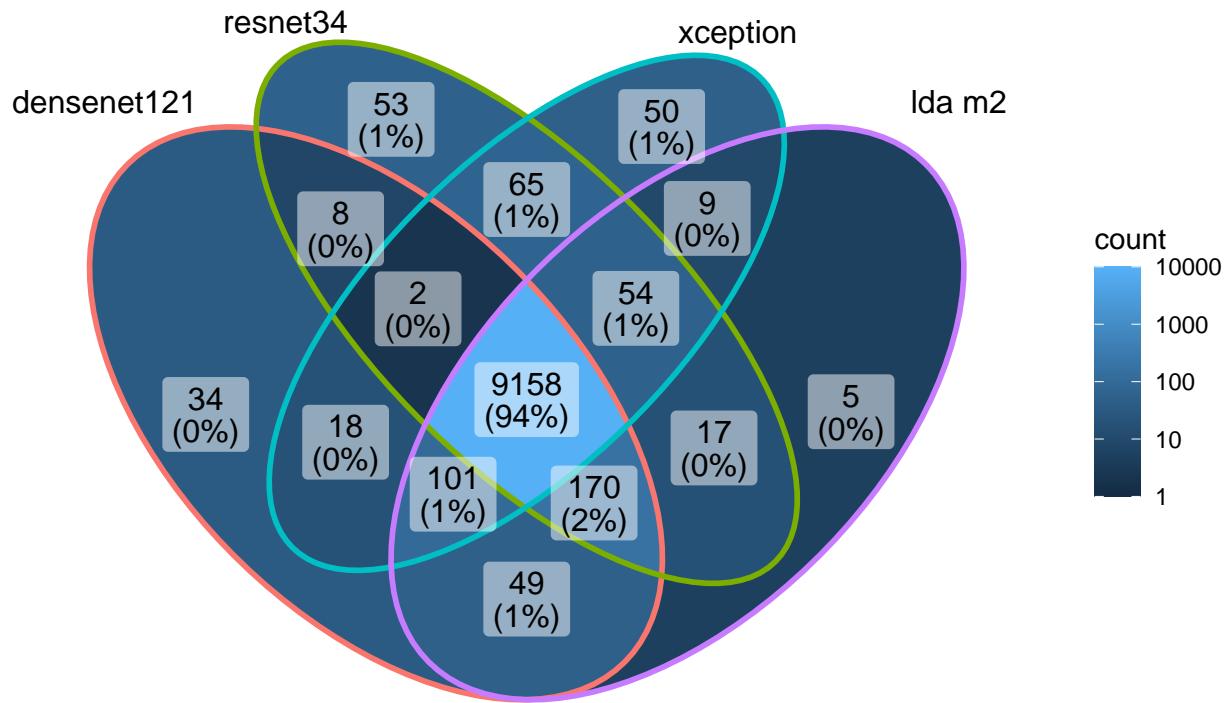


Warning: Transformation introduced infinite values in discrete y-axis

tt – replication 1

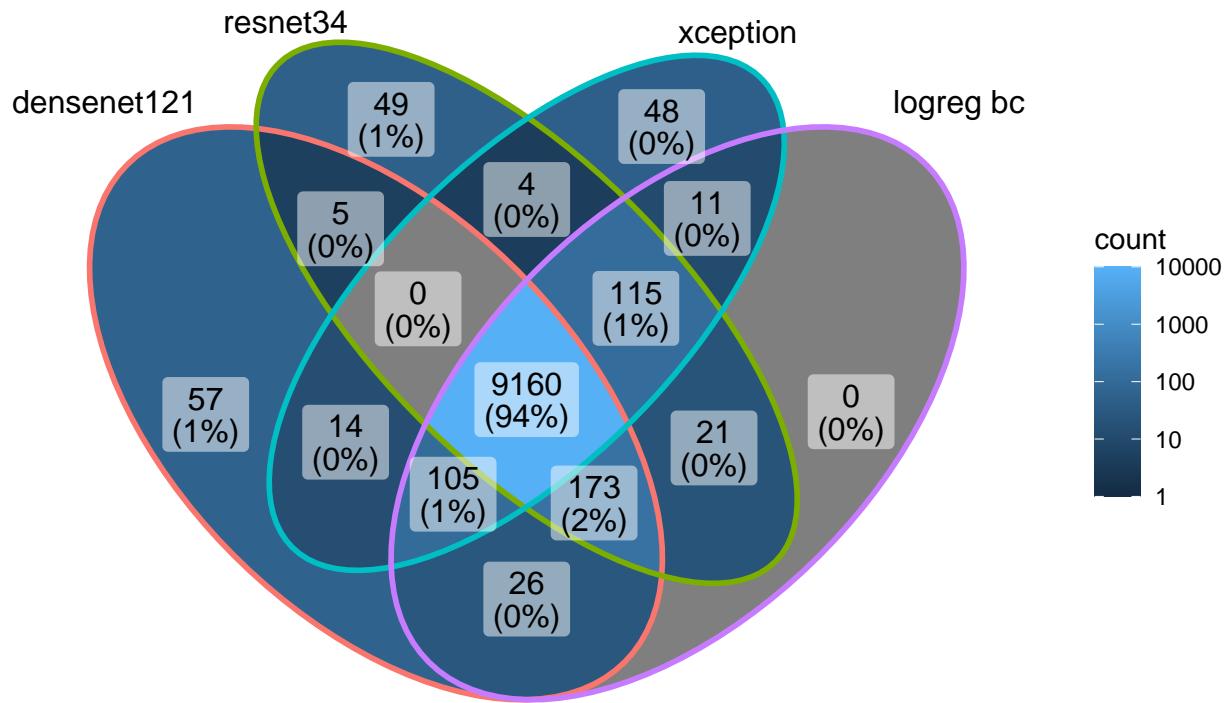


vt – replication 1

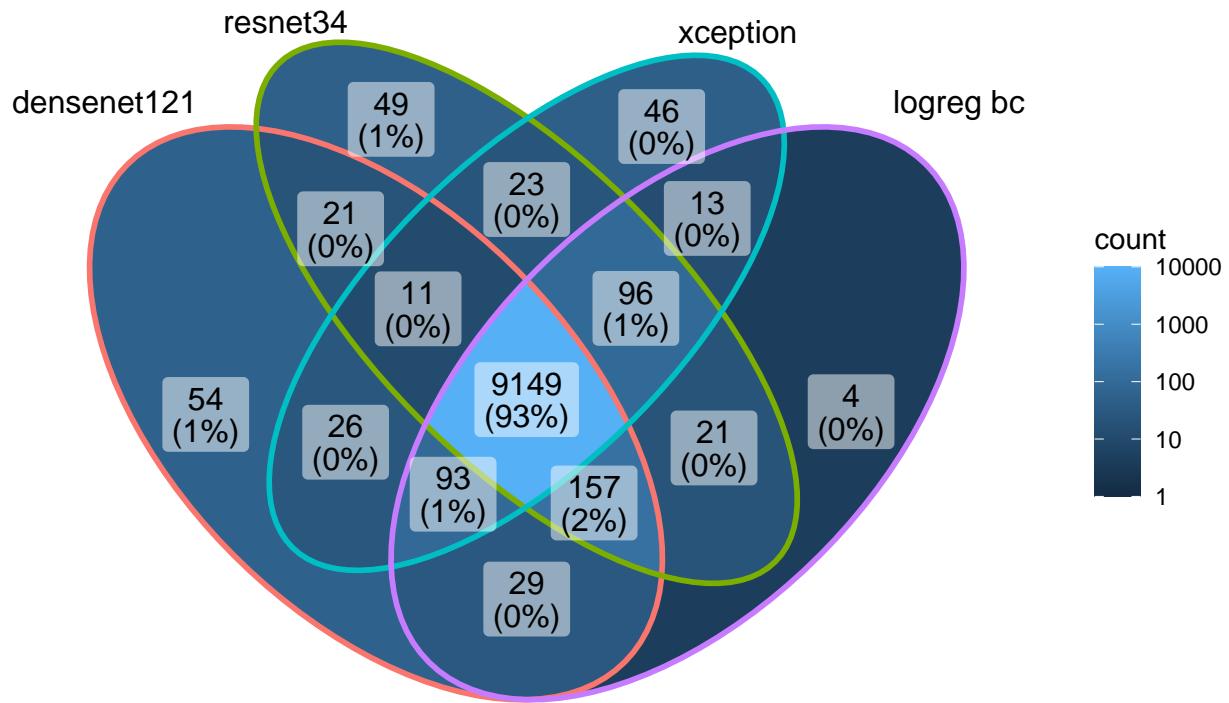


Warning: Transformation introduced infinite values in discrete y-axis

tt – replication 1

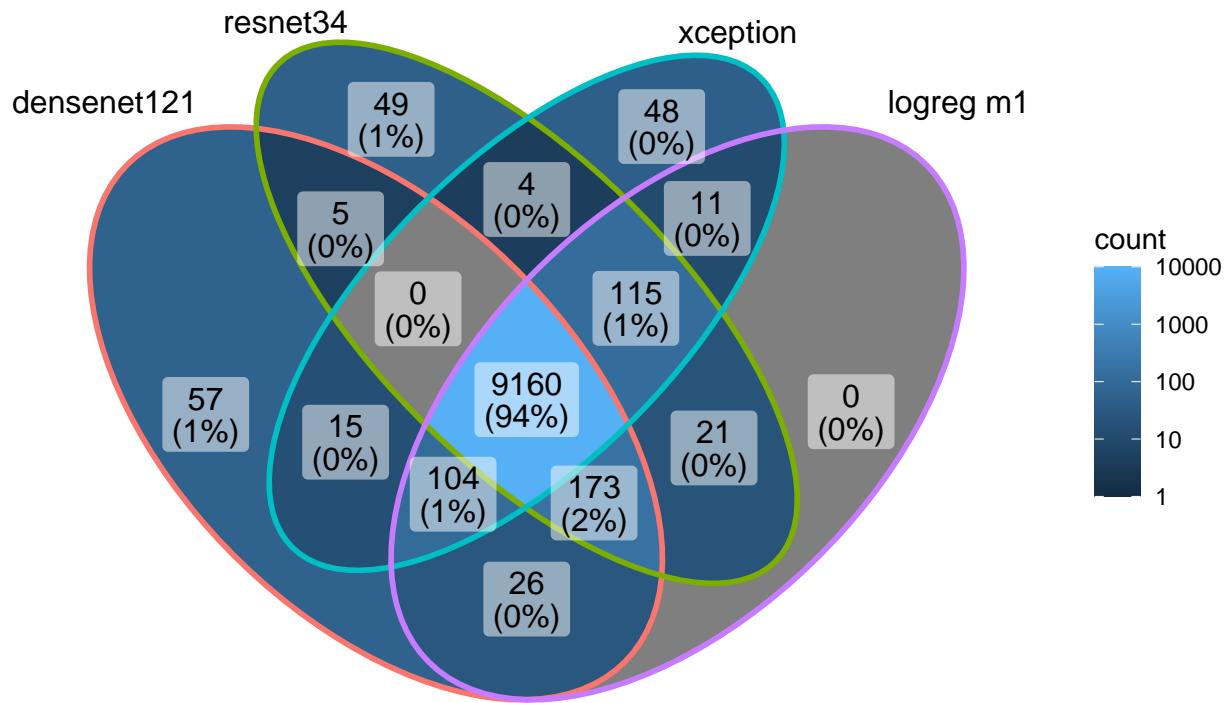


vt – replication 1

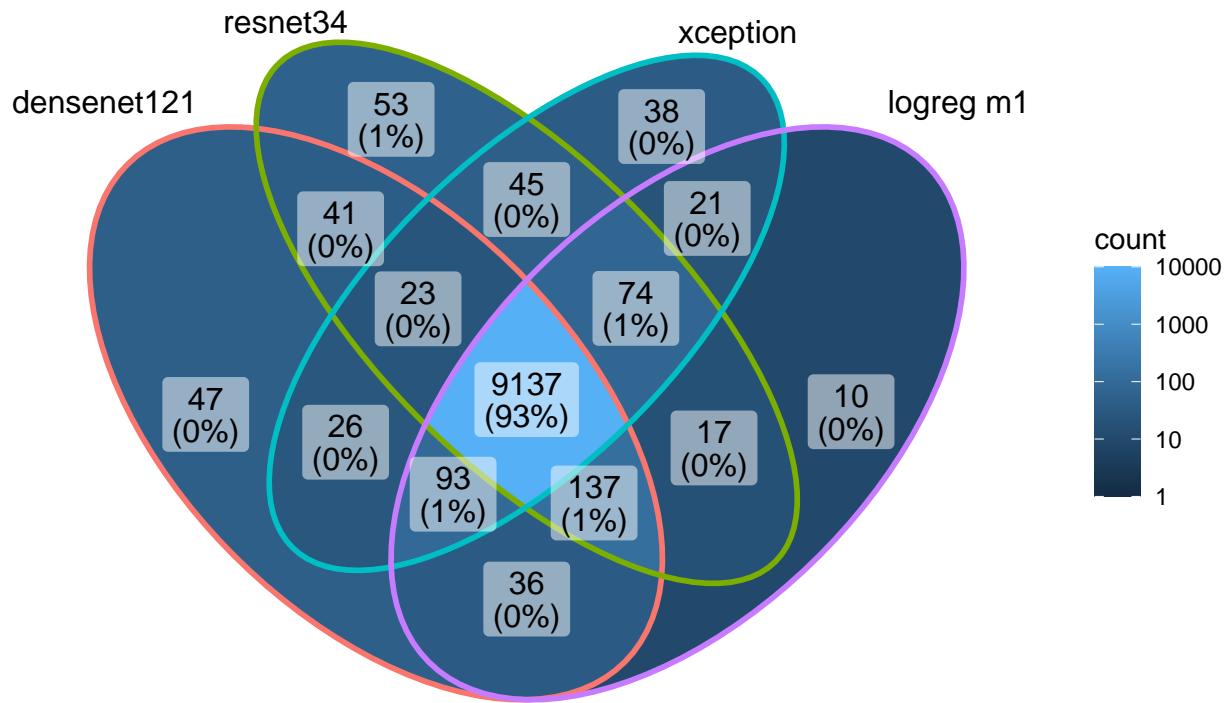


Warning: Transformation introduced infinite values in discrete y-axis

tt – replication 1

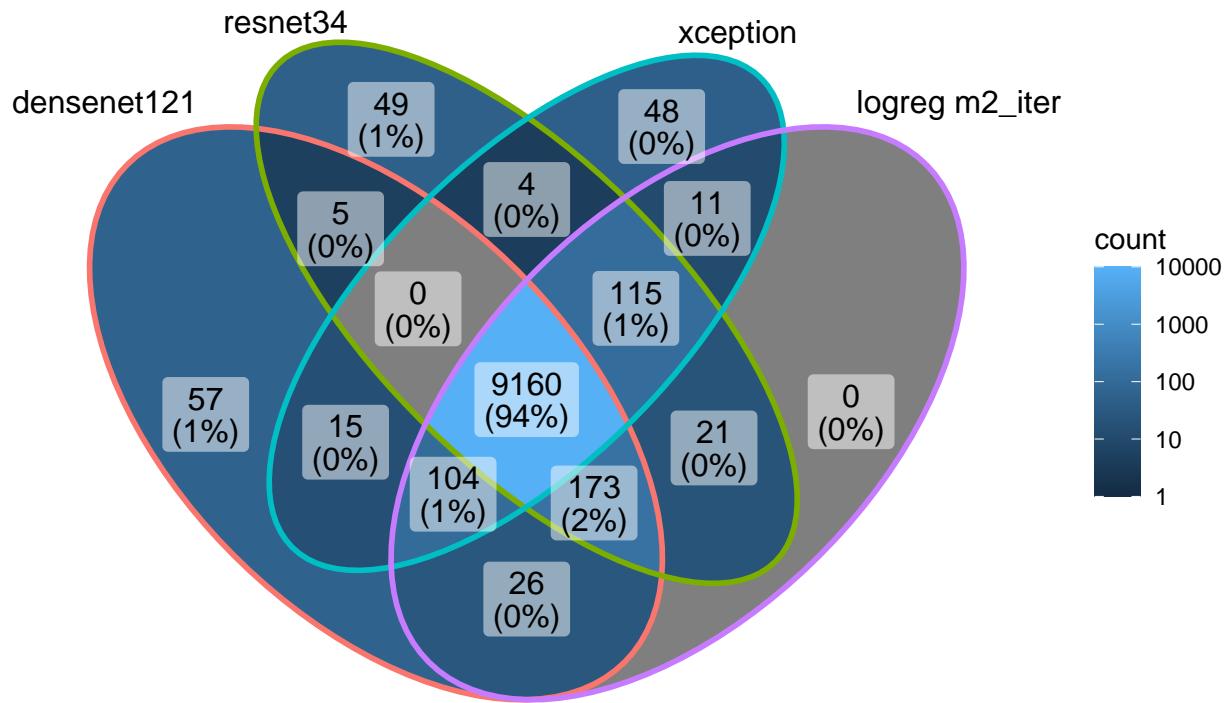


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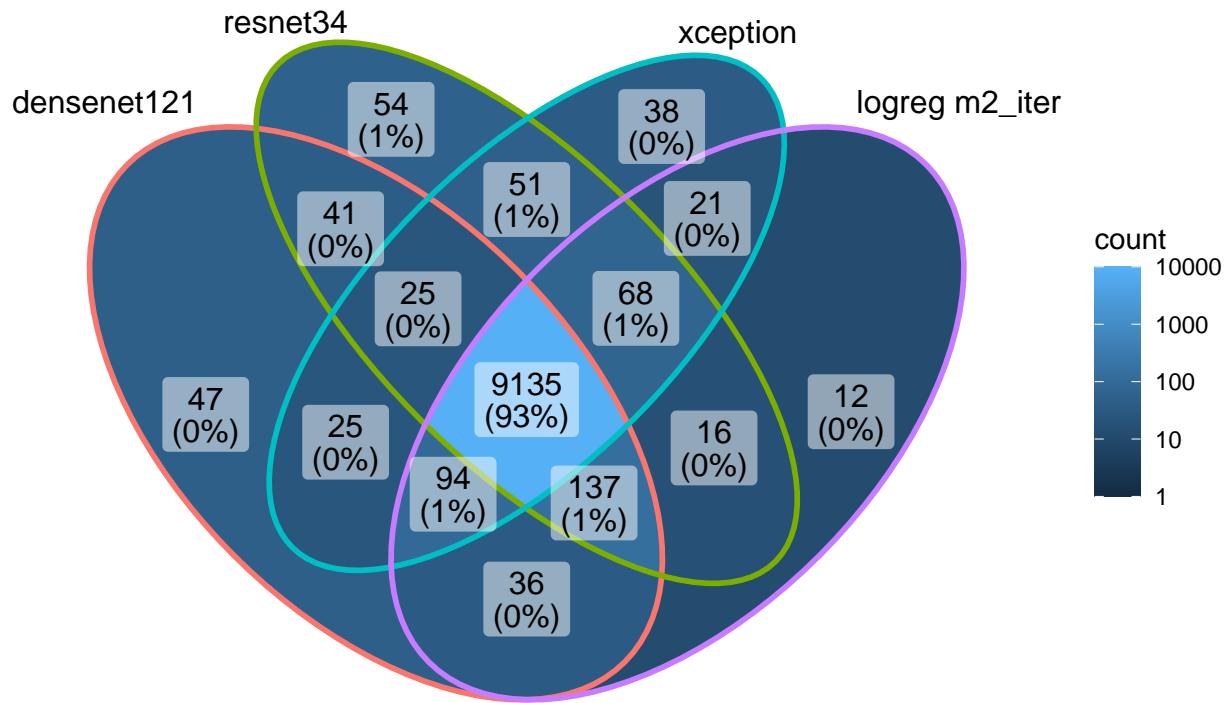


Warning: Transformation introduced infinite values in discrete y-axis

tt – replication 1

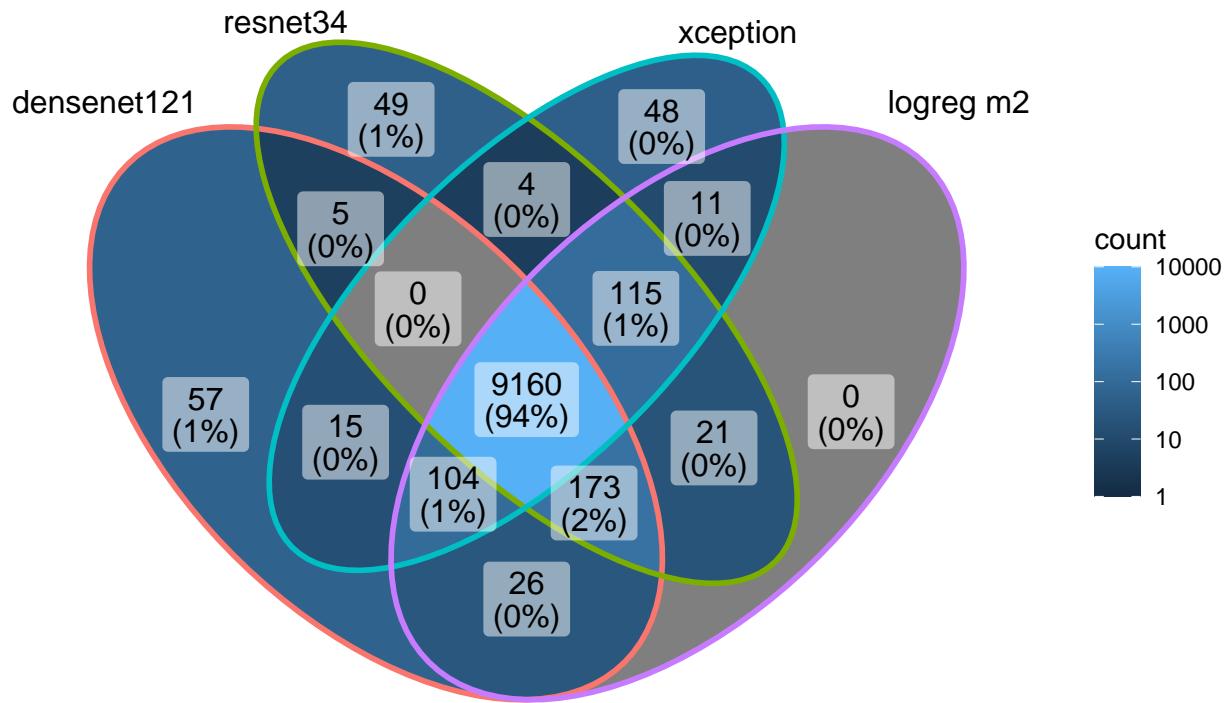


vt – replication 1

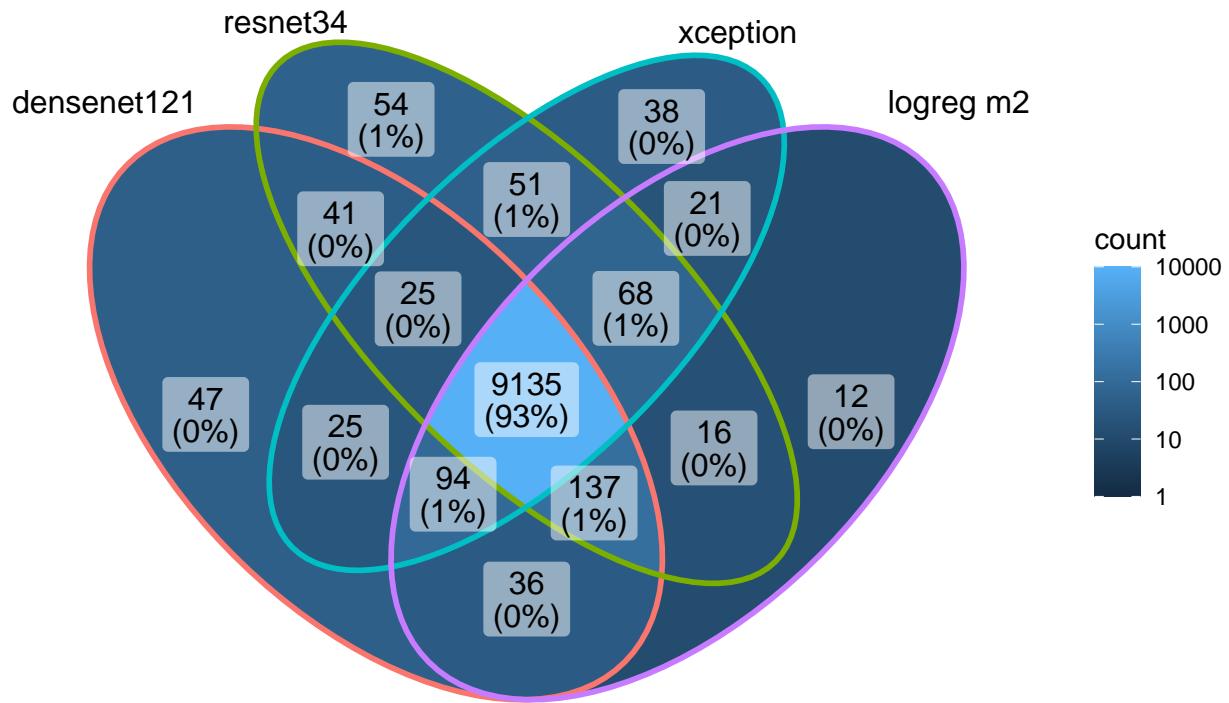


Warning: Transformation introduced infinite values in discrete y-axis

tt – replication 1

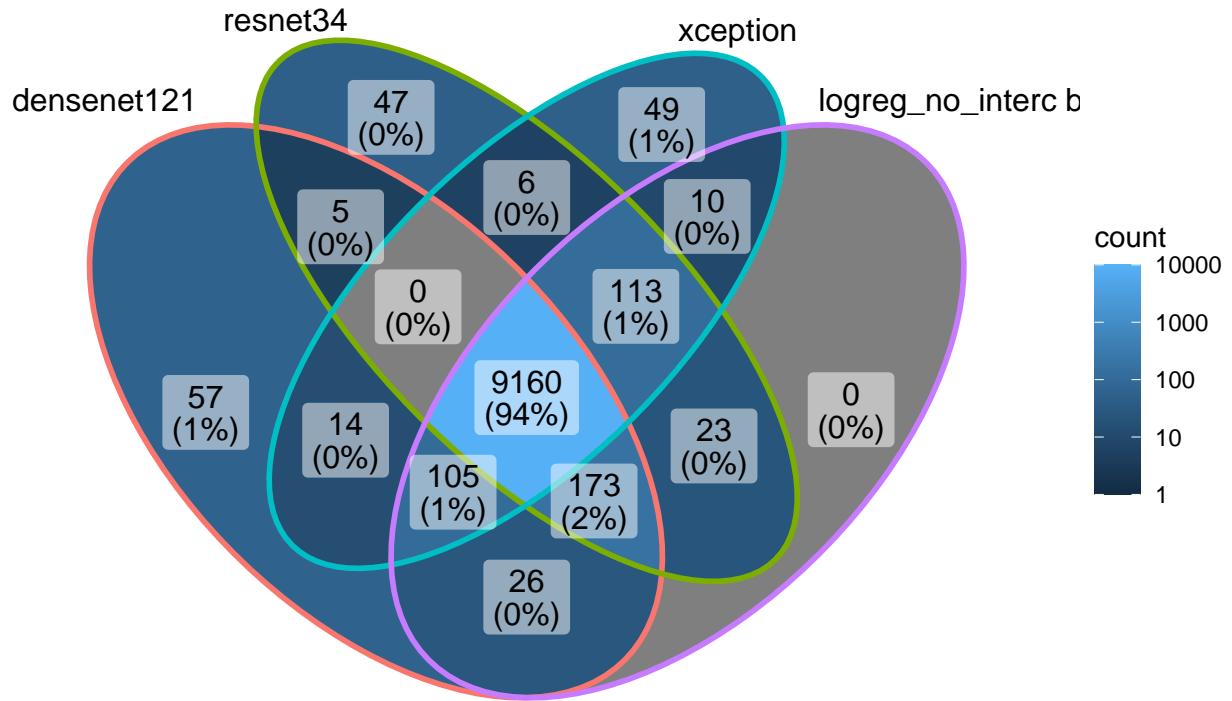


vt – replication 1

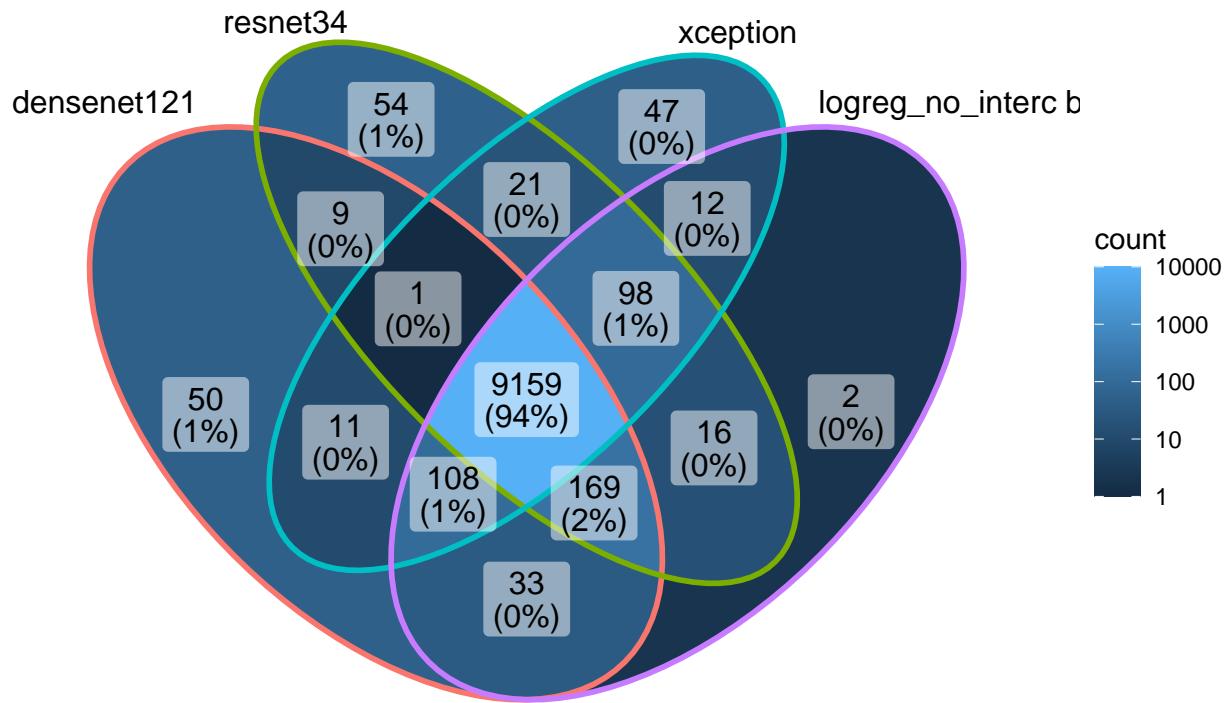


Warning: Transformation introduced infinite values in discrete y-axis

tt – replication 1

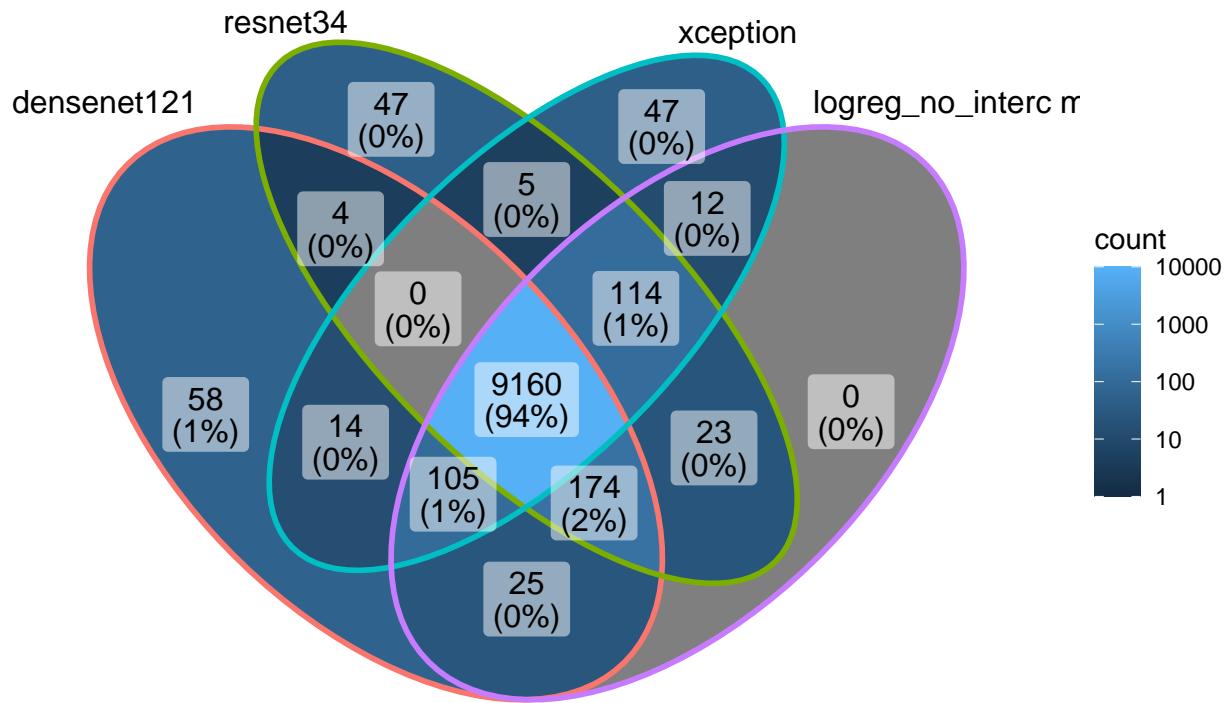


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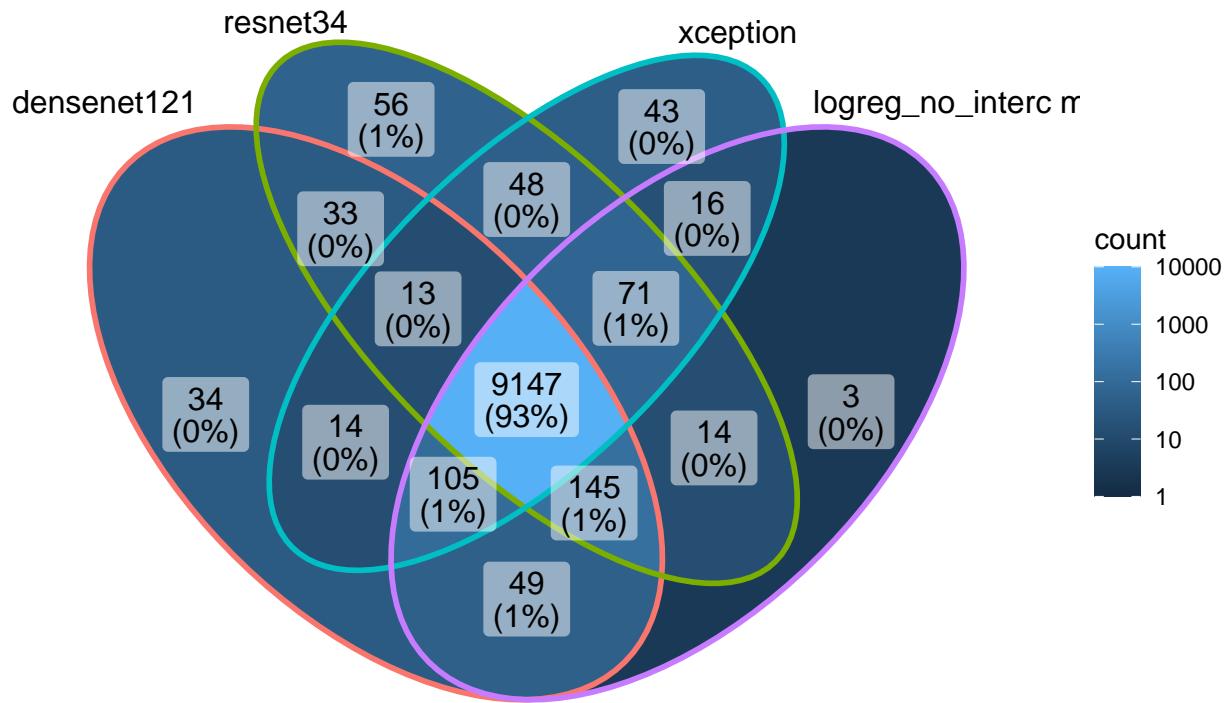


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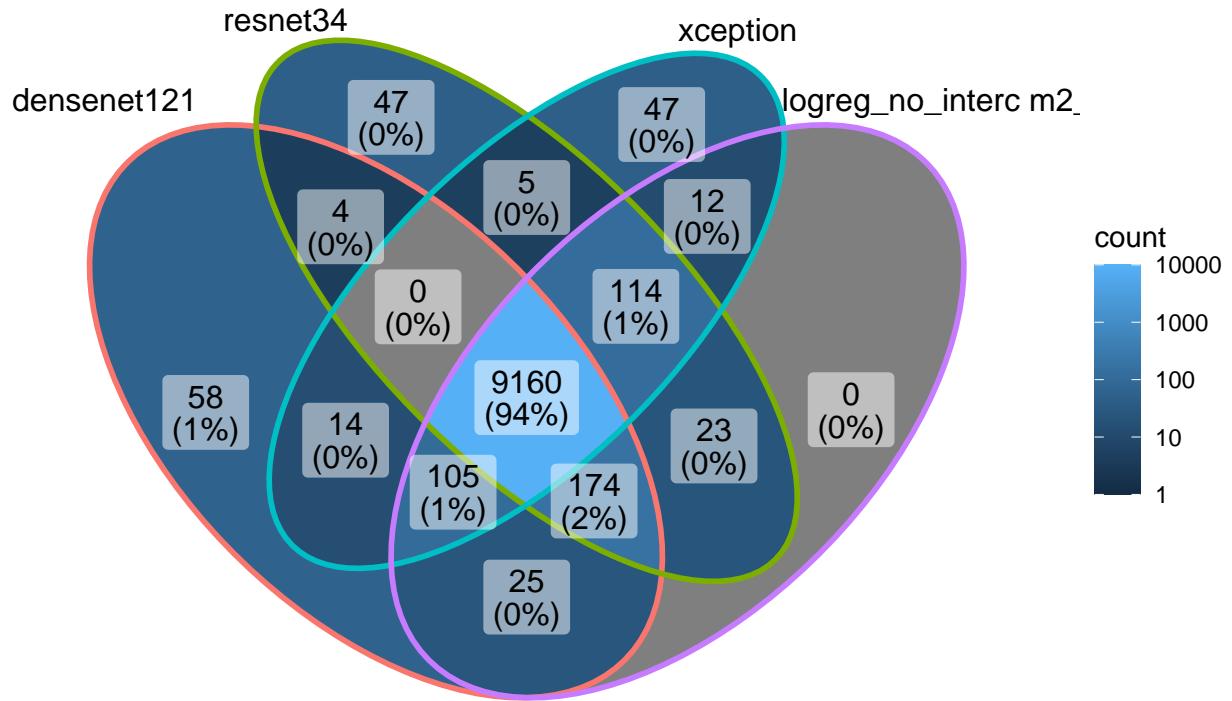


vt – replication 1

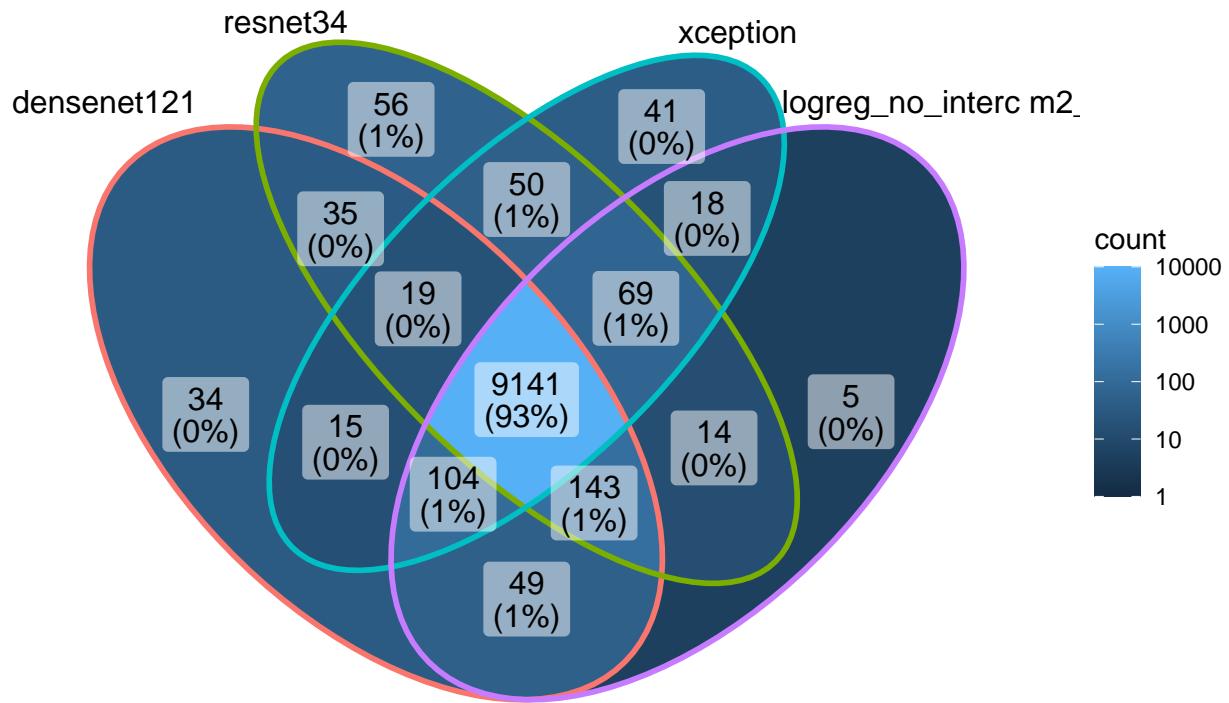


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tt – replication 1

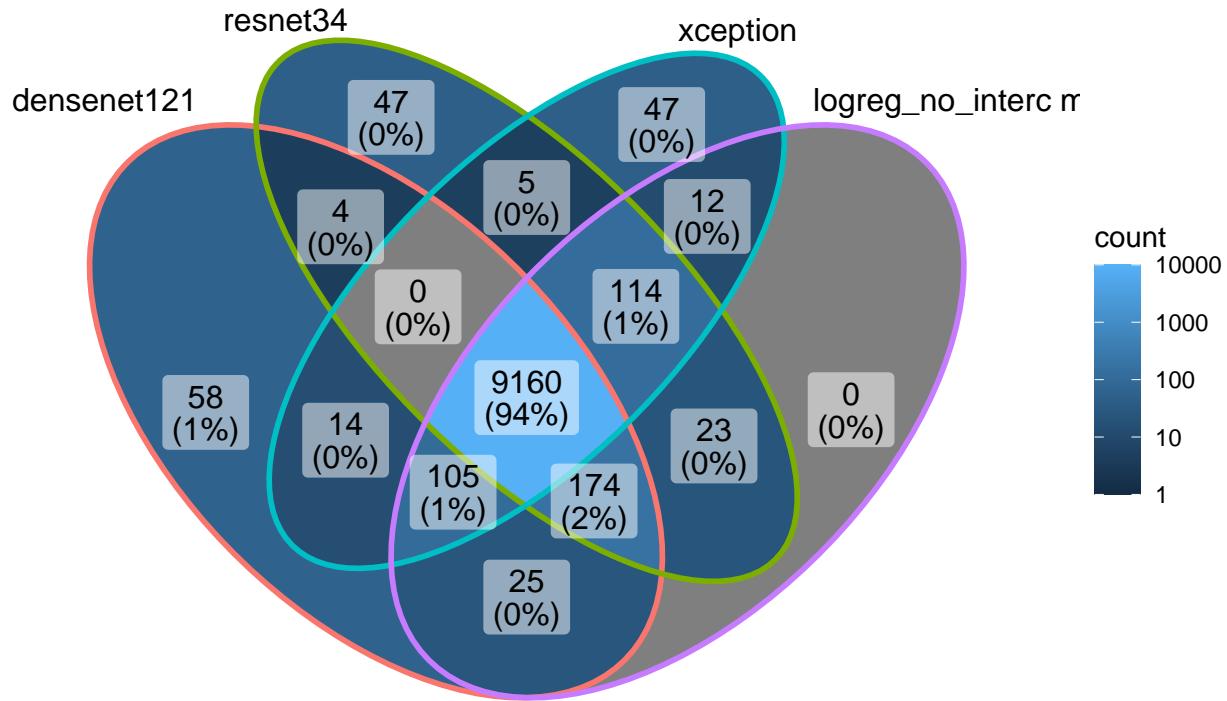


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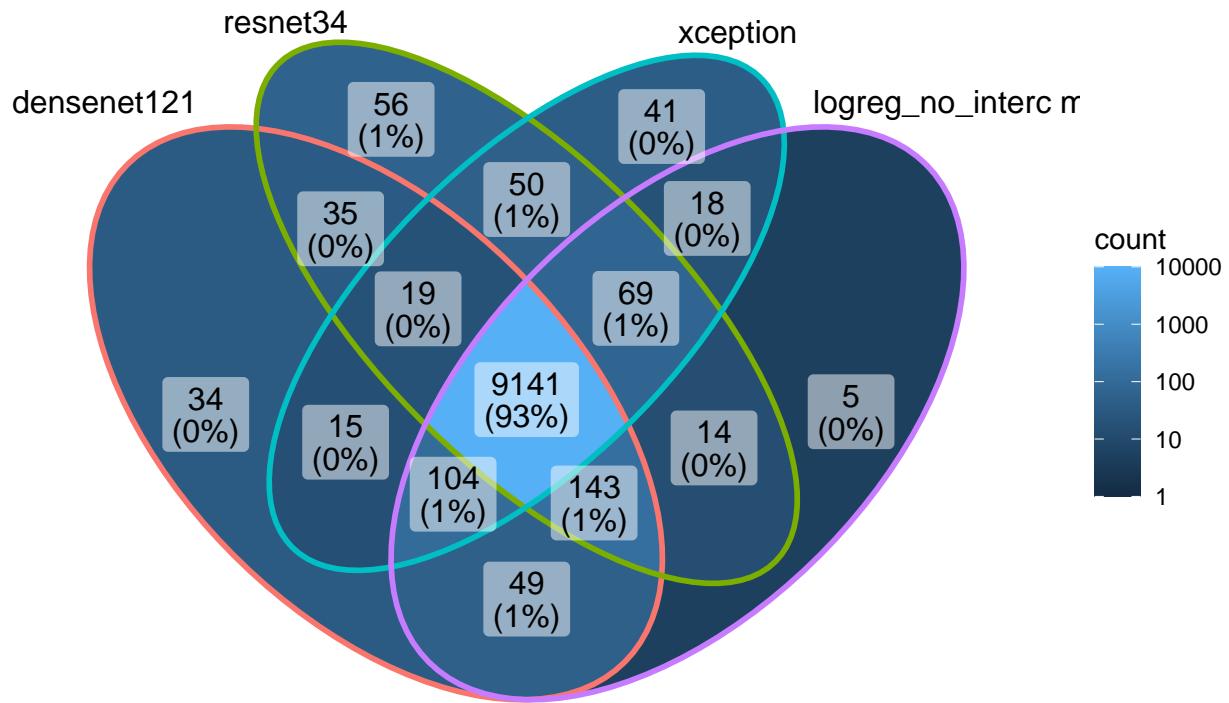


Warning: Transformation introduced infinite values in discrete y-axis

tt – replication 1

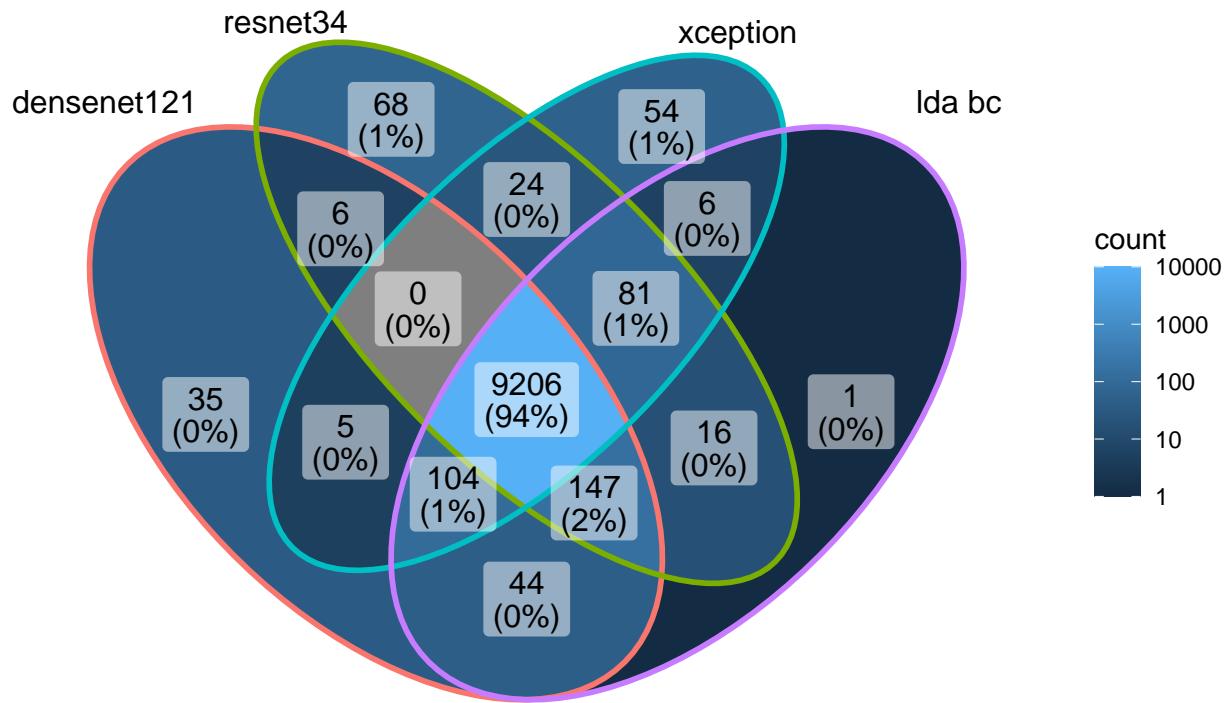


vt – replication 1

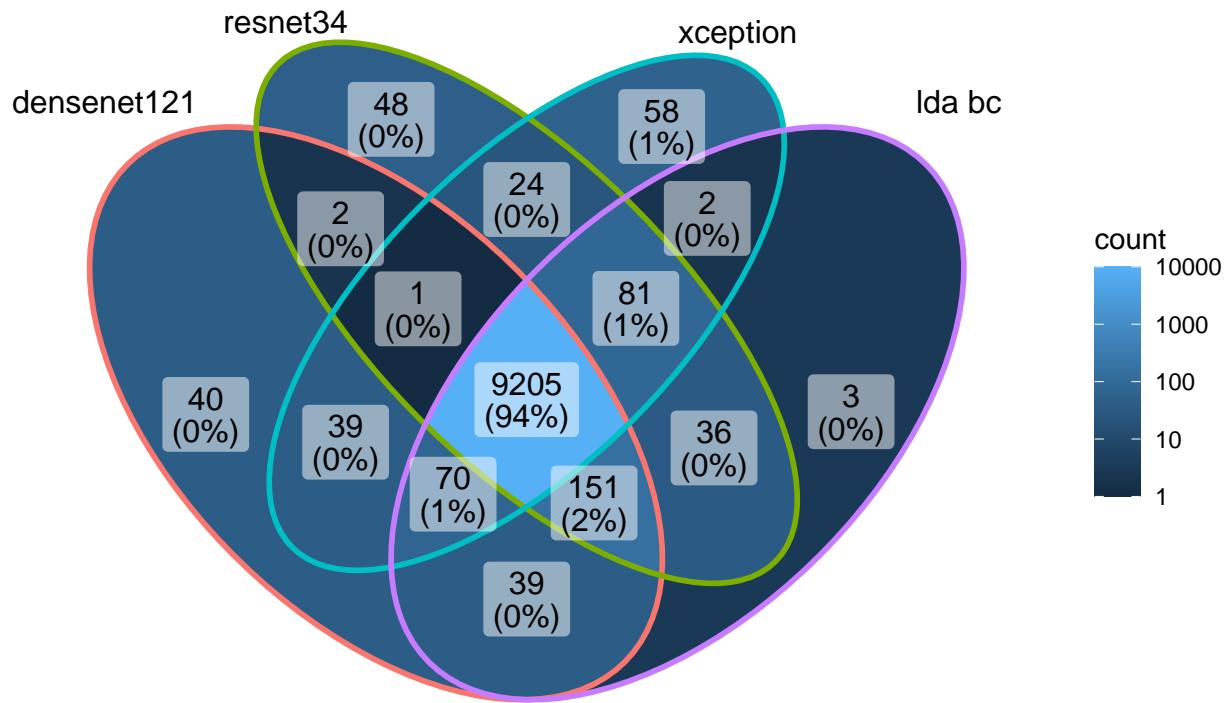


Warning: Transformation introduced infinite values in discrete y-axis

tt – replication 2

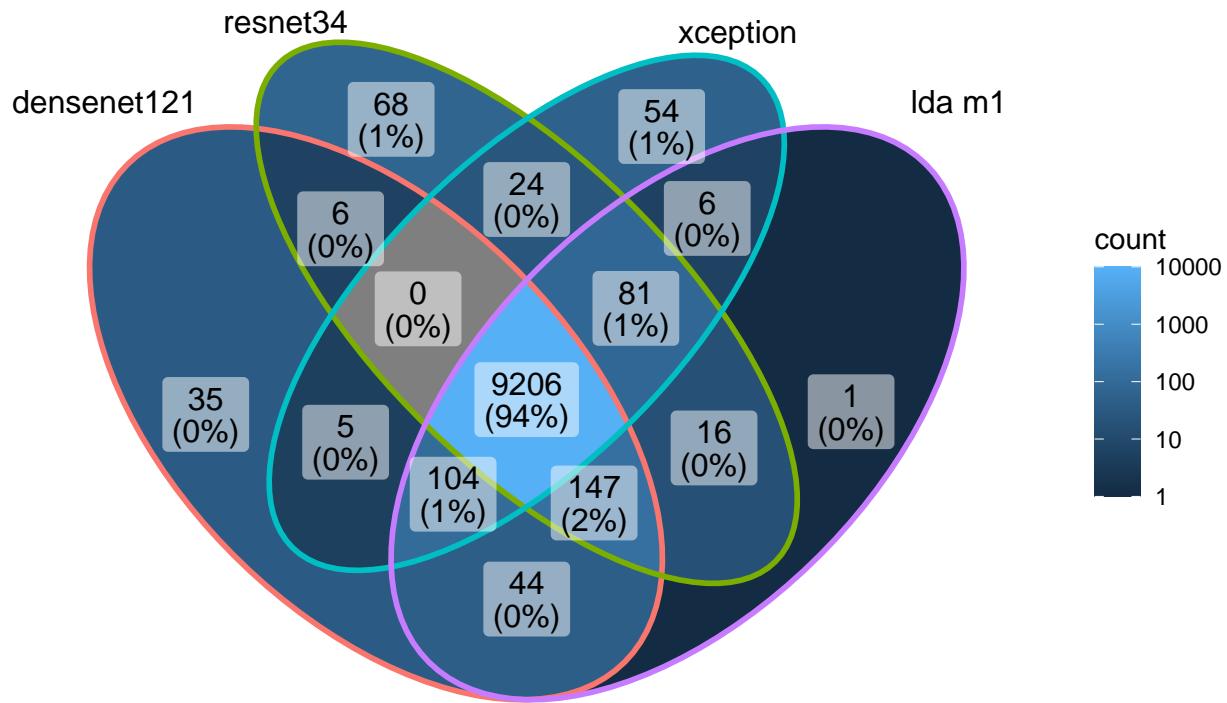


vt – replication 2



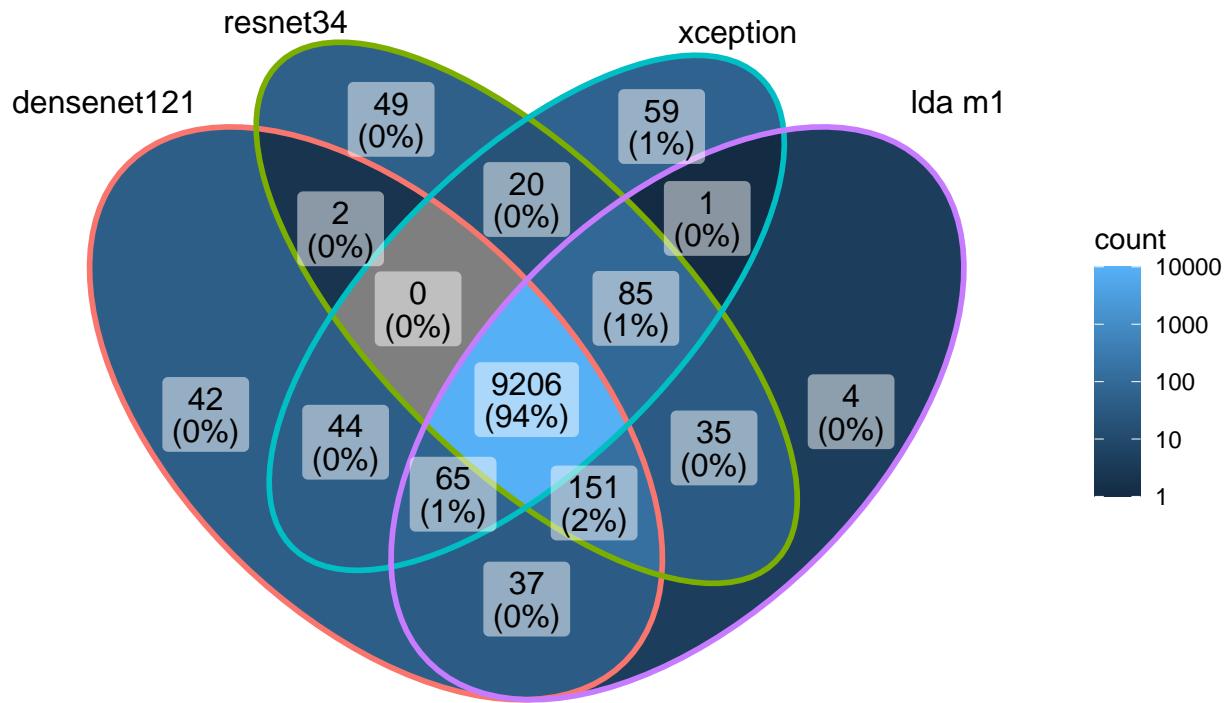
Warning: Transformation introduced infinite values in discrete y-axis

tt – replication 2



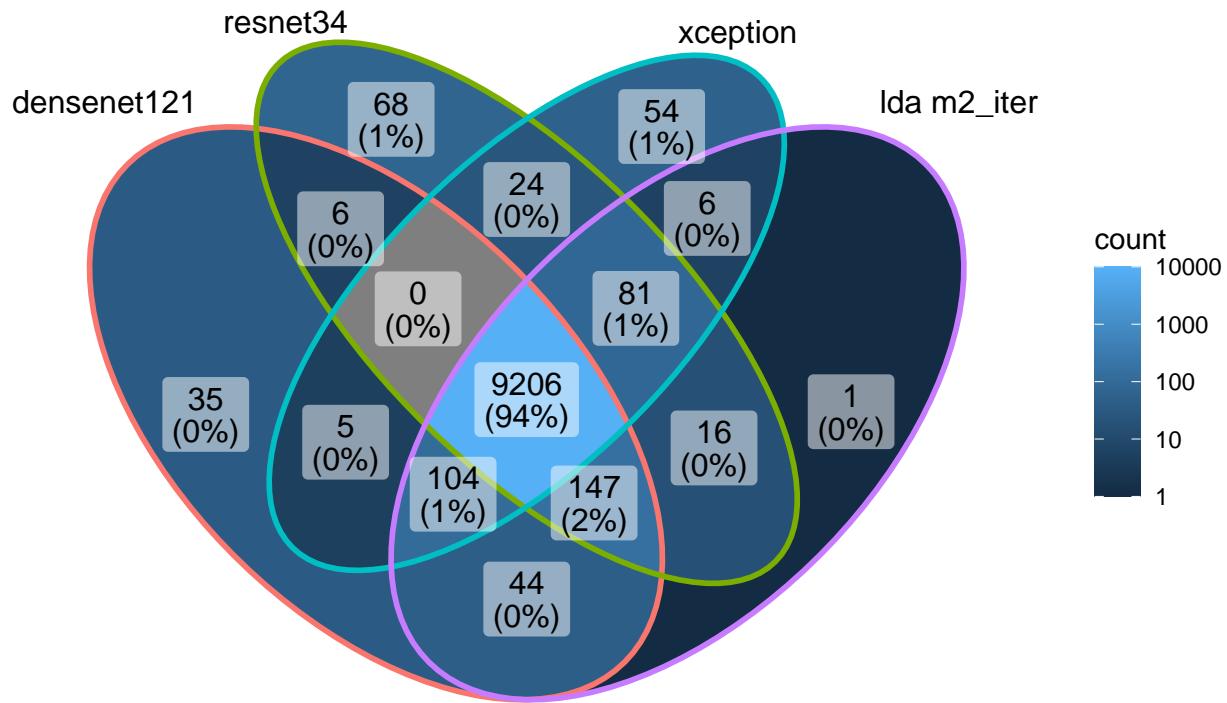
Warning: Transformation introduced infinite values in discrete y-axis

vt – replication 2



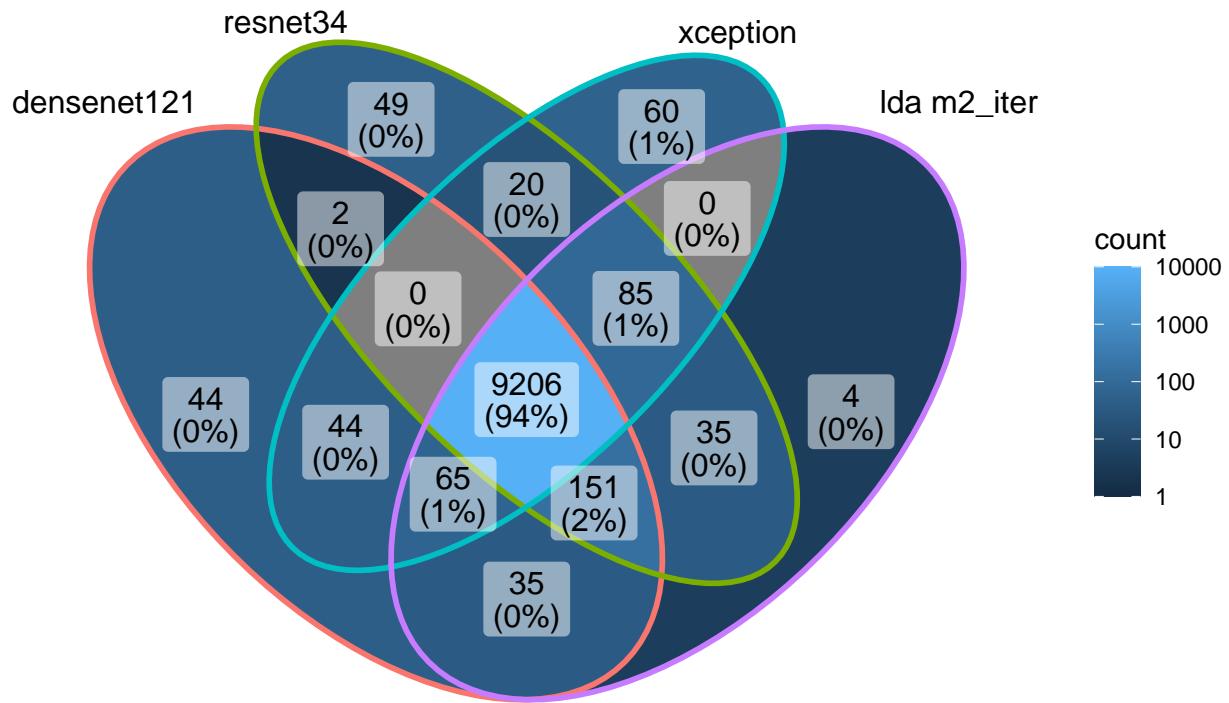
Warning: Transformation introduced infinite values in discrete y-axis

tt – replication 2



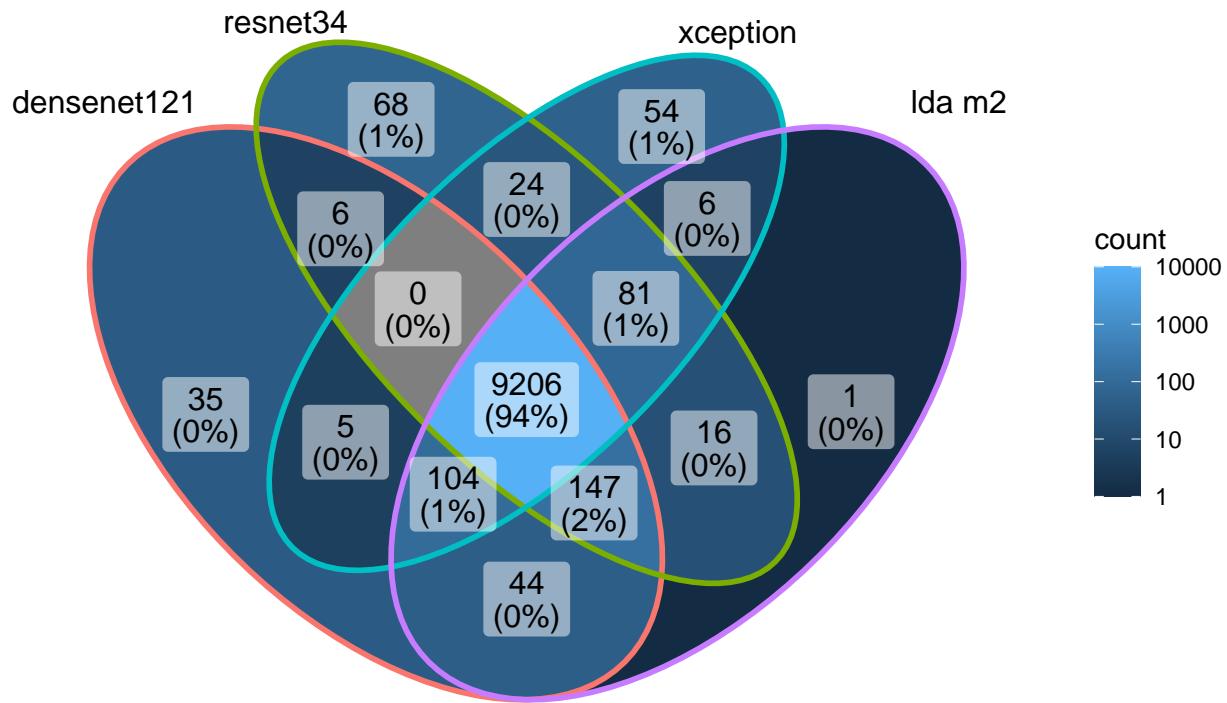
Warning: Transformation introduced infinite values in discrete y-axis

vt – replication 2



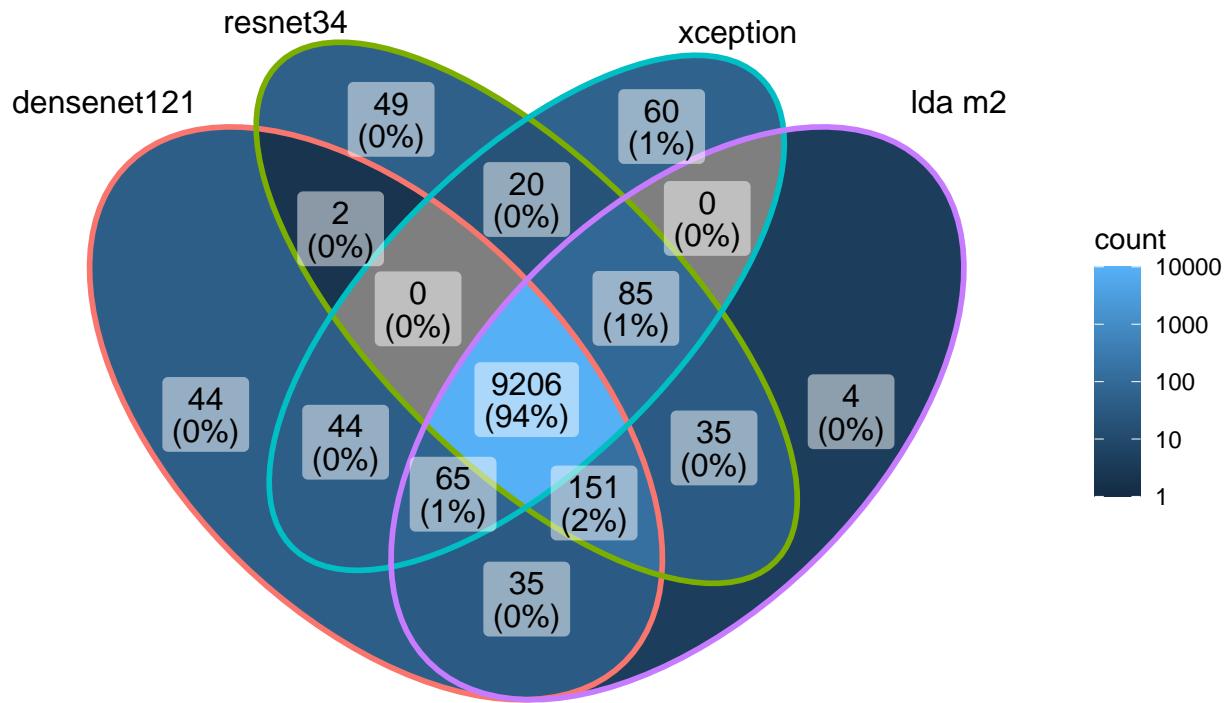
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tt – replication 2



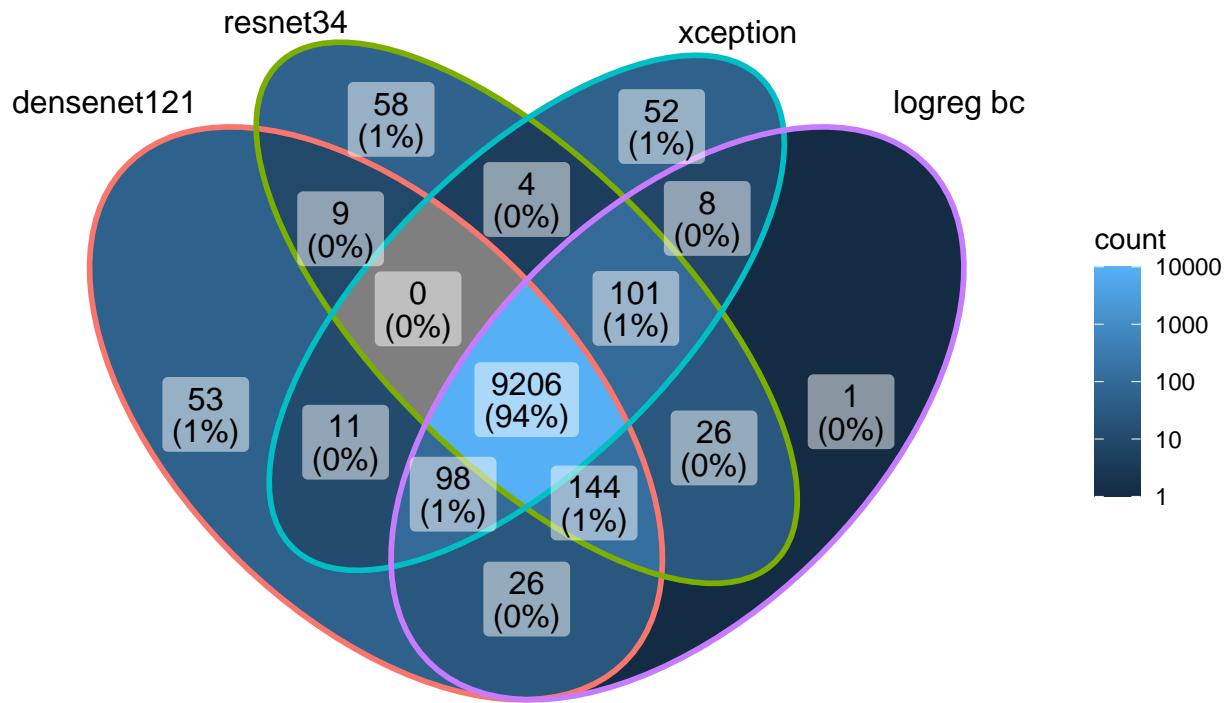
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vt – replication 2

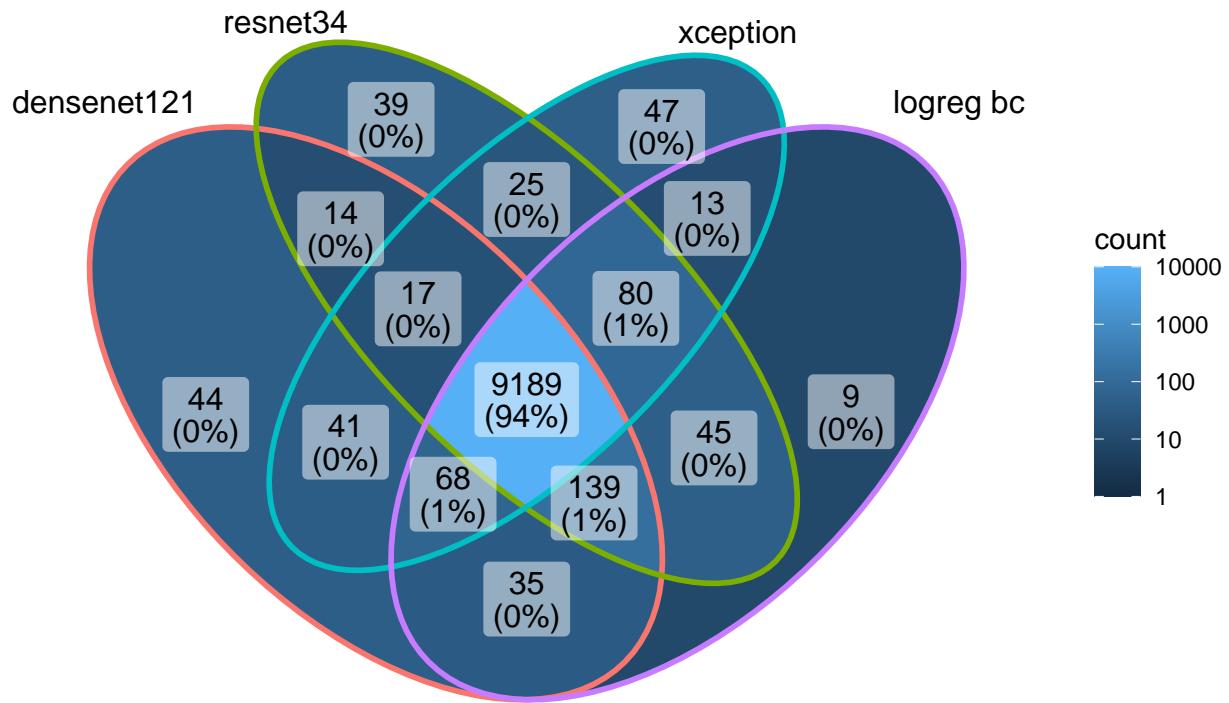


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tt – replication 2

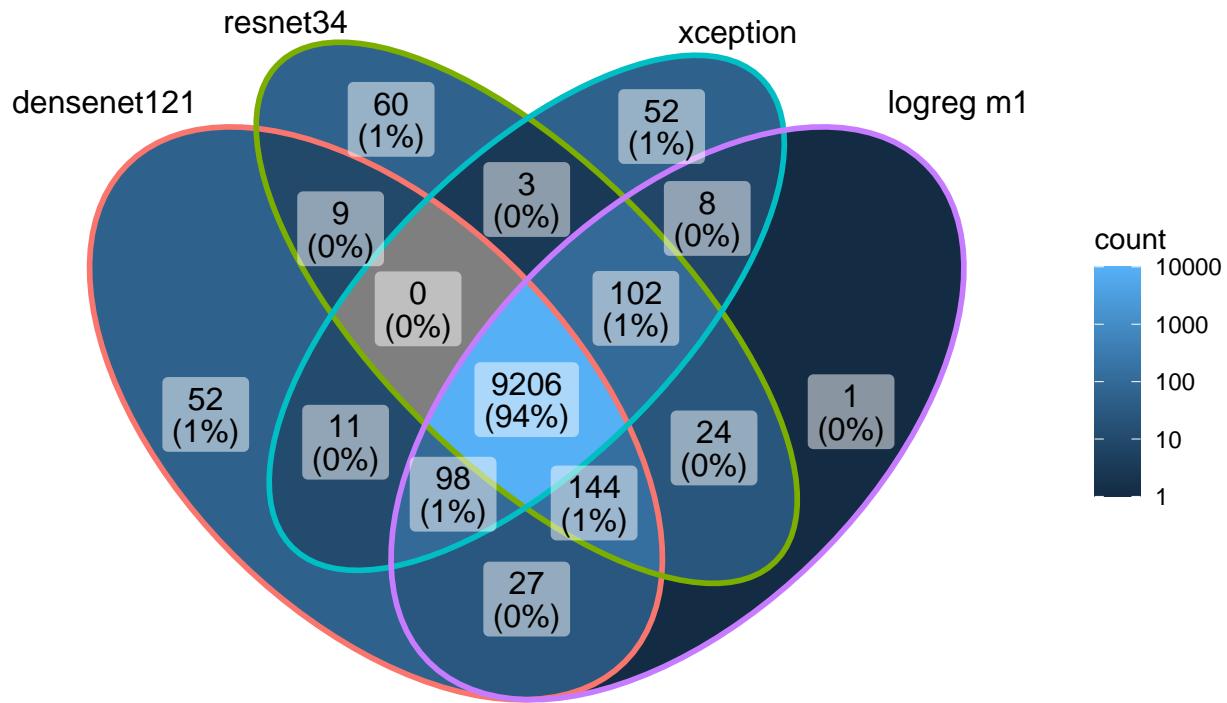


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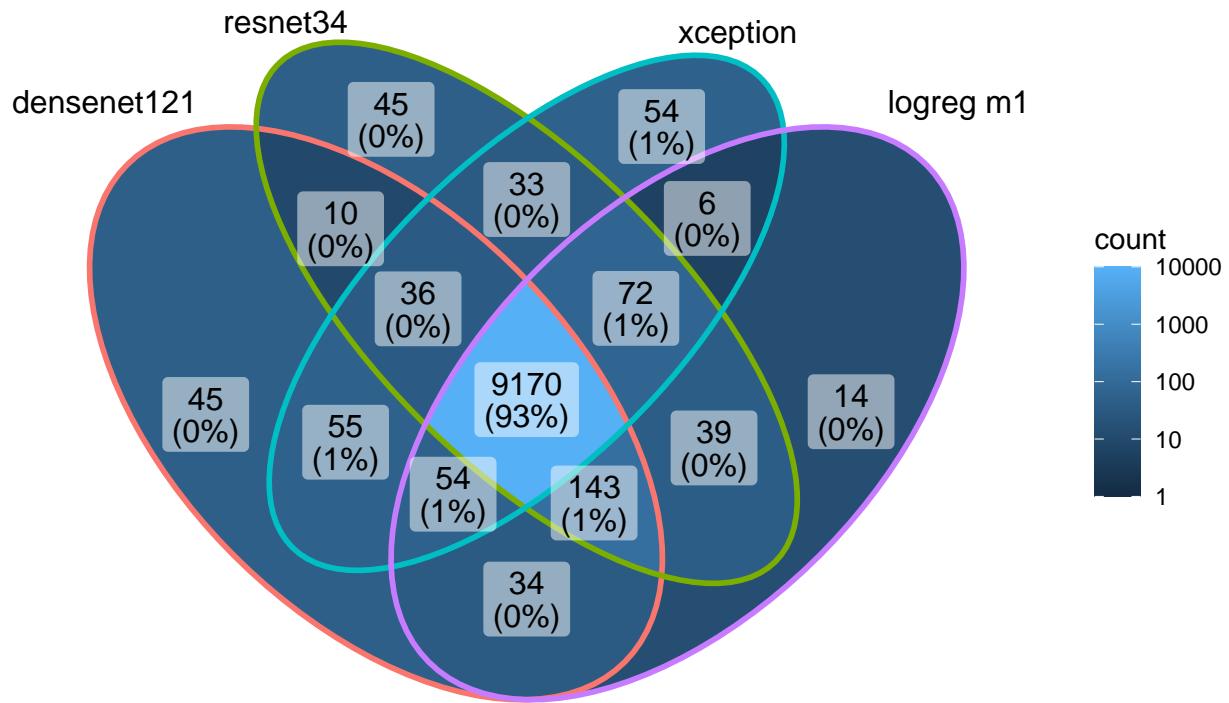


Warning: Transformation introduced infinite values in discrete y-axis

tt – replication 2

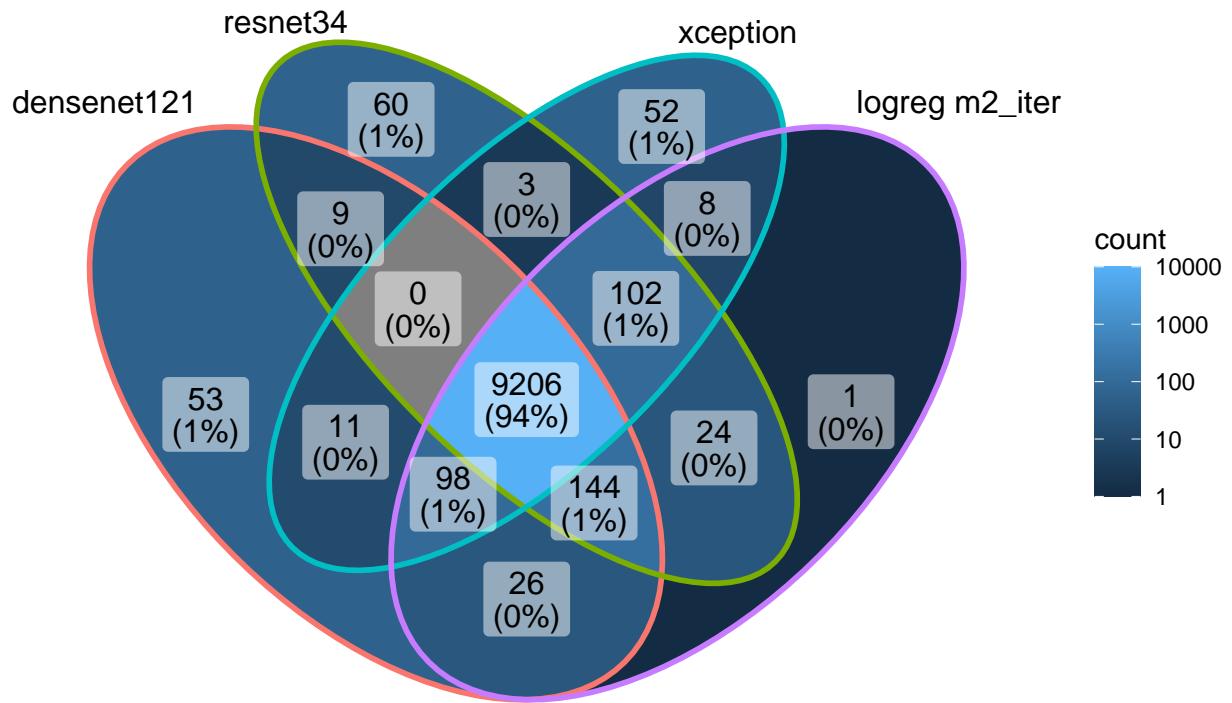


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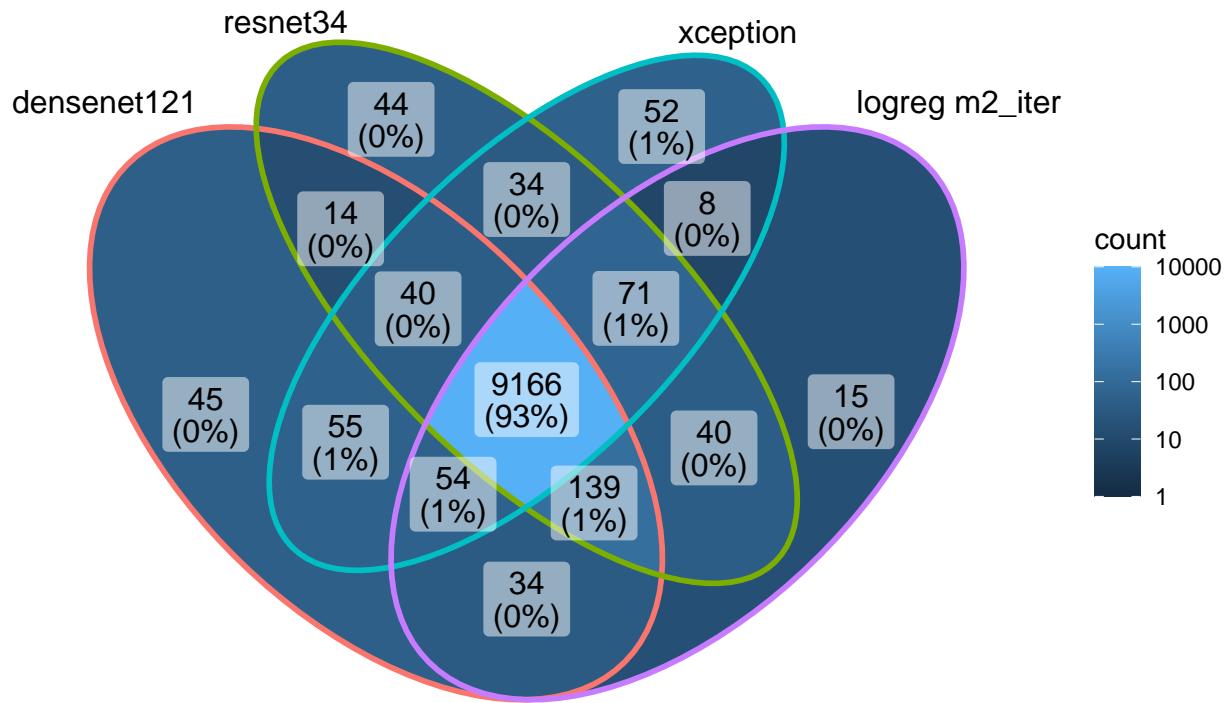


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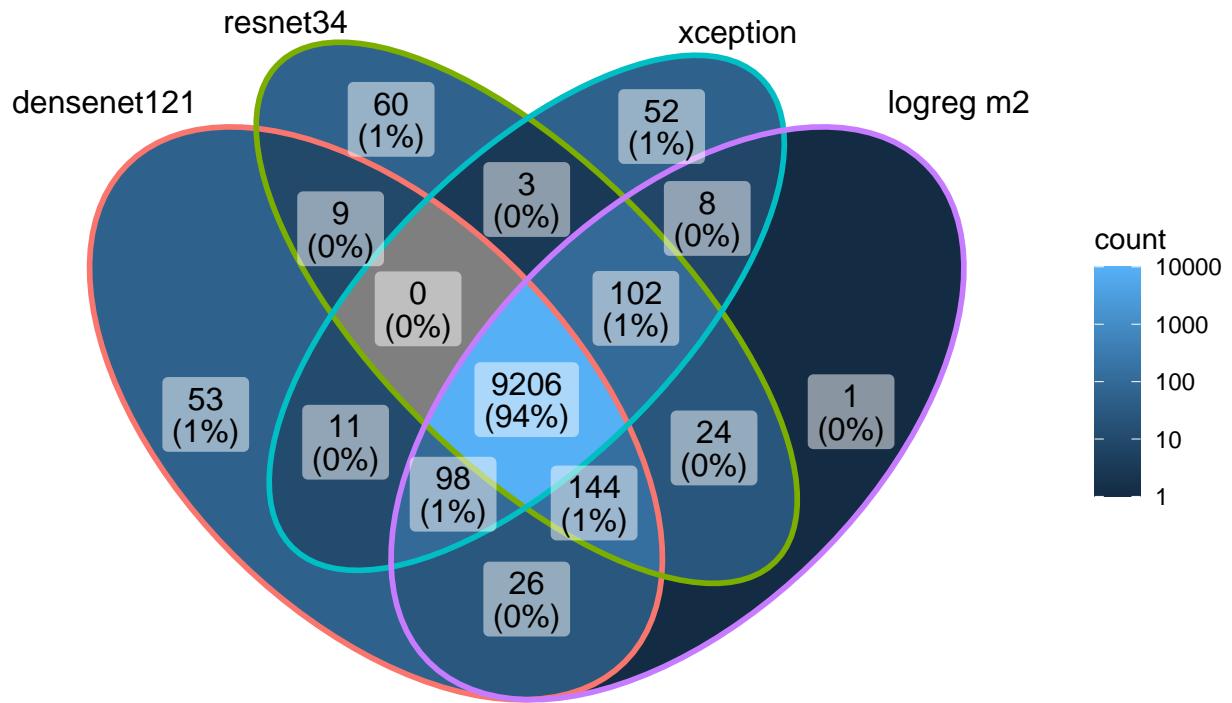


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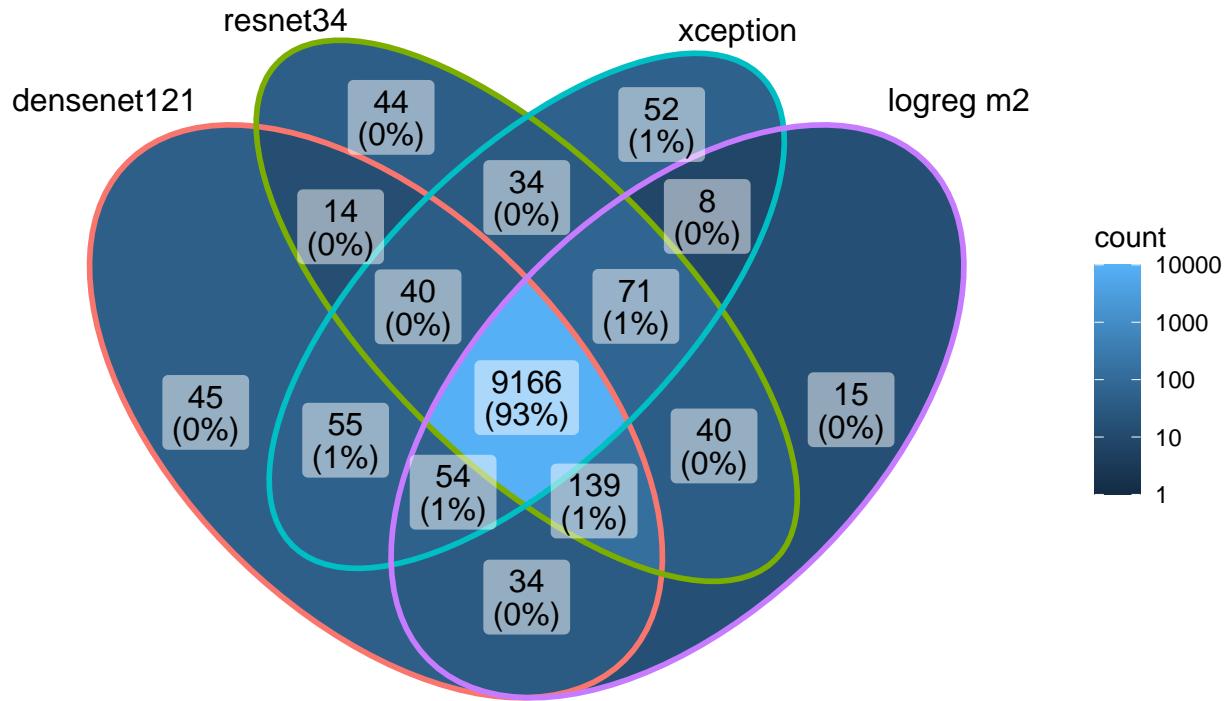


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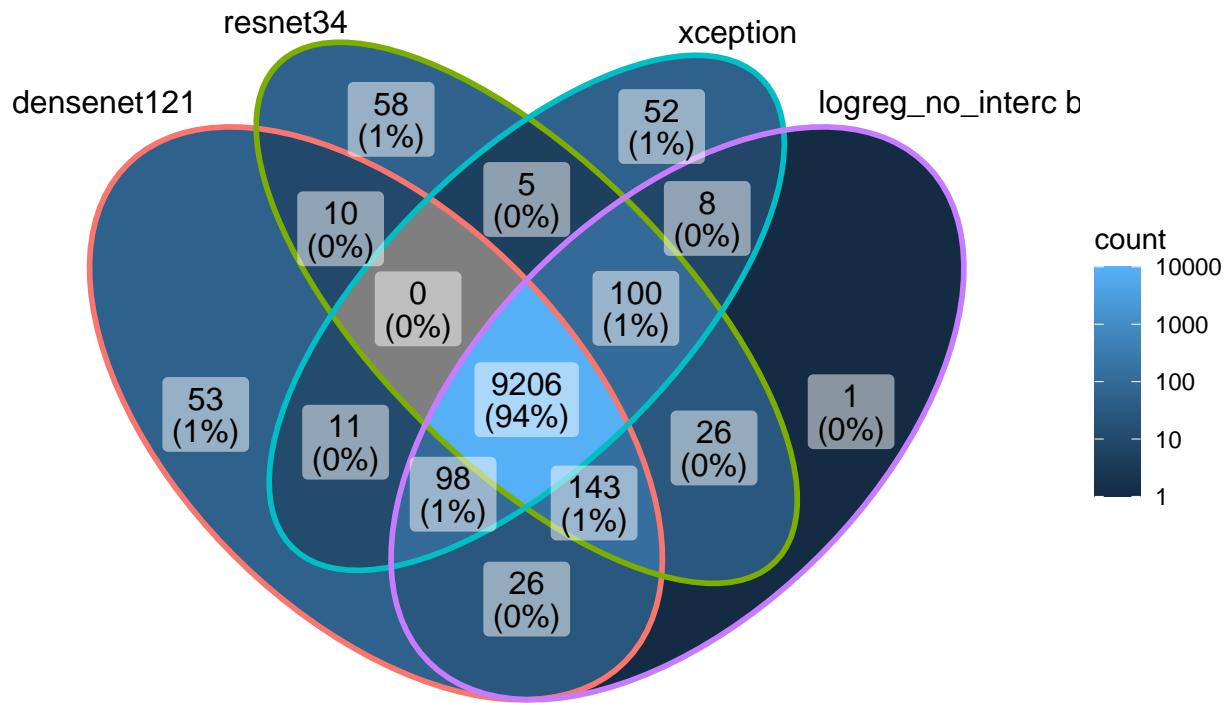


vt – replication 2



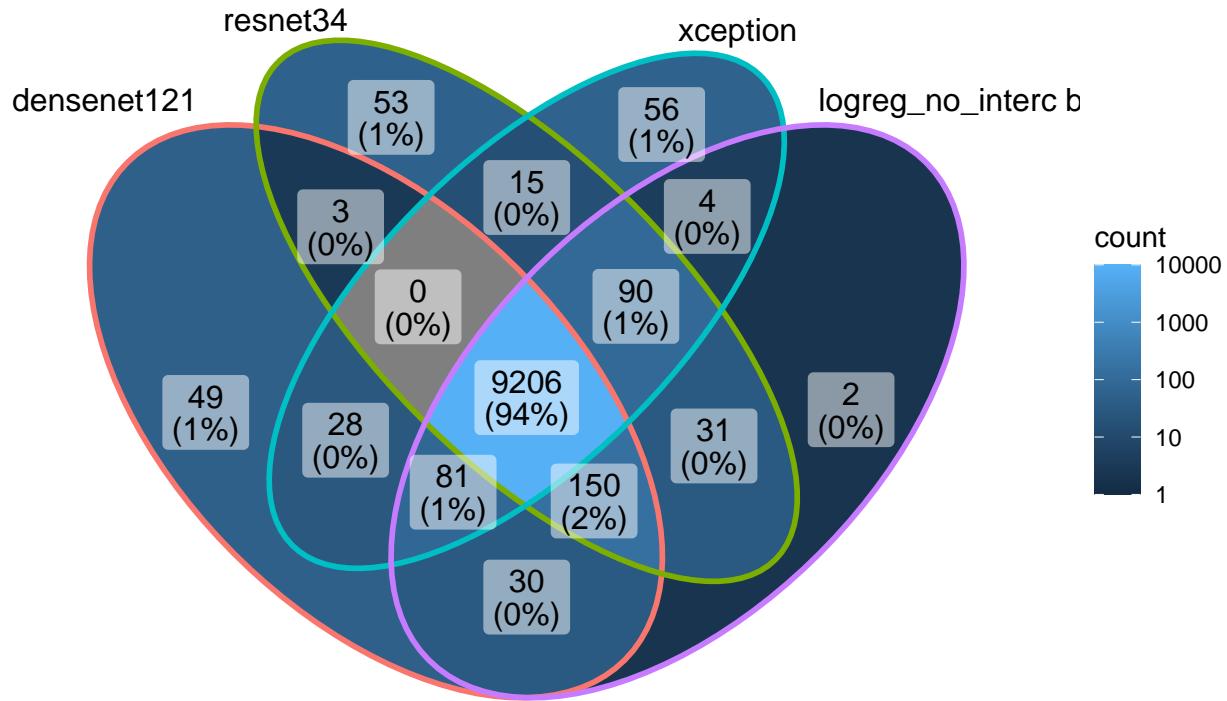
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tt – replication 2



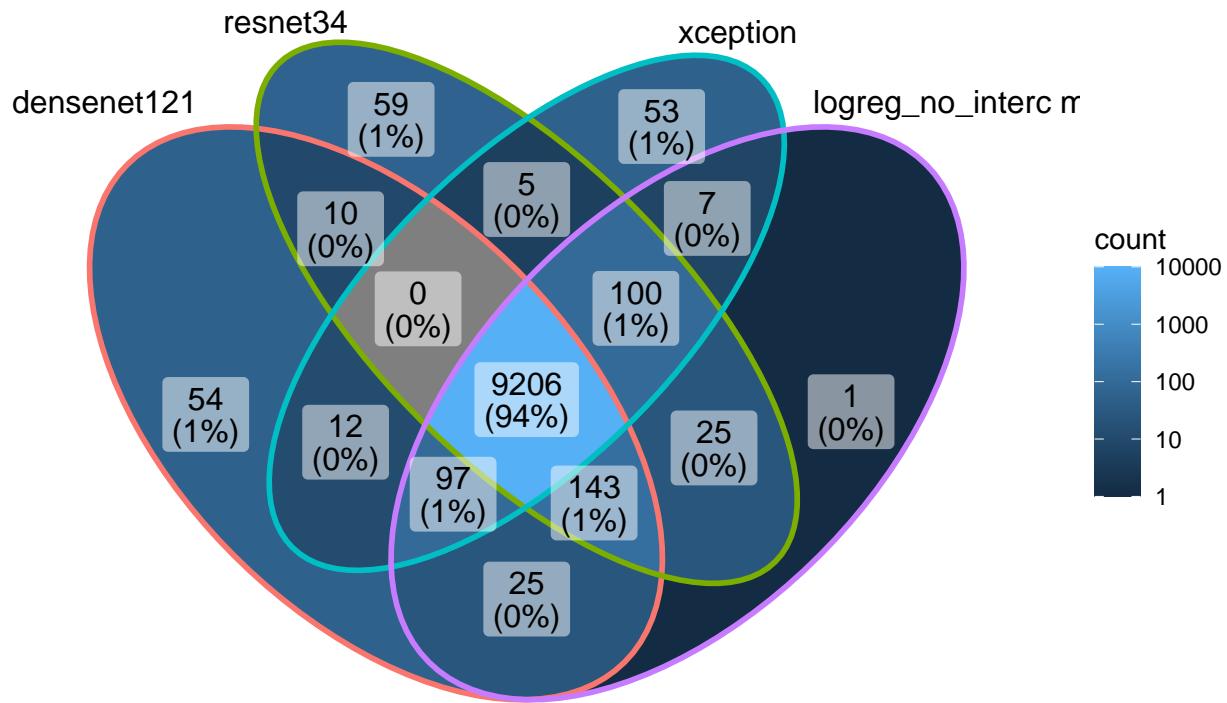
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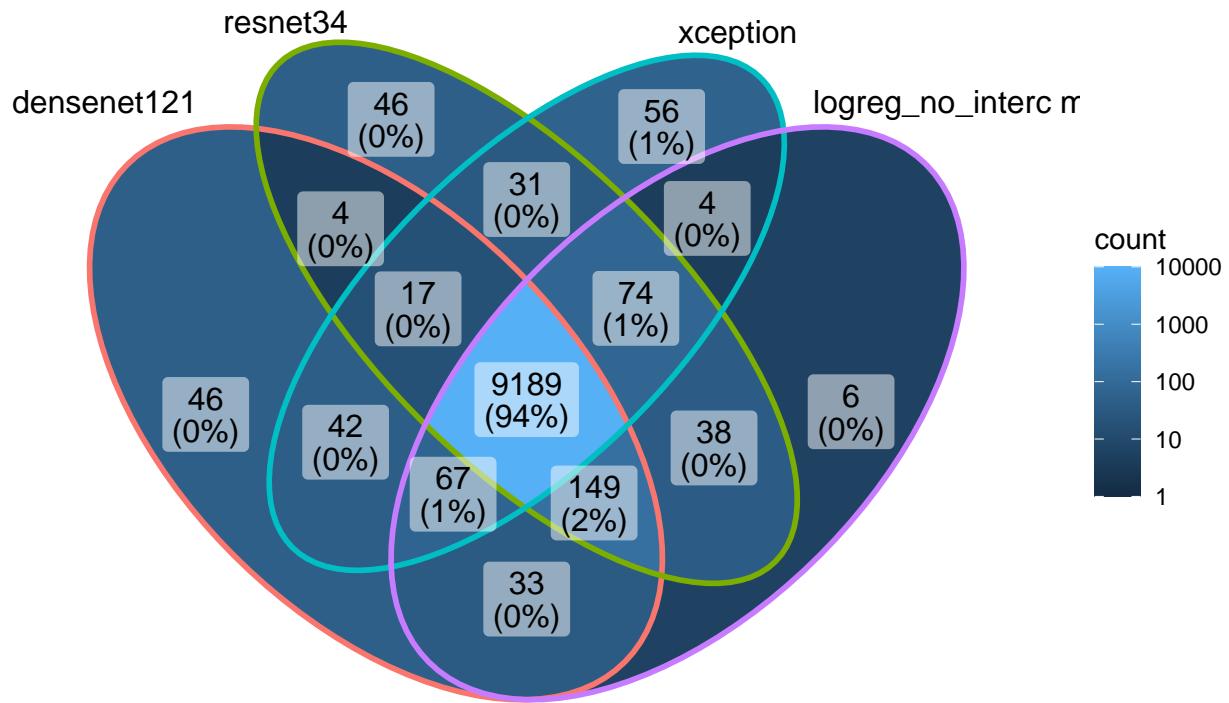


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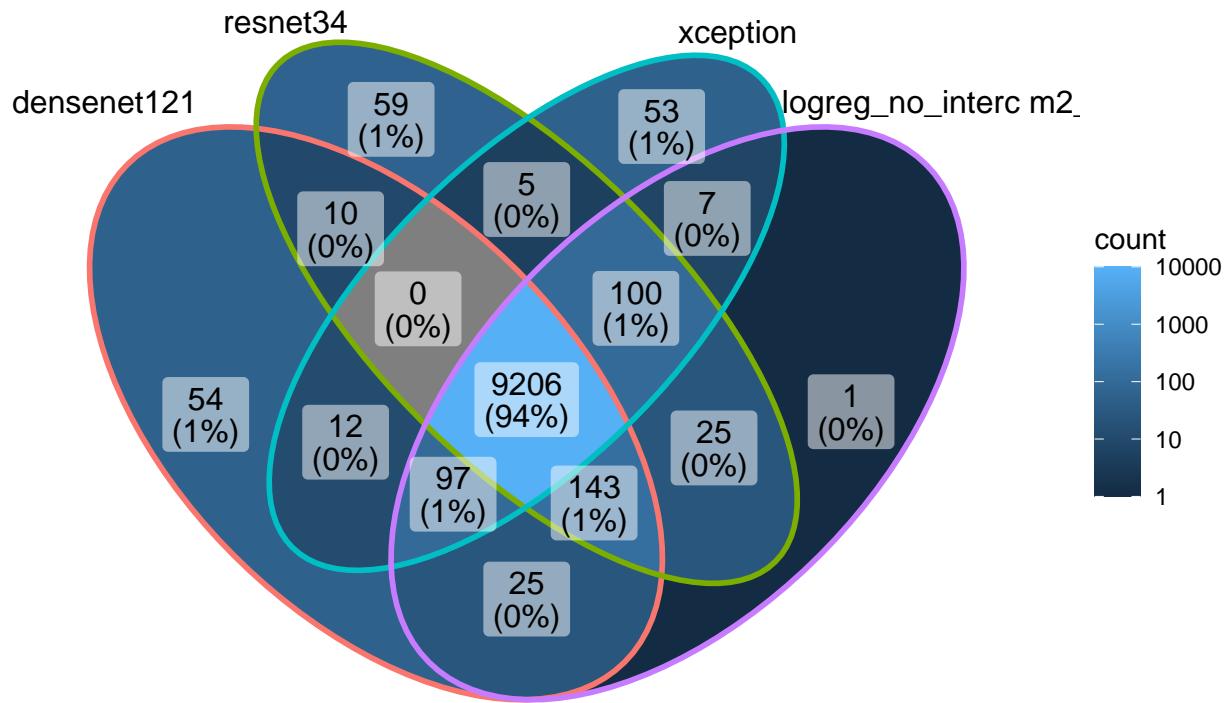


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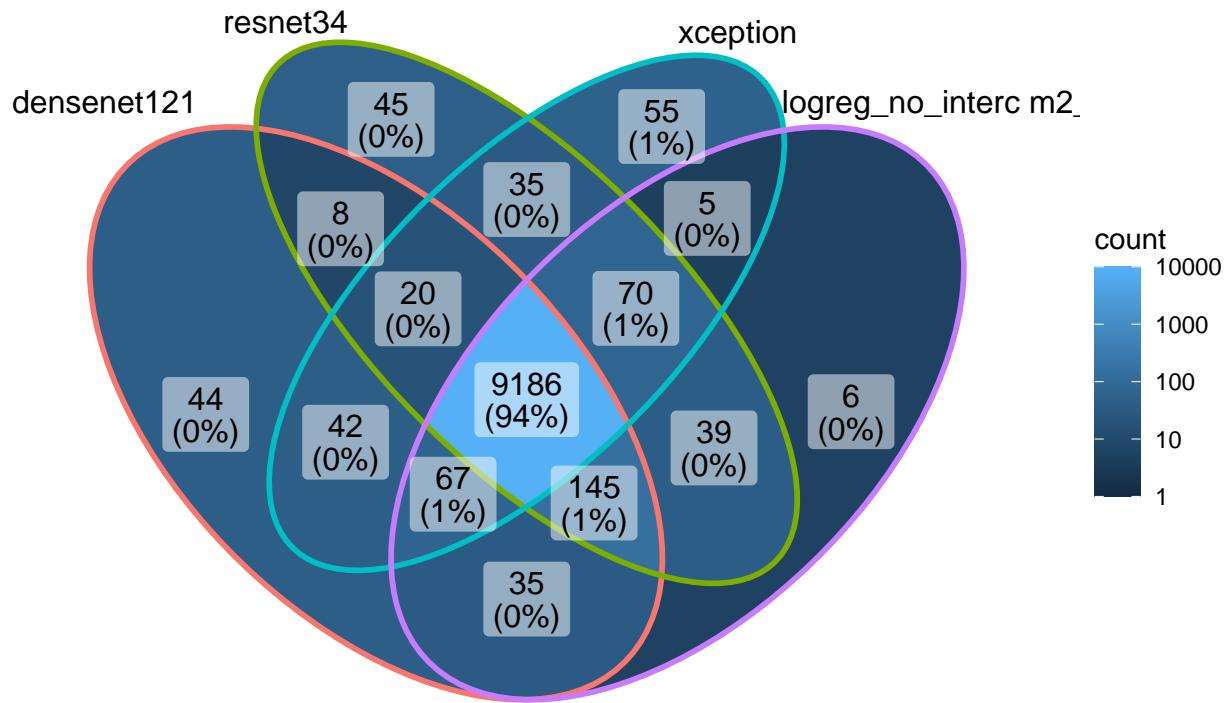


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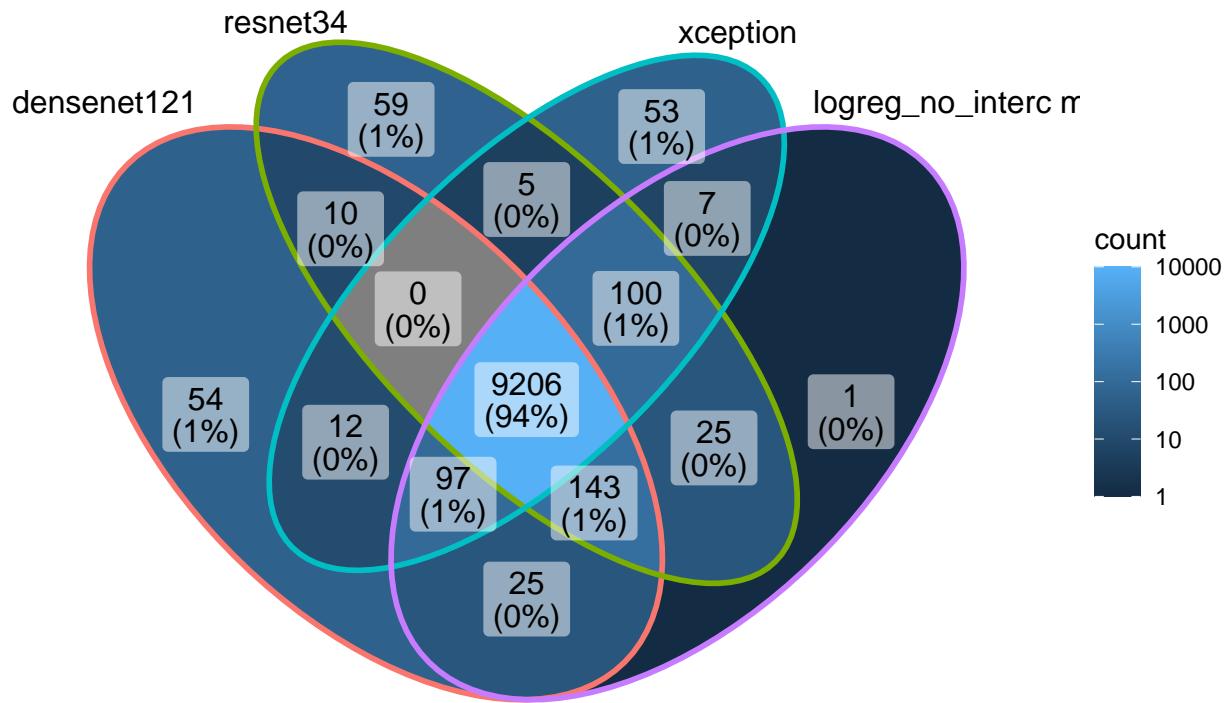


vt – replication 2

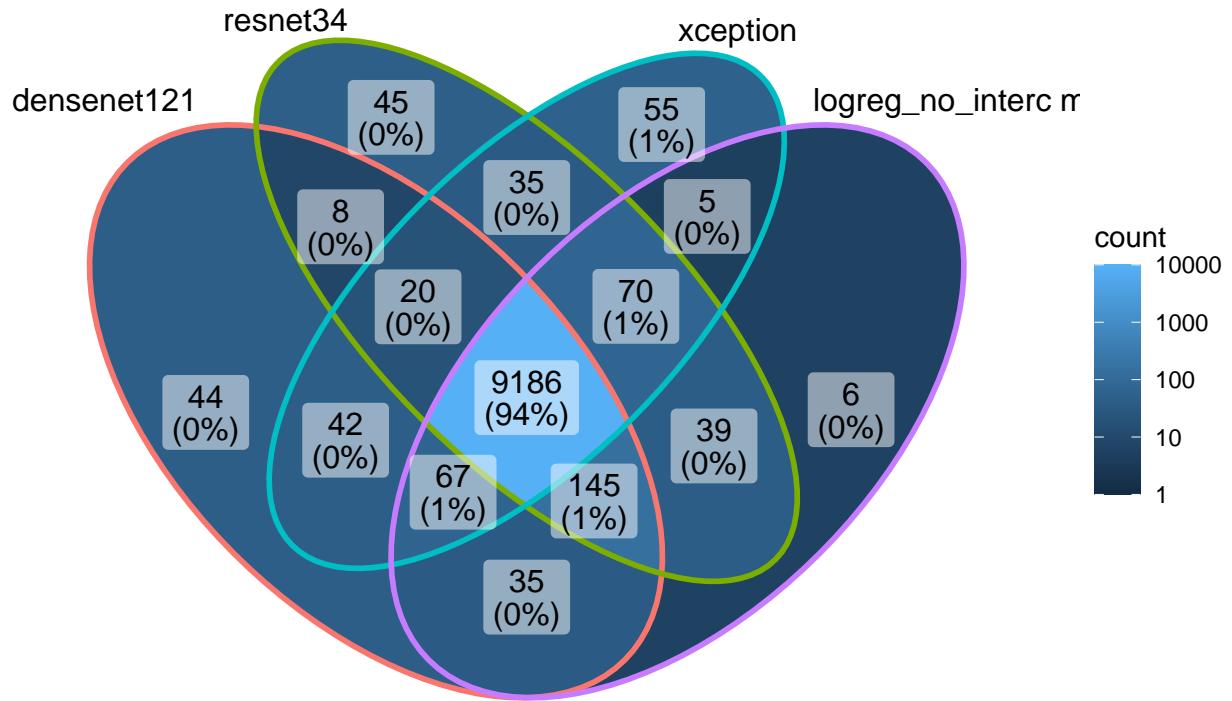


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tt – replication 2

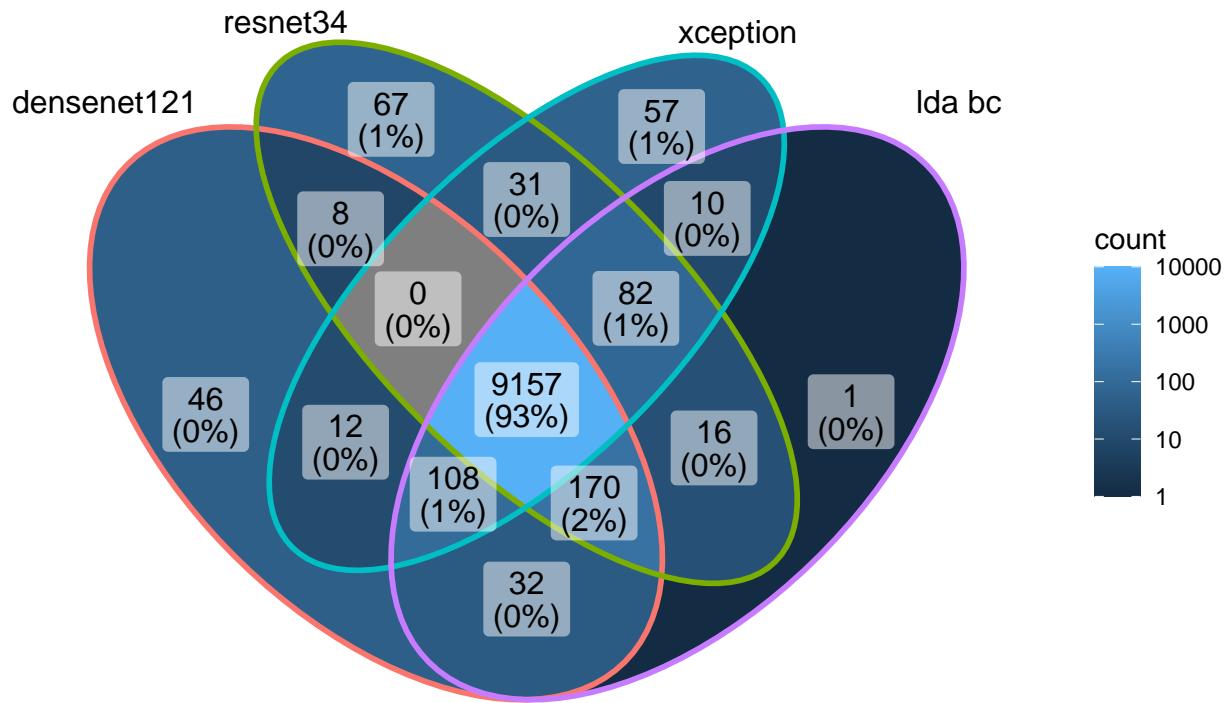


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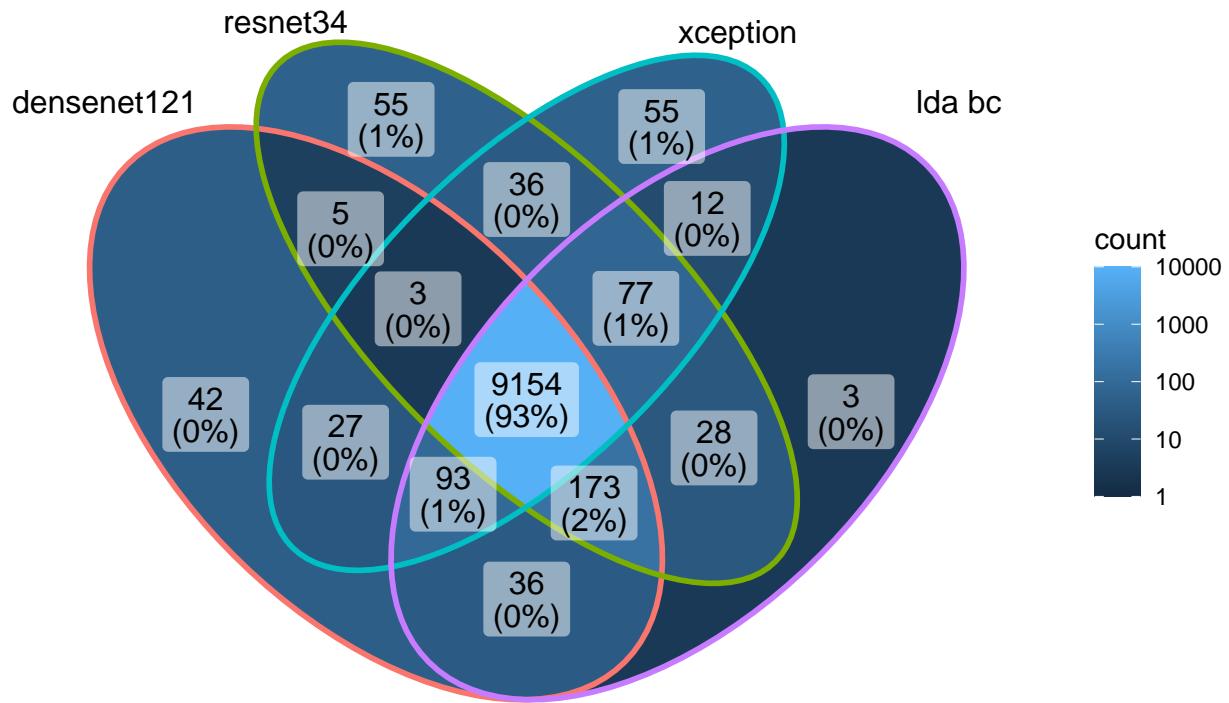


Warning: Transformation introduced infinite values in discrete y-axis

tt – replication 3

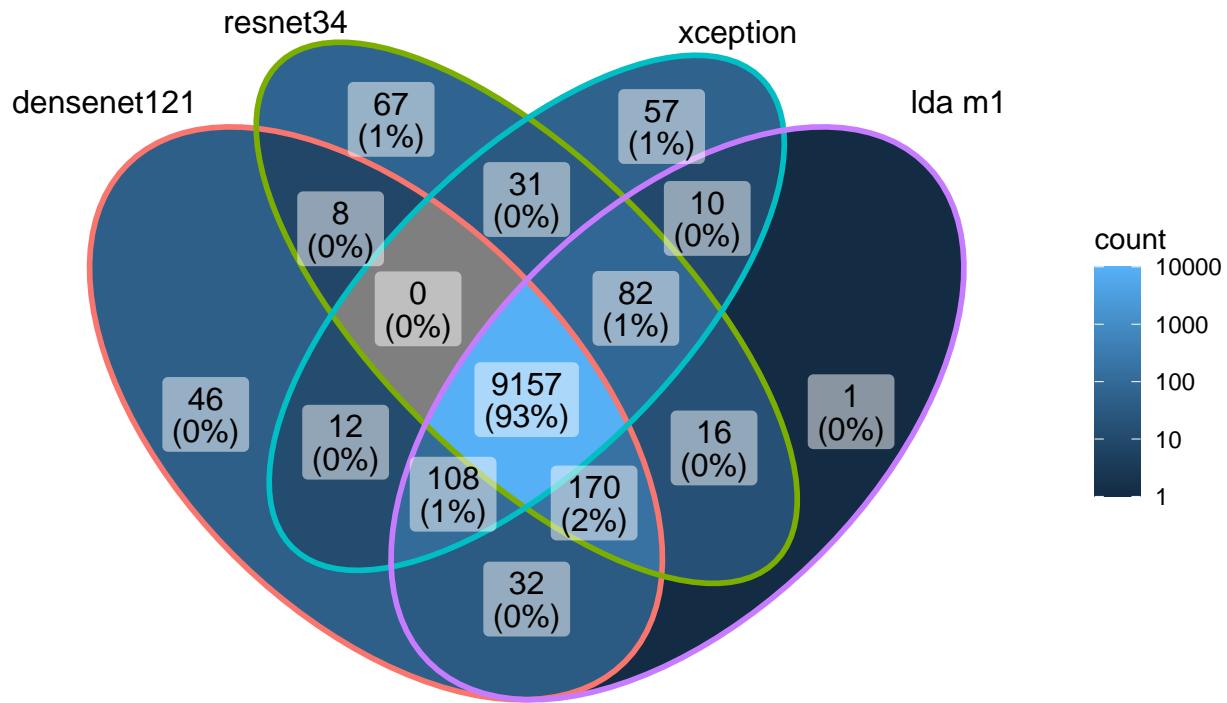


vt – replication 3

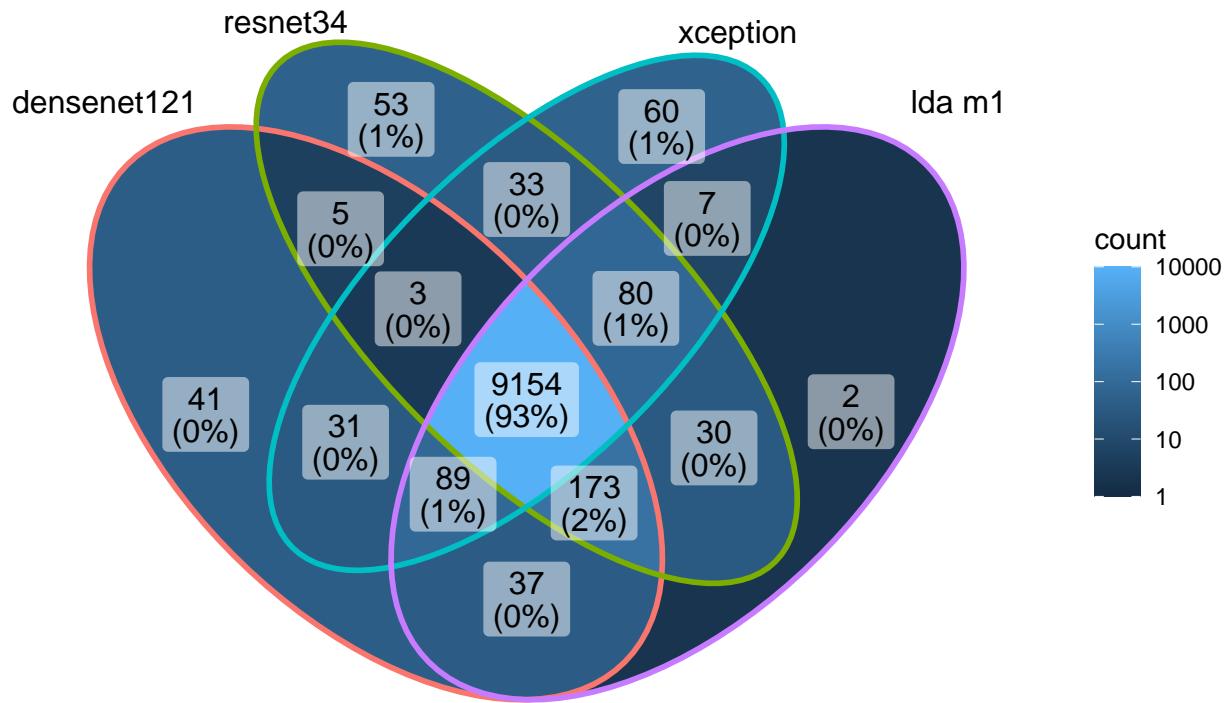


Warning: Transformation introduced infinite values in discrete y-axis

tt – replication 3

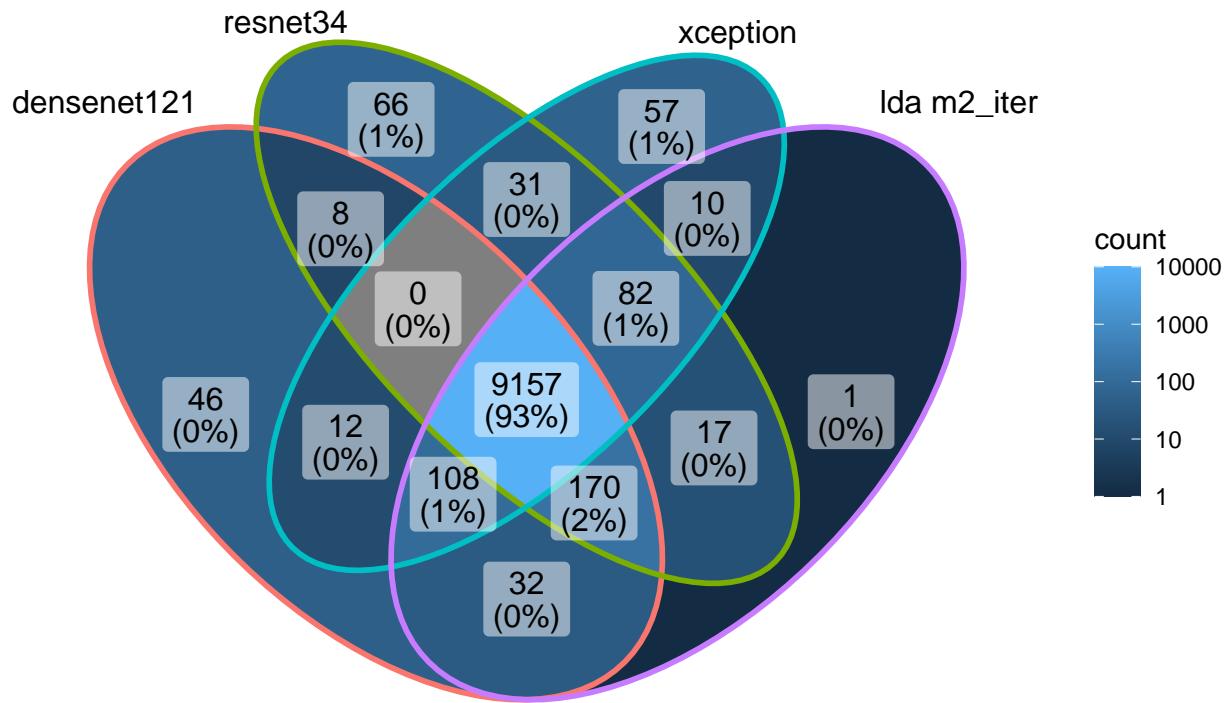


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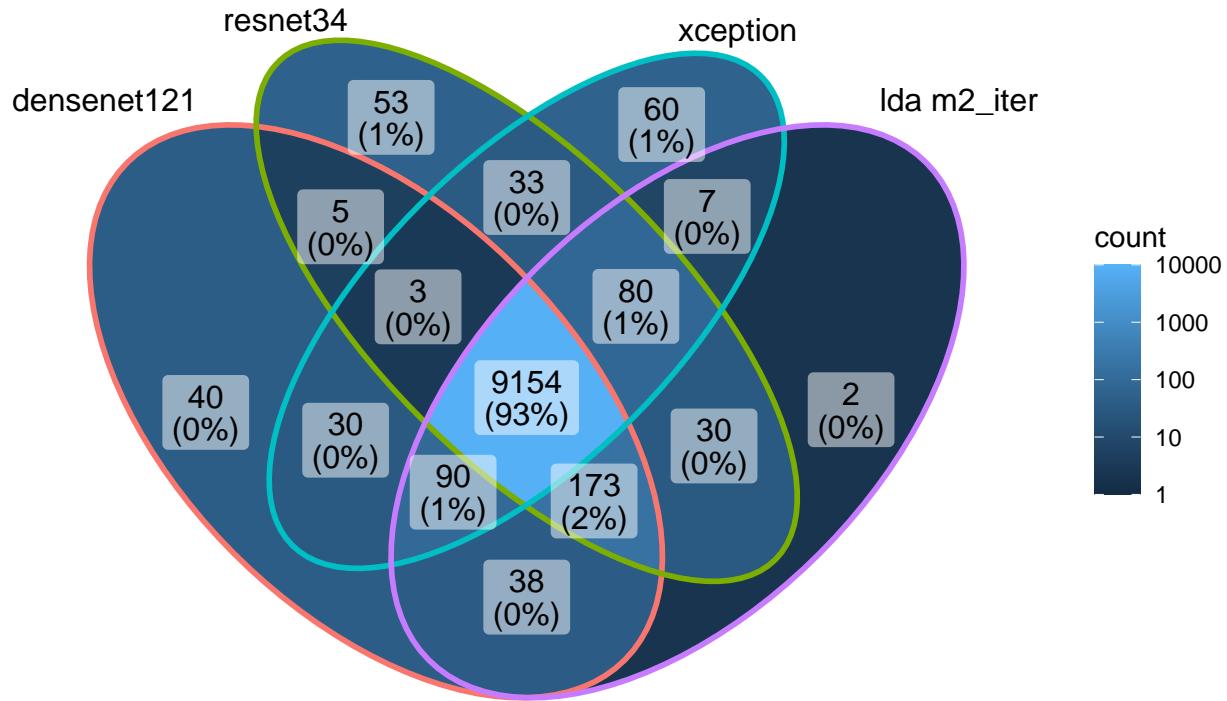


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tt – replication 3

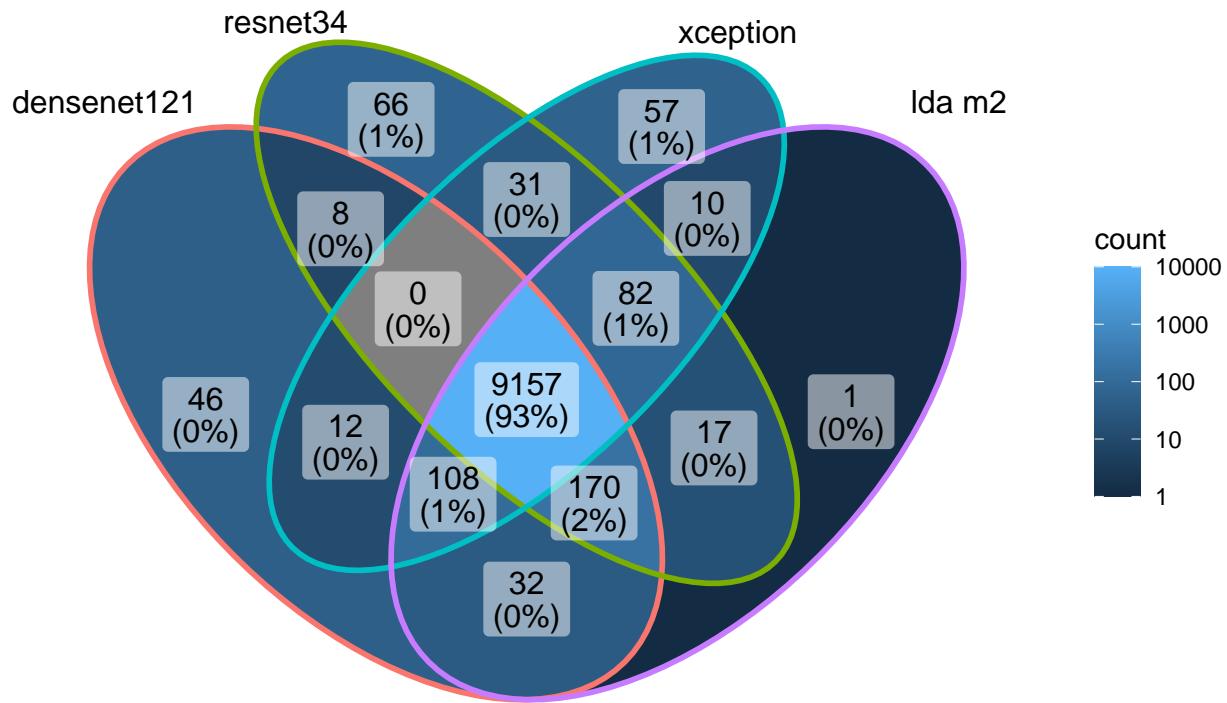


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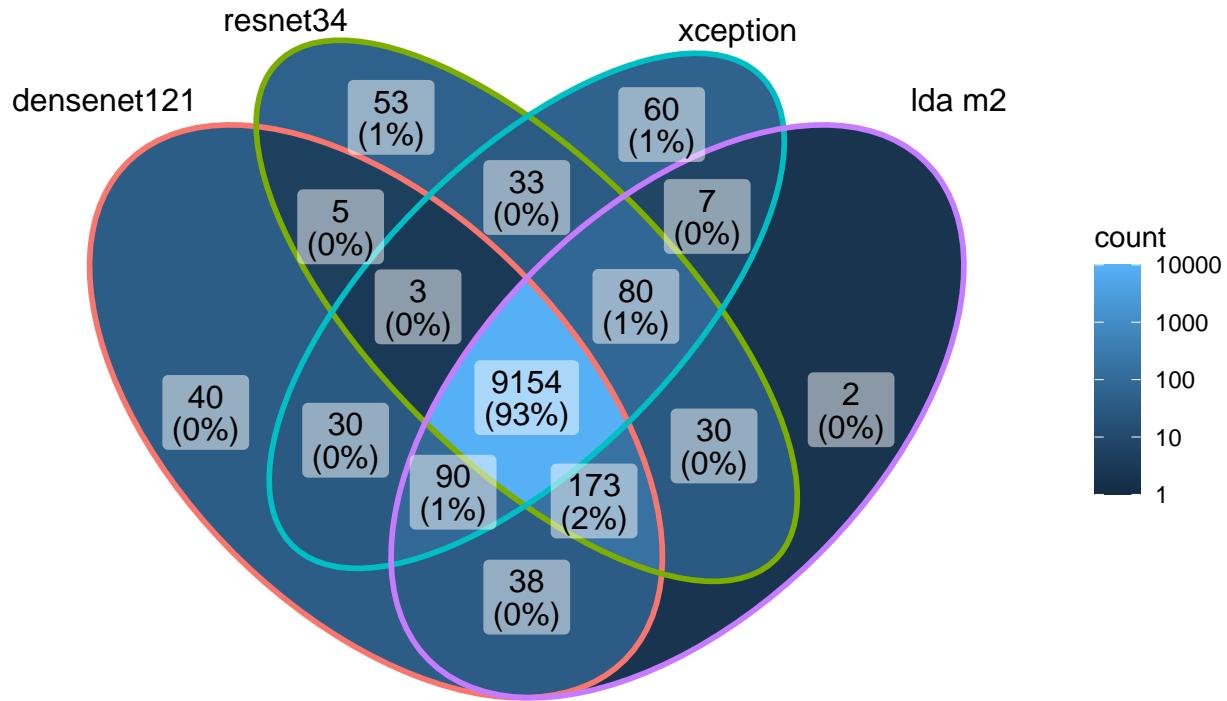


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tt – replication 3

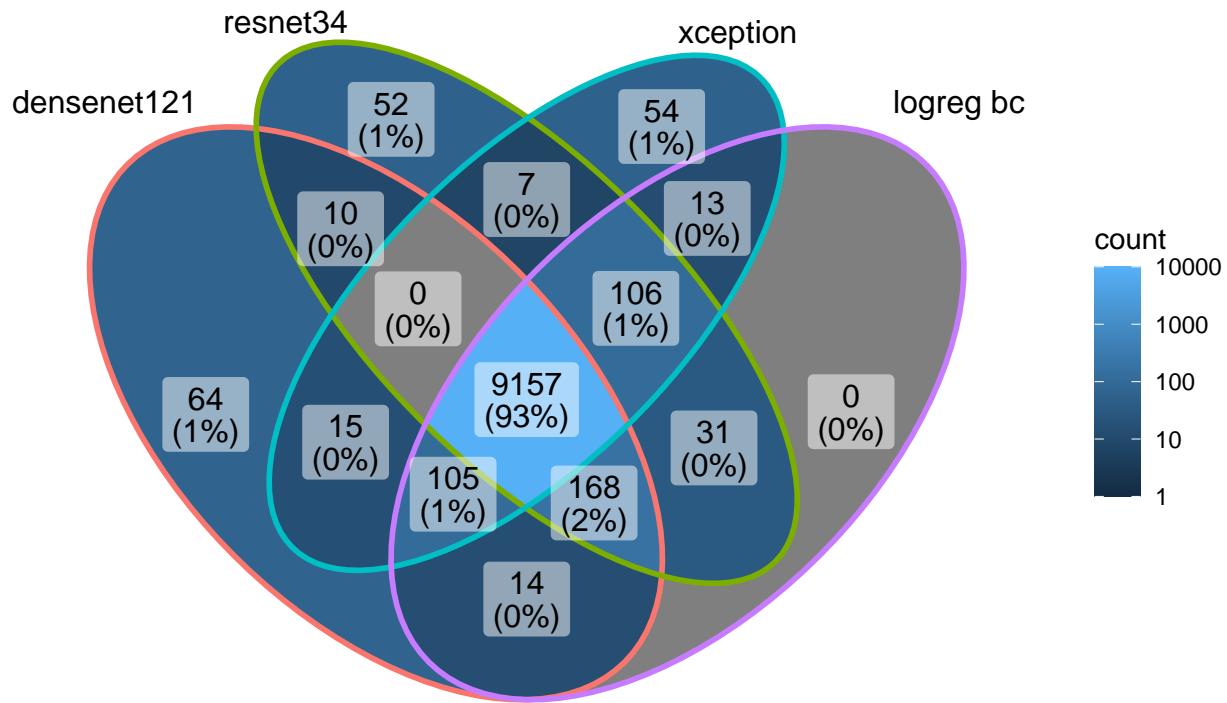


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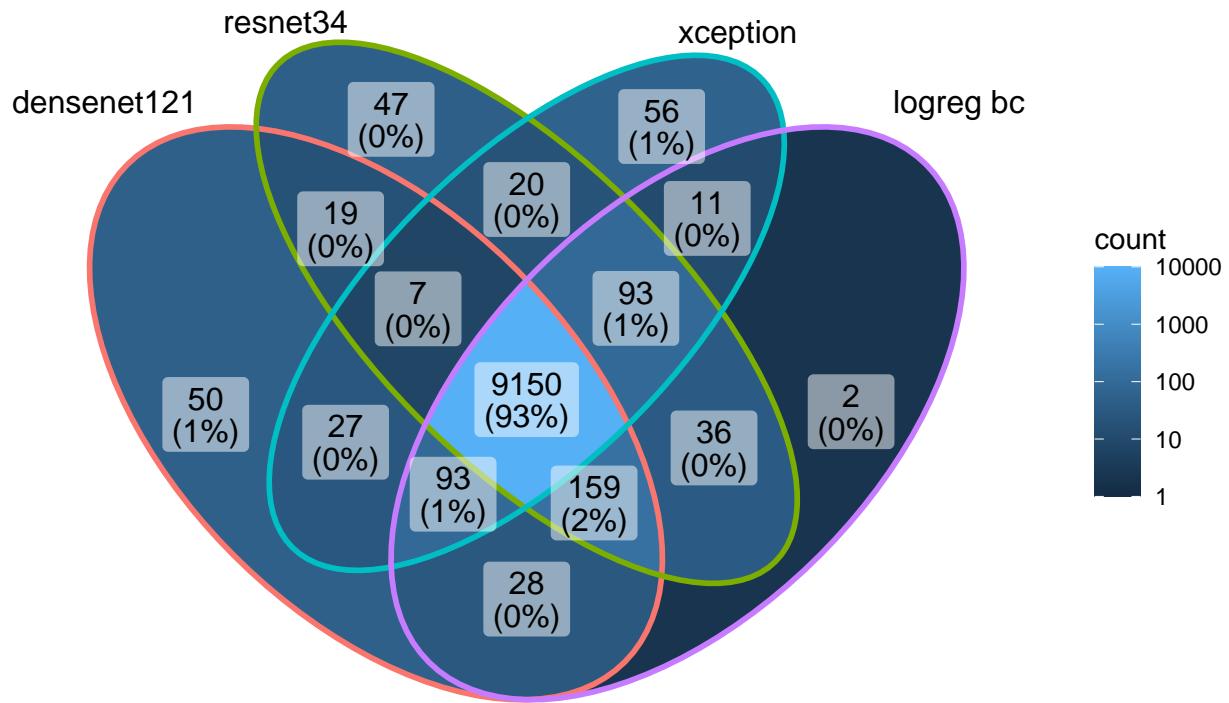


Warning: Transformation introduced infinite values in discrete y-axis

tt – replication 3

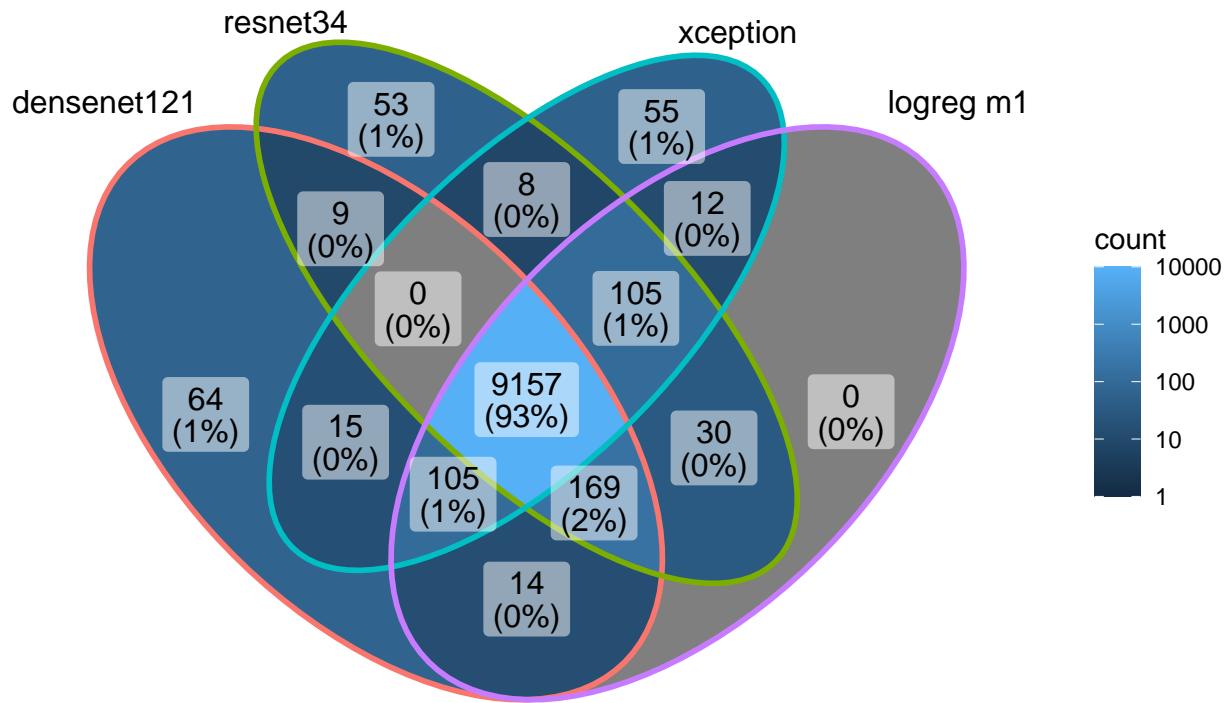


vt – replication 3



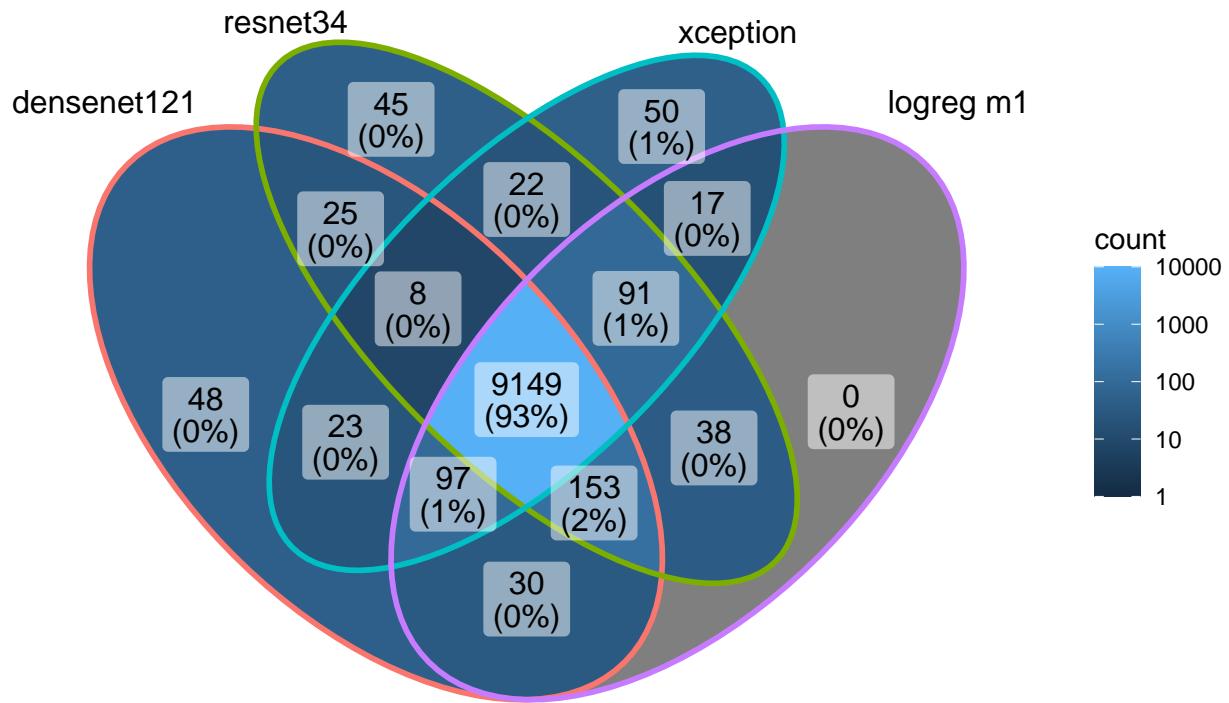
Warning: Transformation introduced infinite values in discrete y-axis

tt – replication 3



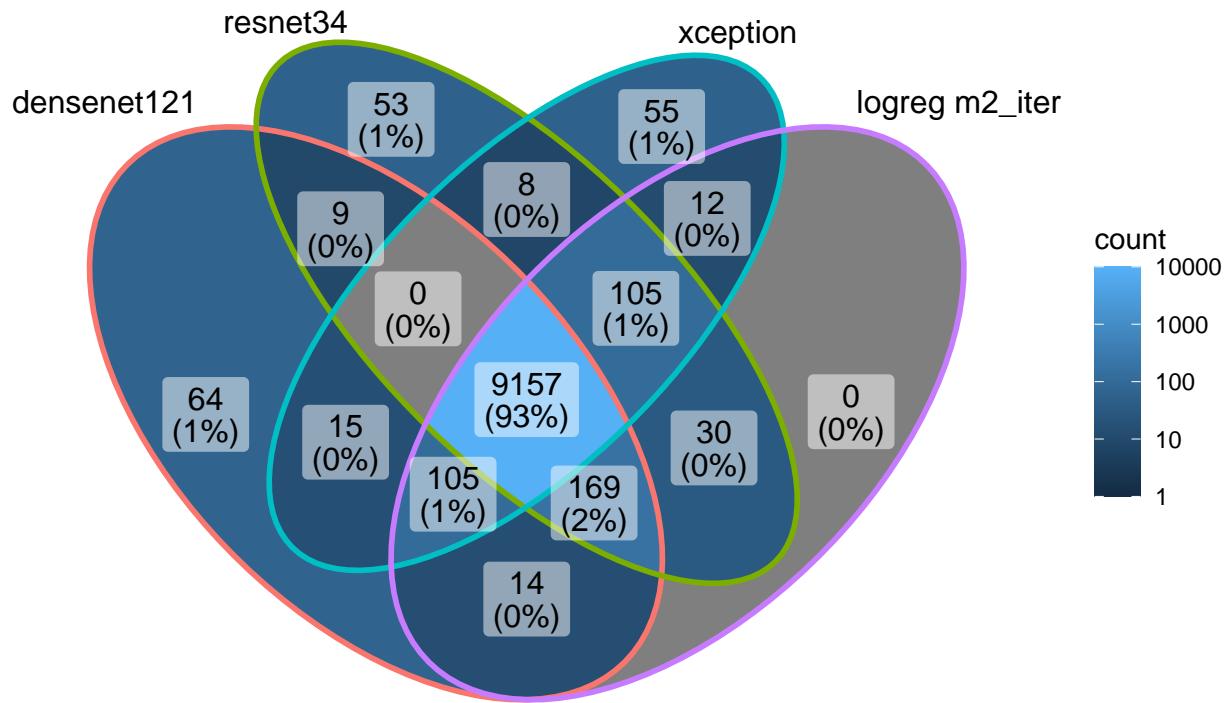
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vt – replication 3



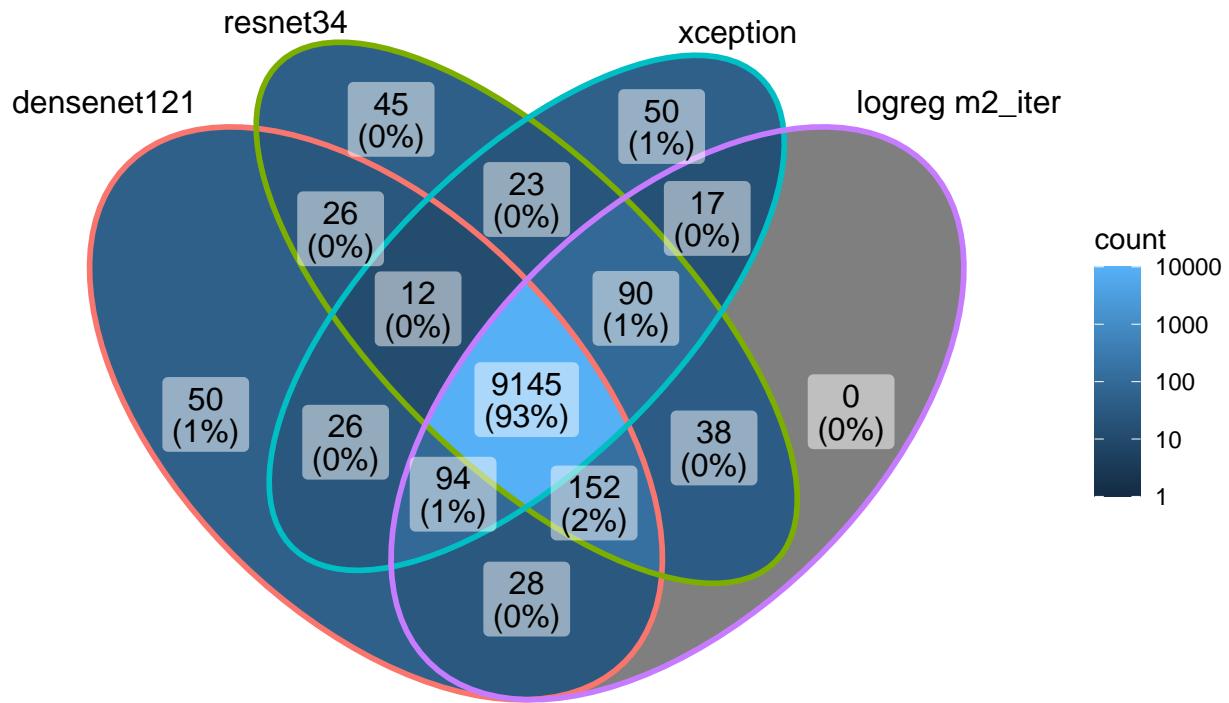
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tt – replication 3



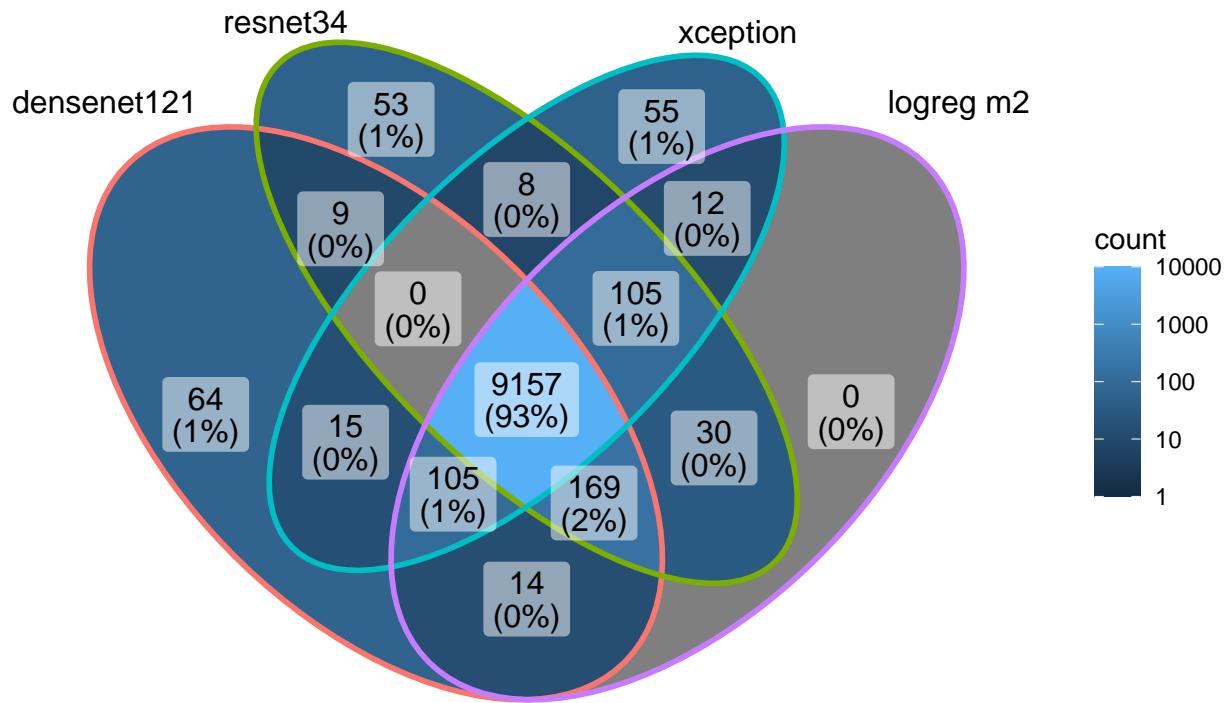
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vt – replication 3



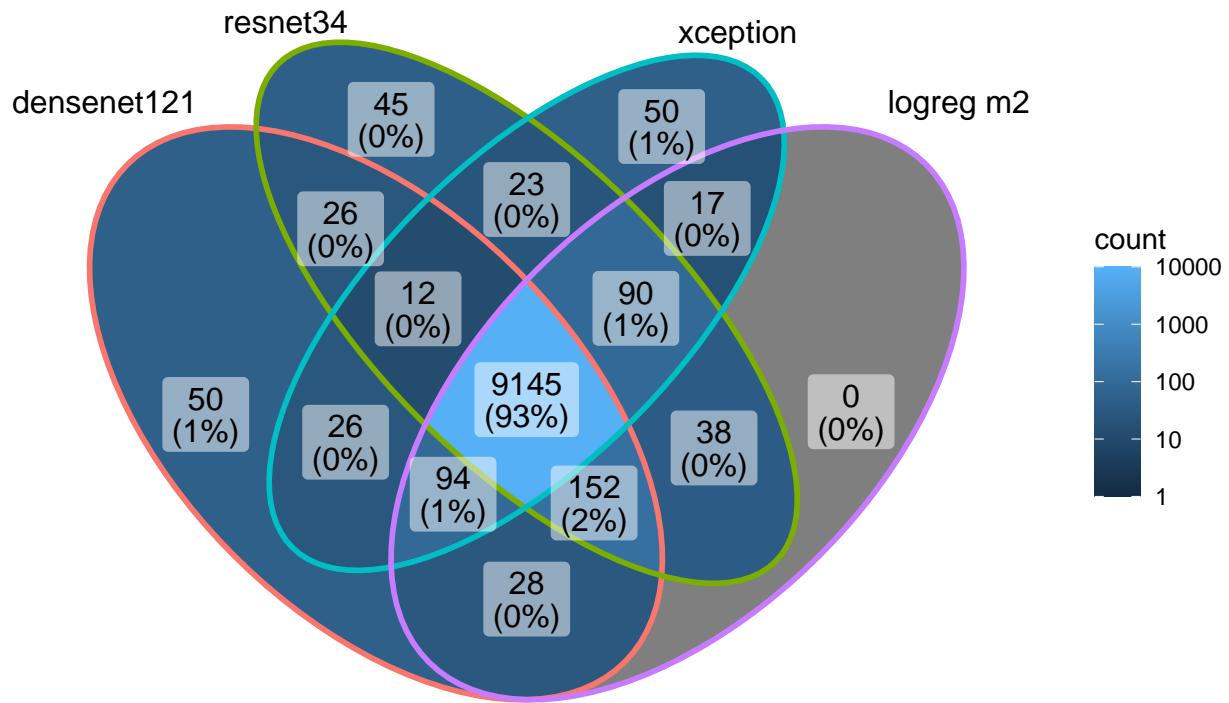
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tt – replication 3



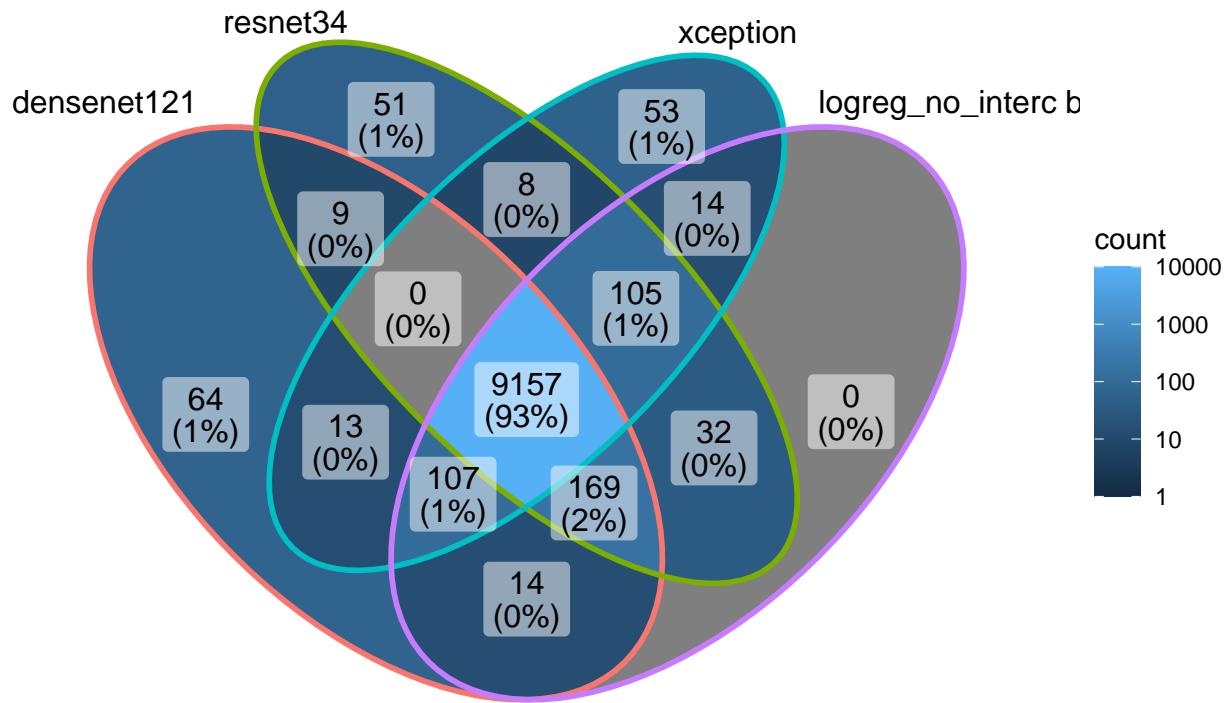
Warning: Transformation introduced infinite values in discrete y-axis

vt – replication 3



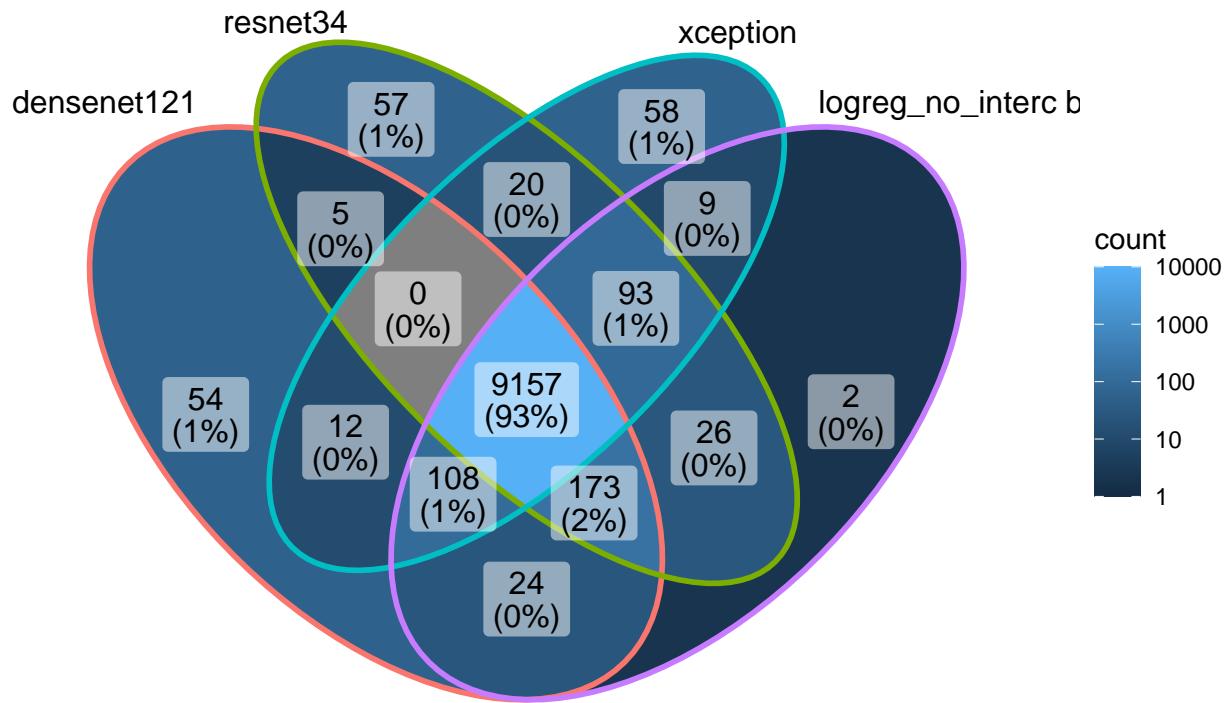
Warning: Transformation introduced infinite values in discrete y-axis

tt – replication 3



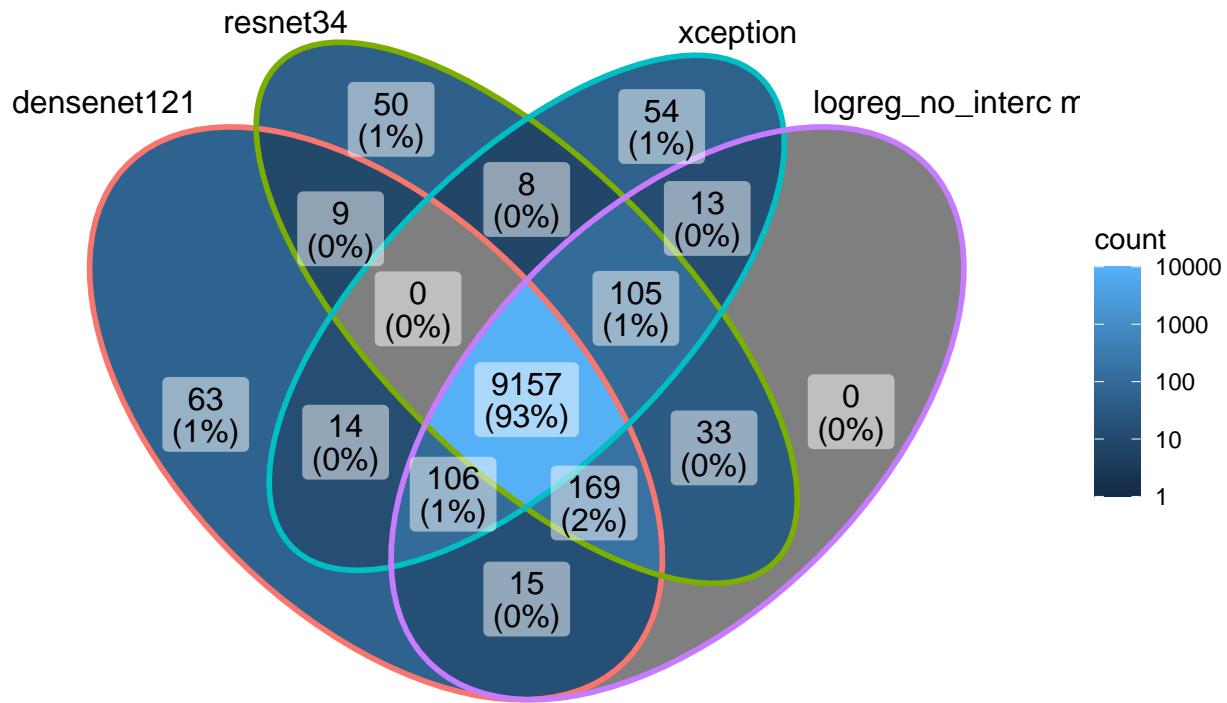
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vt – replication 3

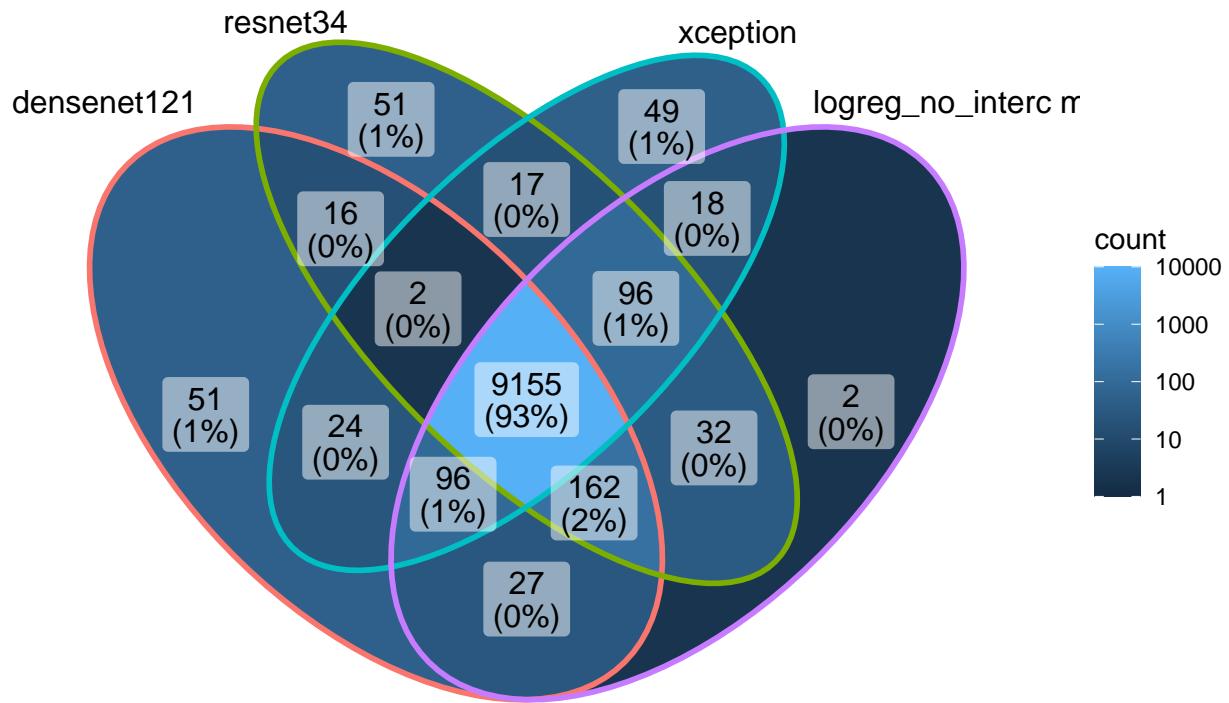


Warning: Transformation introduced infinite values in discrete y-axis

tt – replication 3

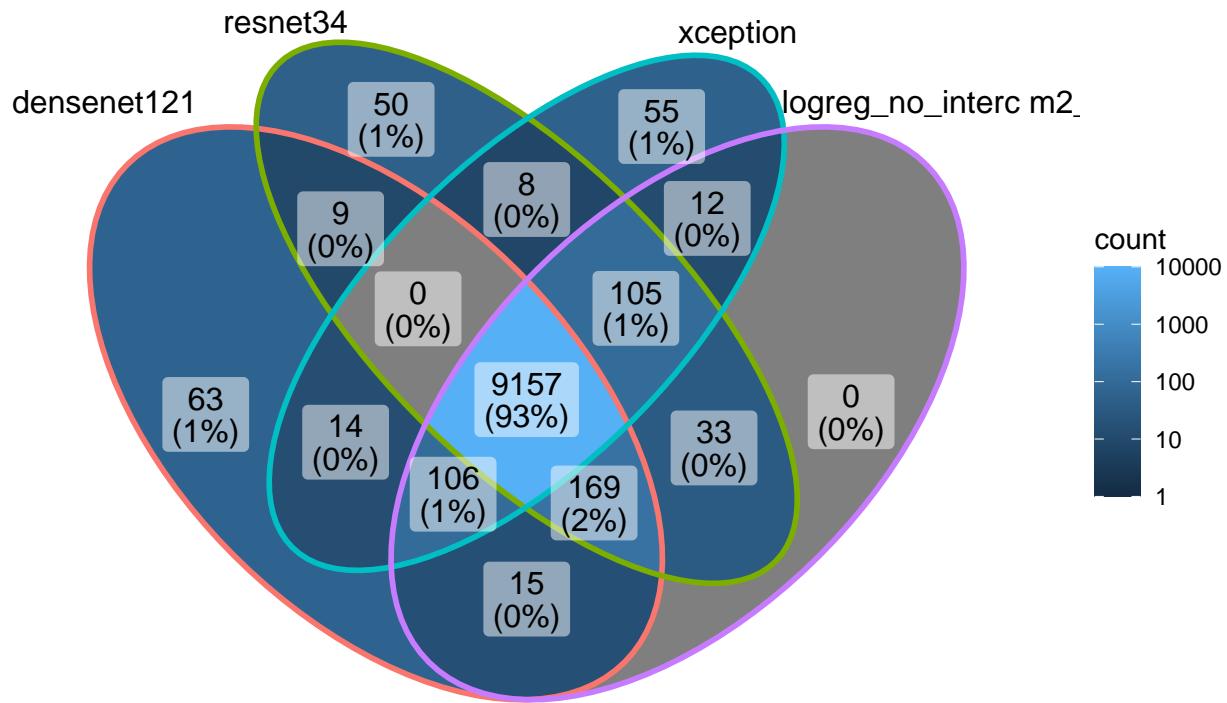


vt – replication 3

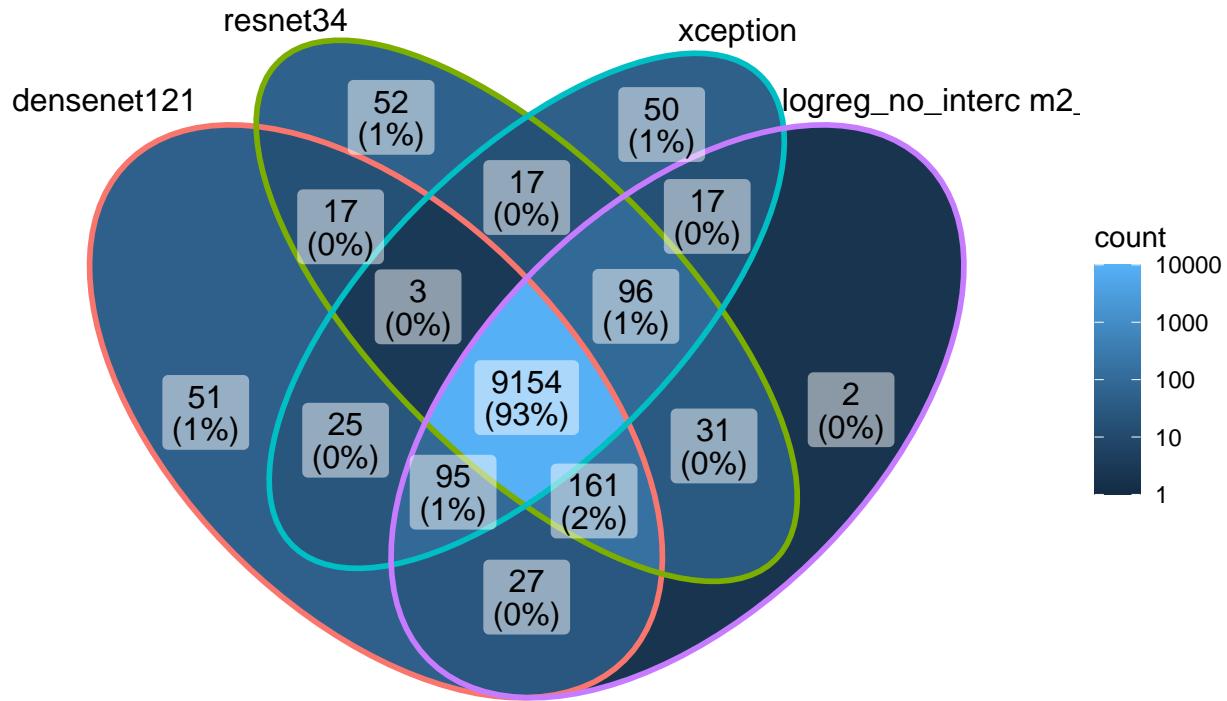


Warning: Transformation introduced infinite values in discrete y-axis

tt – replication 3

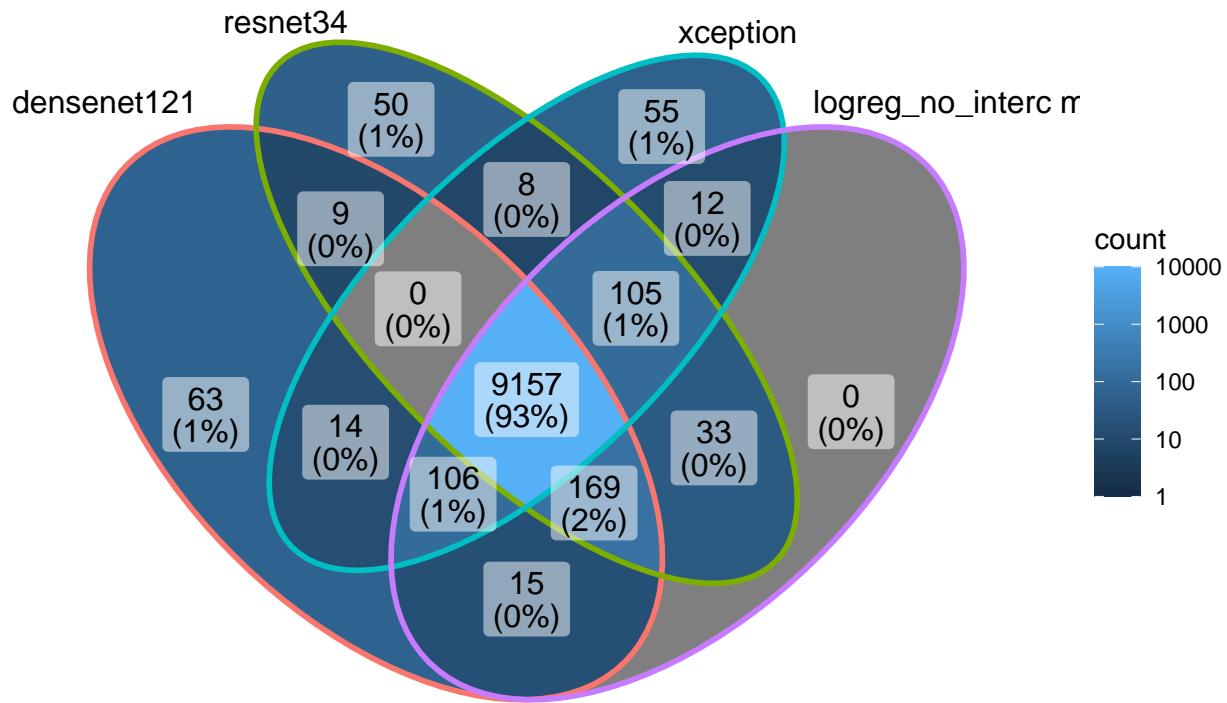


vt – replication 3

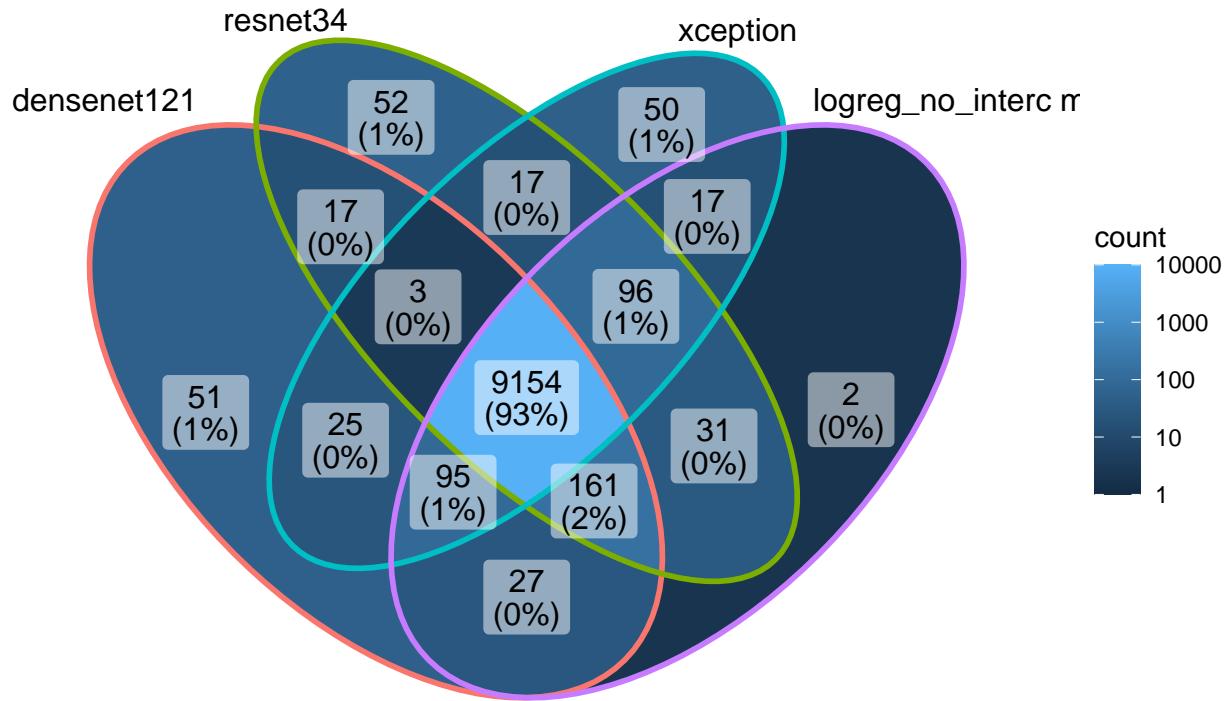


Warning: Transformation introduced infinite values in discrete y-axis

tt – replication 3

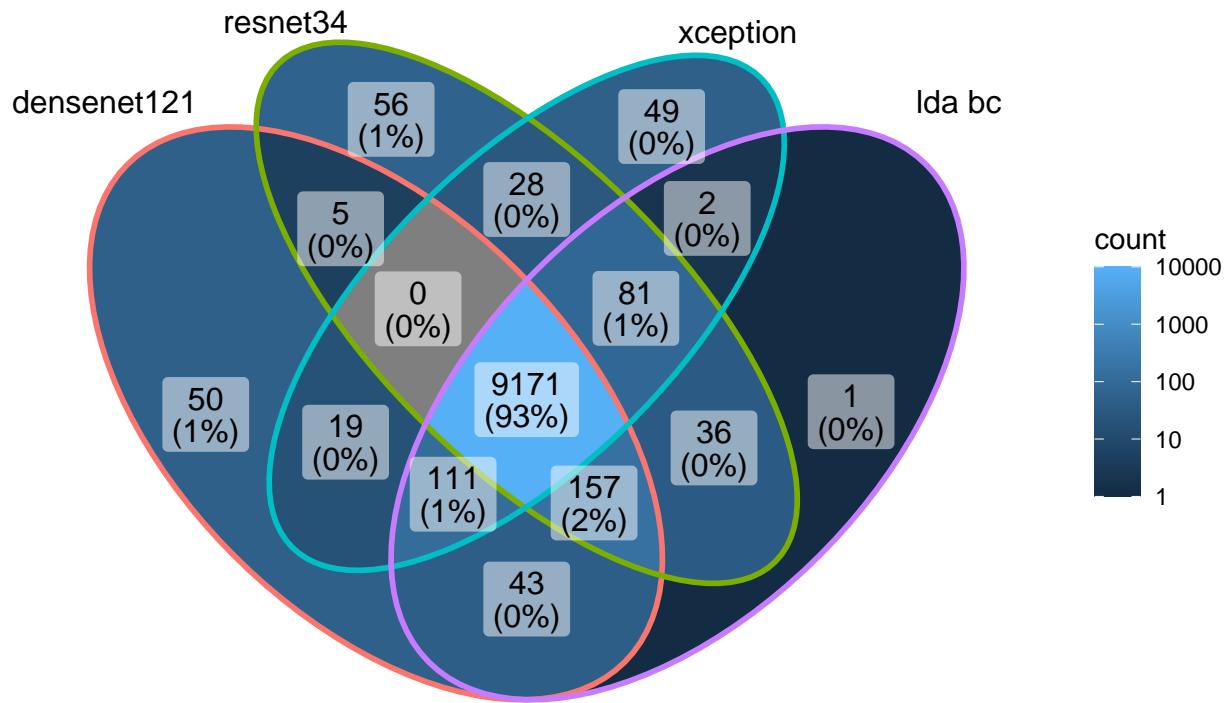


vt – replication 3

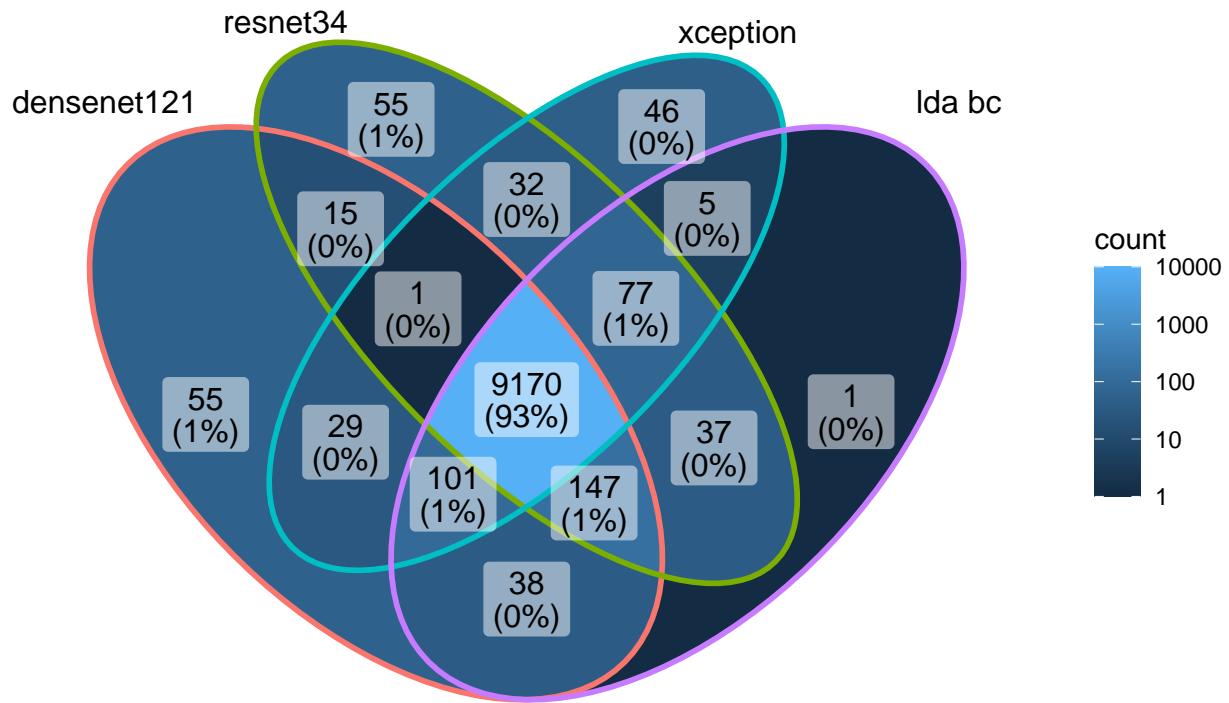


Warning: Transformation introduced infinite values in discrete y-axis

tt – replication 4

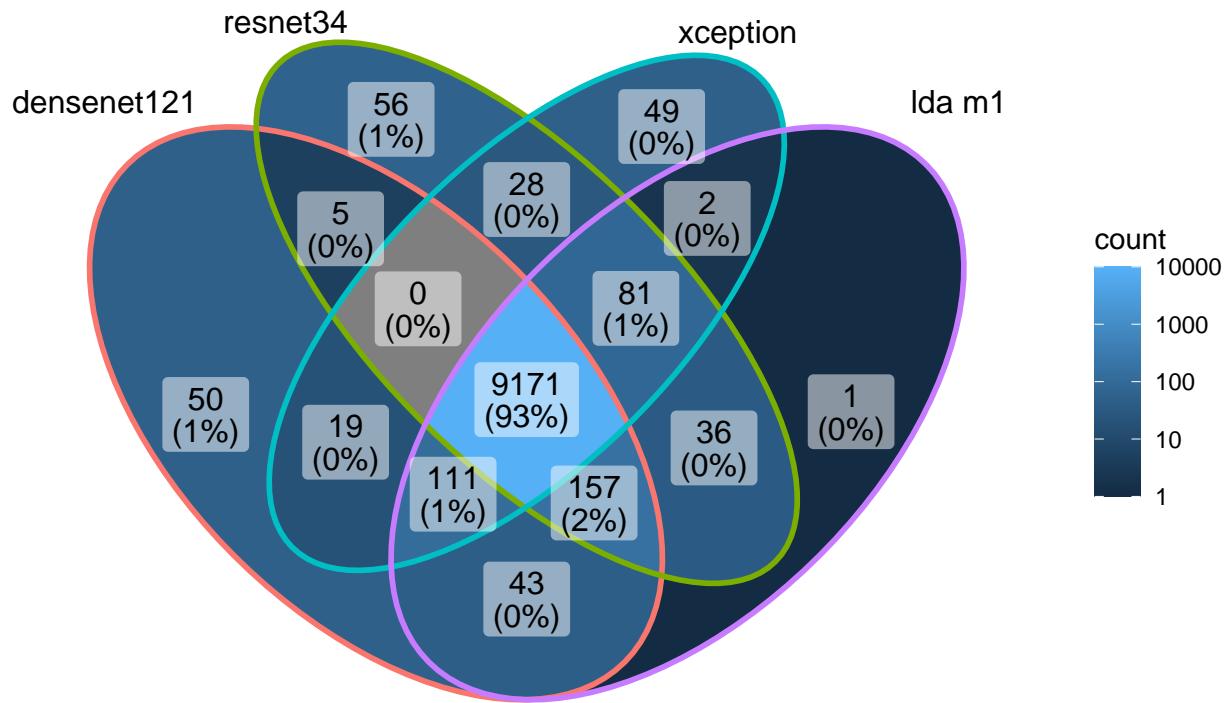


vt – replication 4



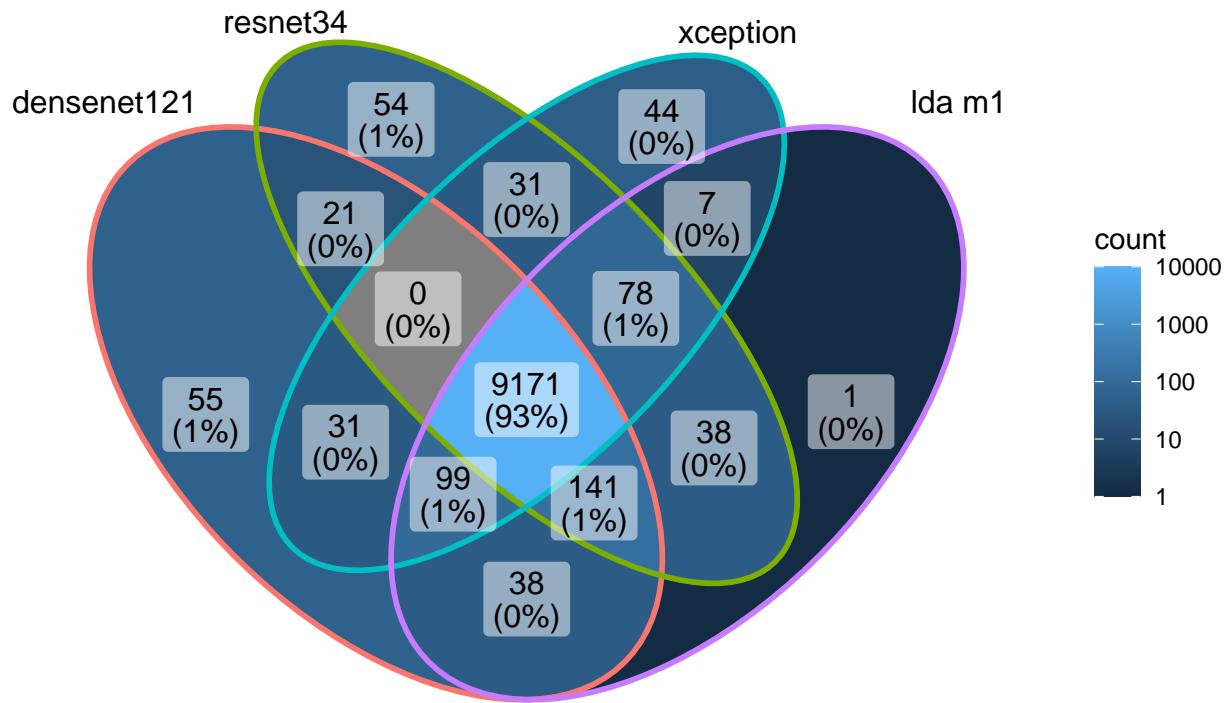
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tt – replication 4



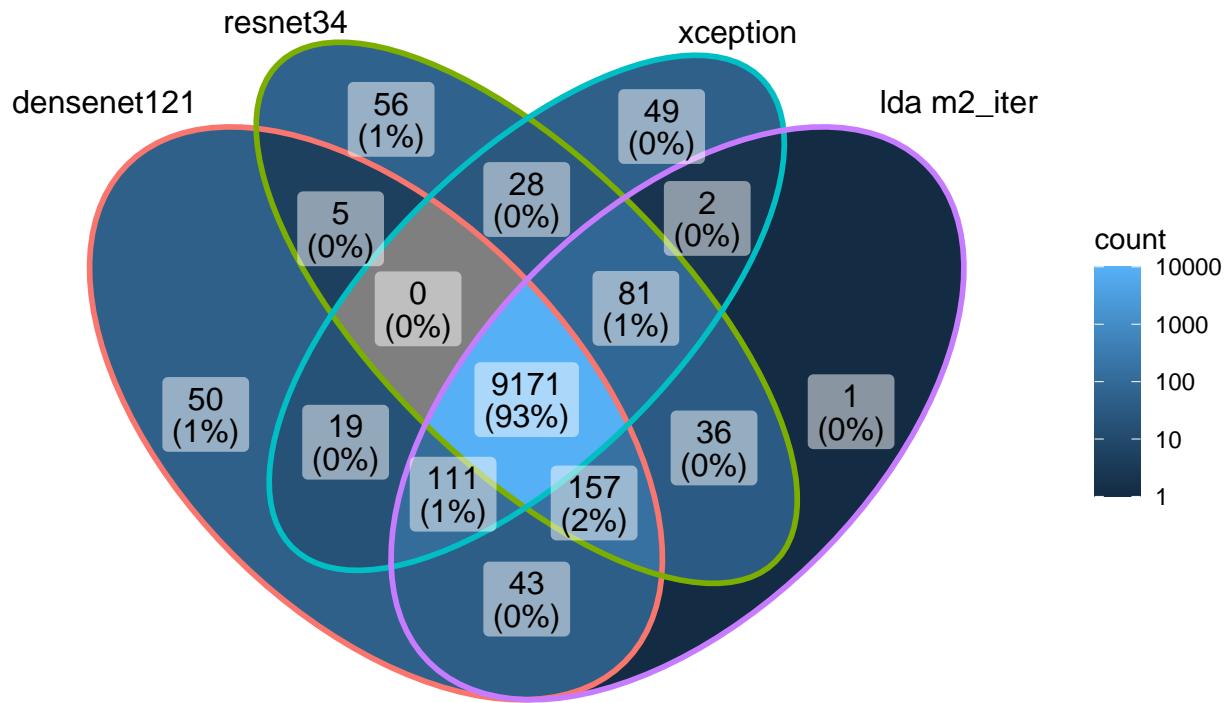
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vt – replication 4



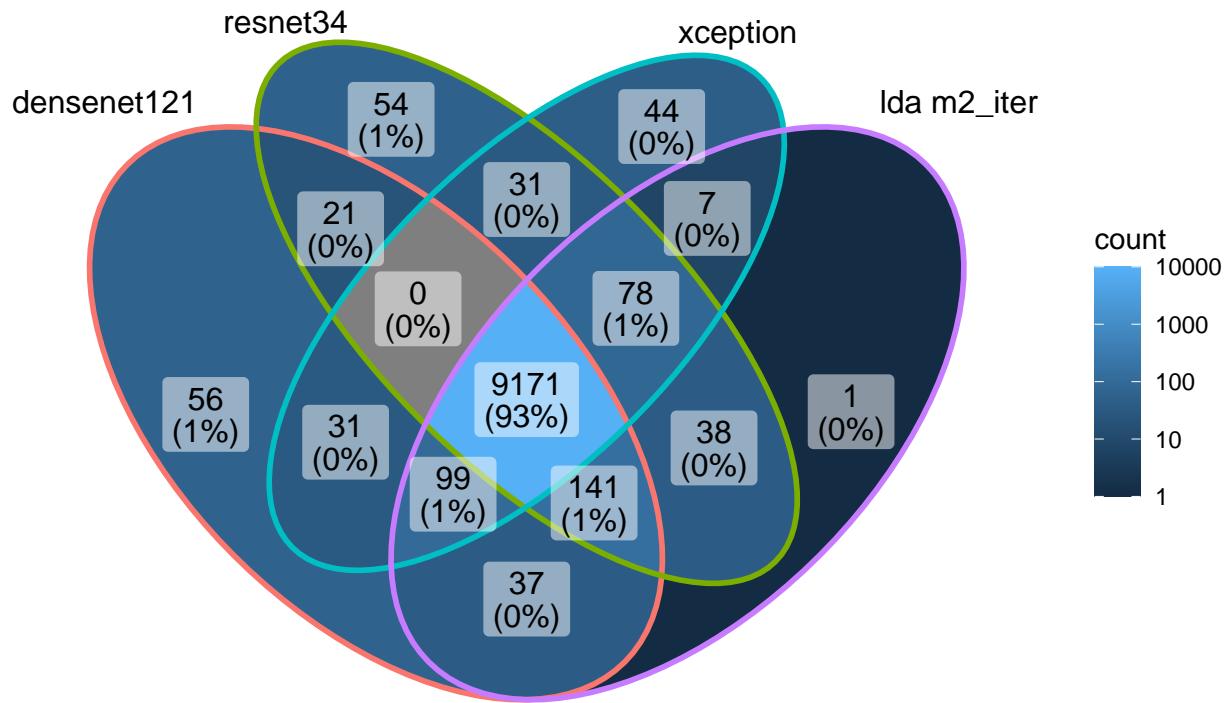
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tt – replication 4



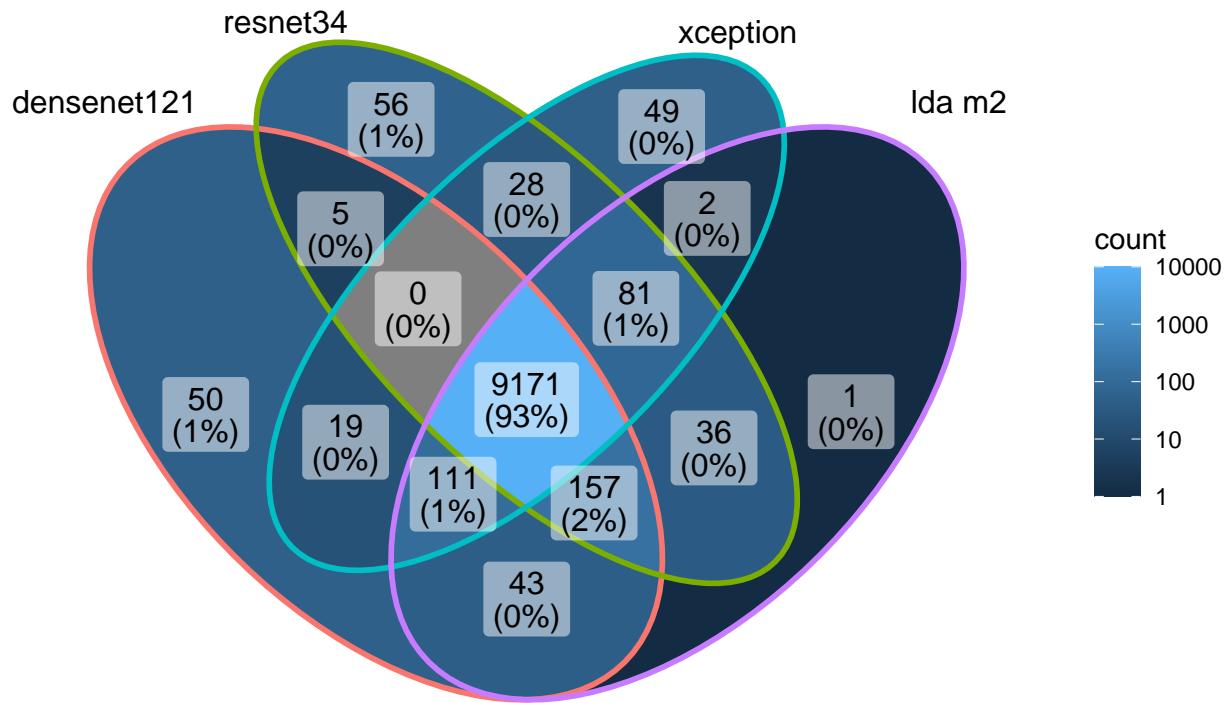
Warning: Transformation introduced infinite values in discrete y-axis

vt – replication 4



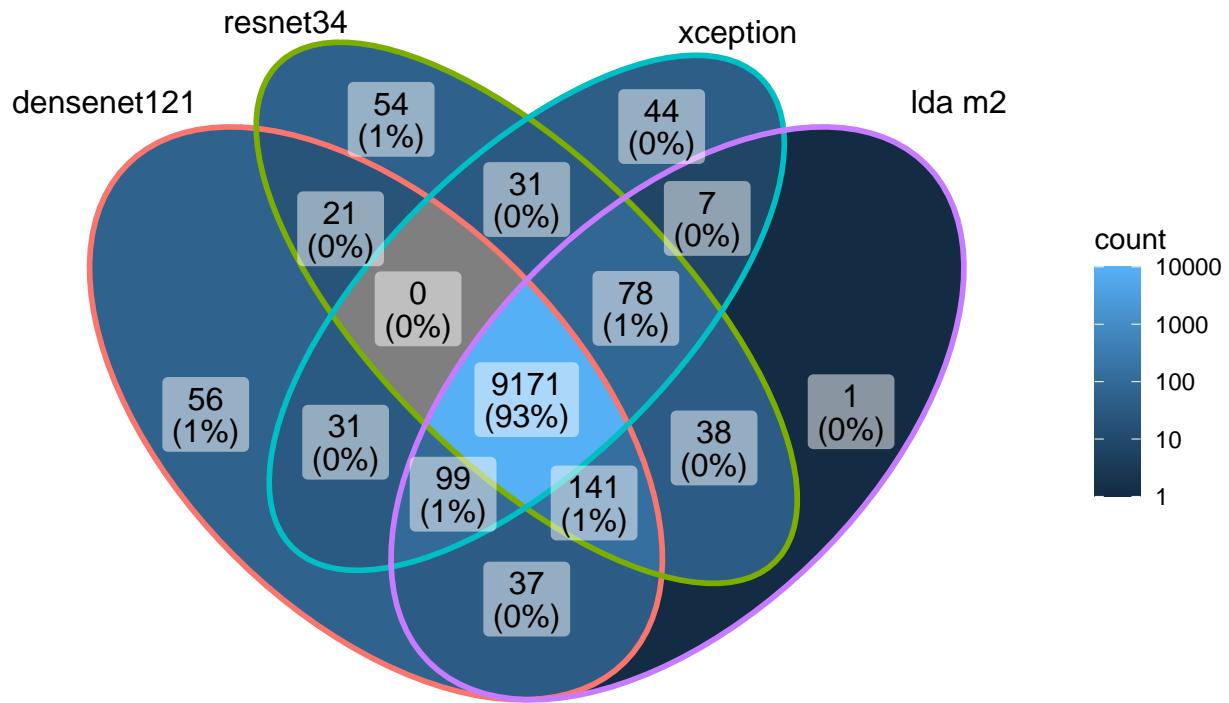
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tt – replication 4



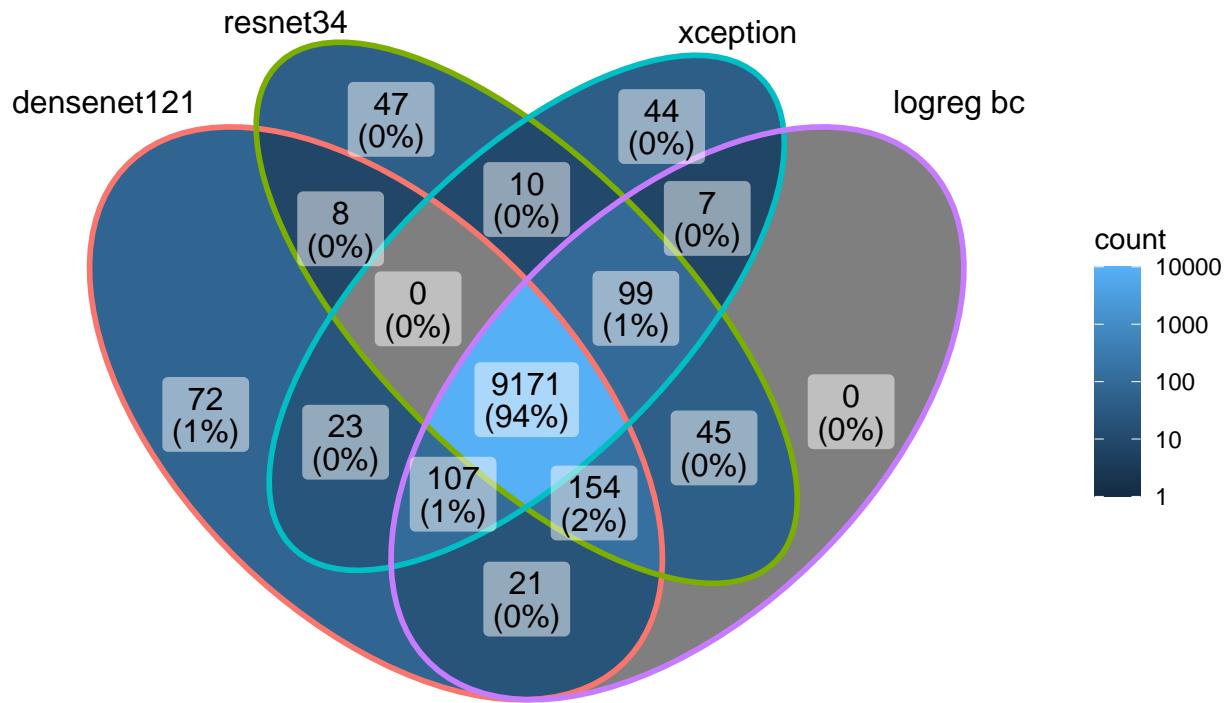
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vt – replication 4

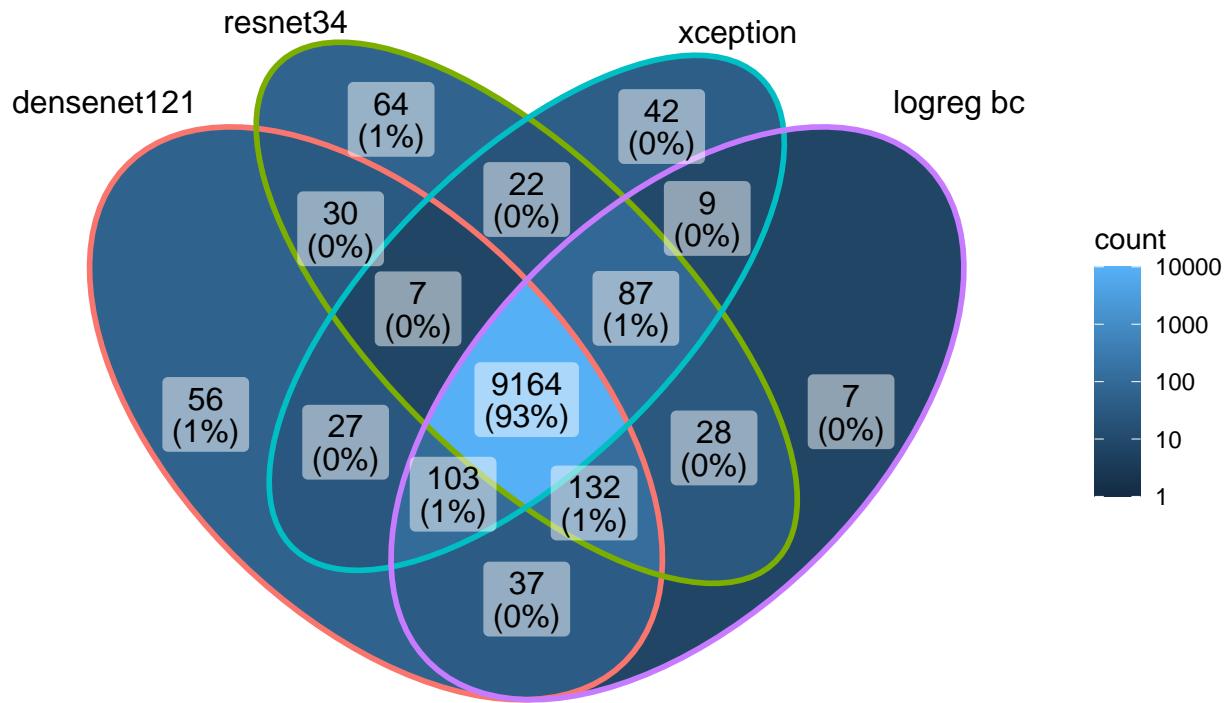


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tt – replication 4

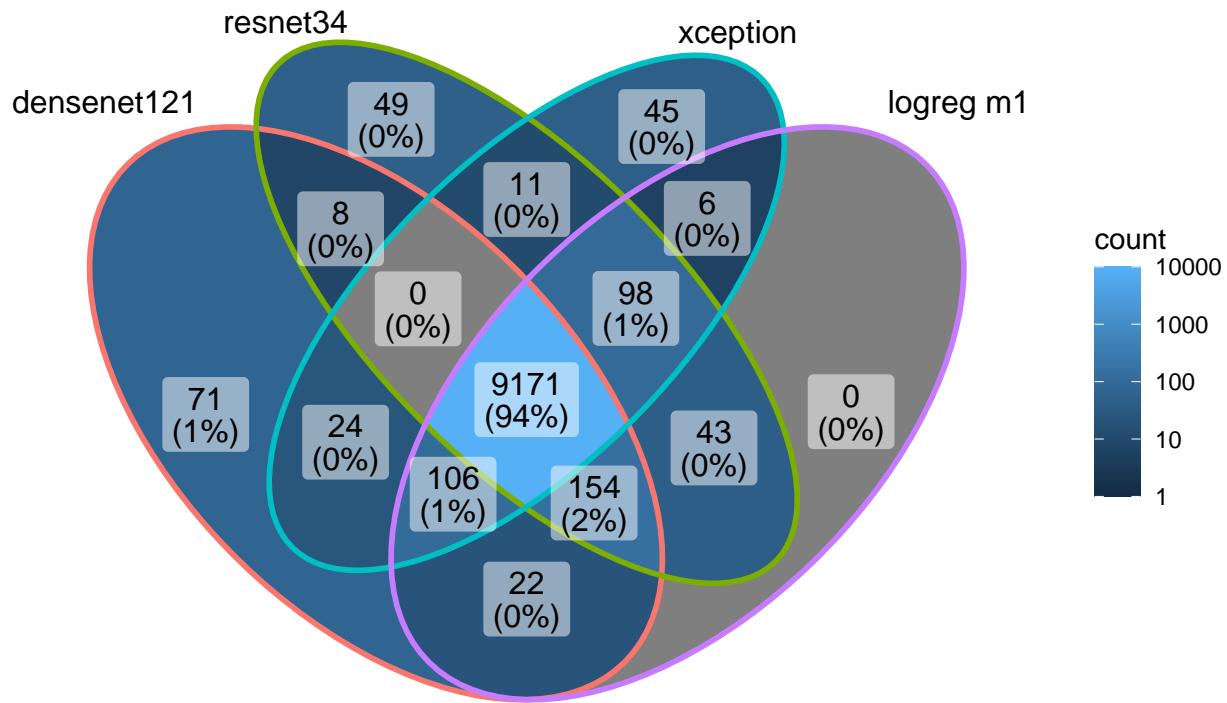


vt – replication 4

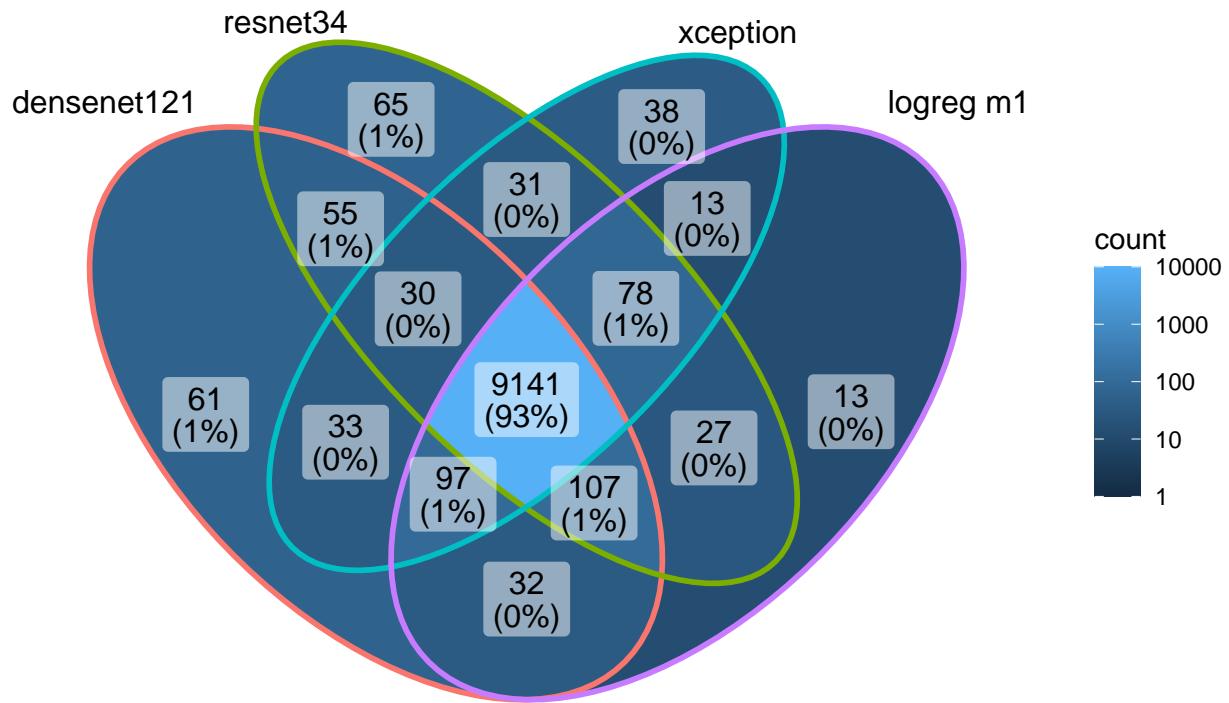


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tt – replication 4

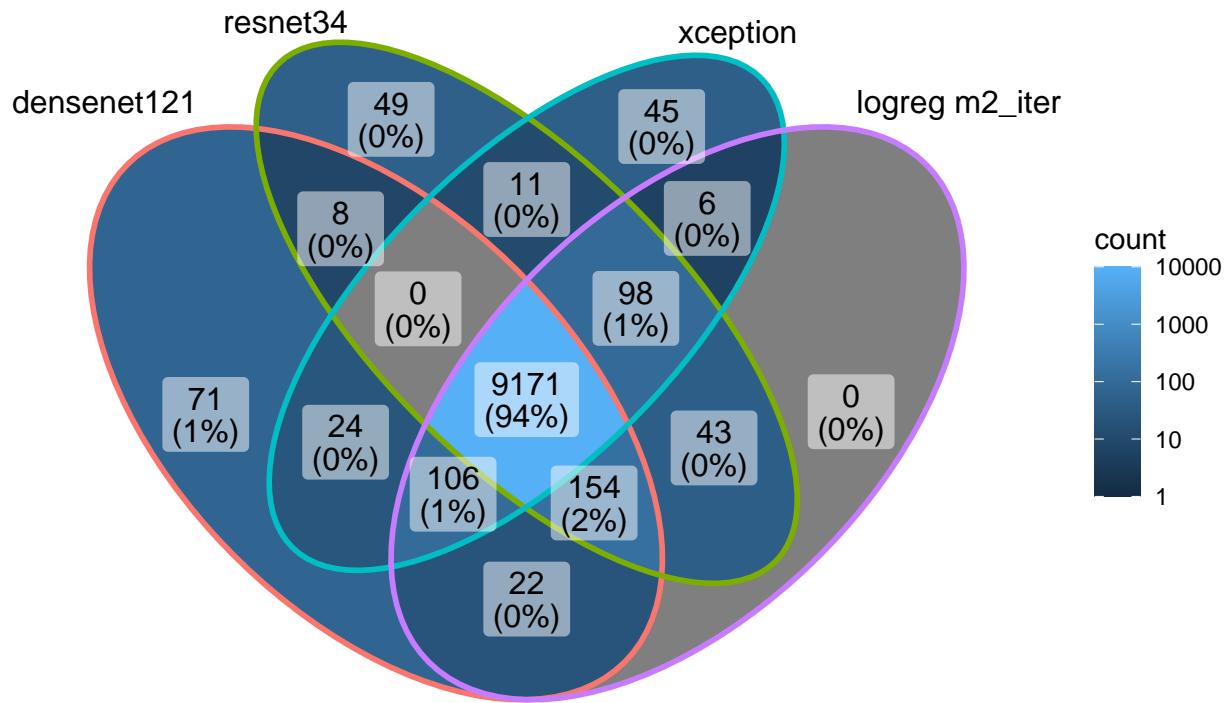


vt – replication 4

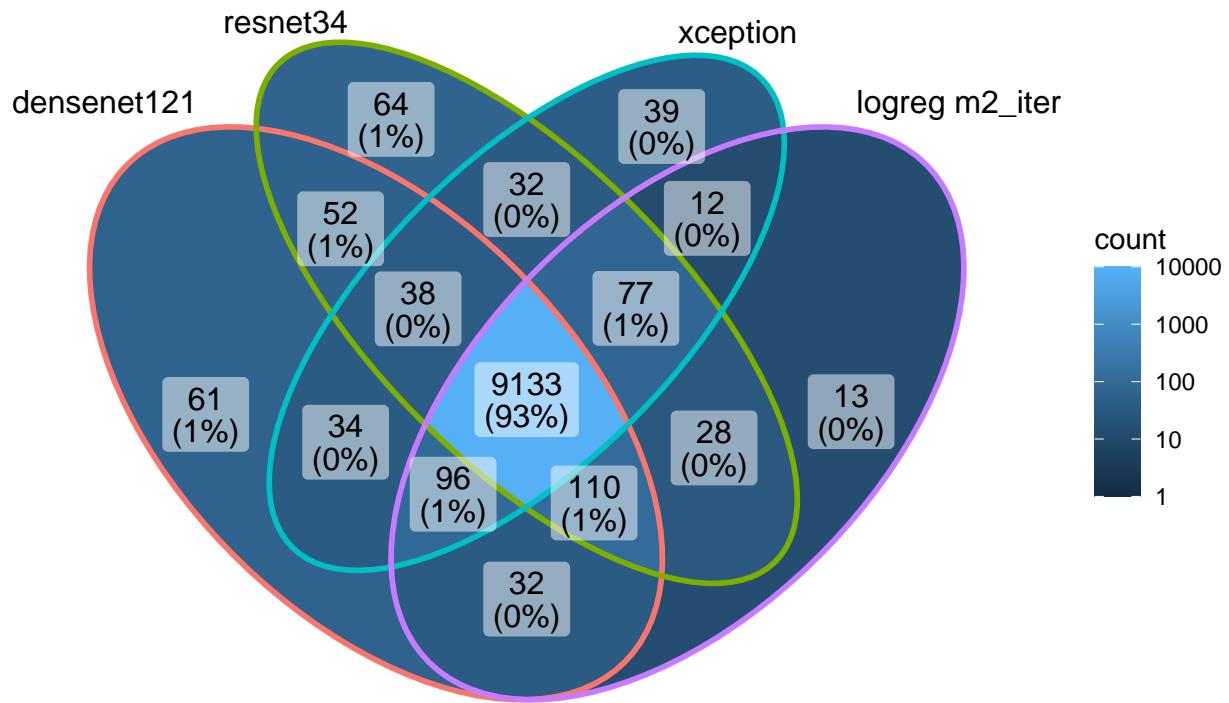


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tt – replication 4

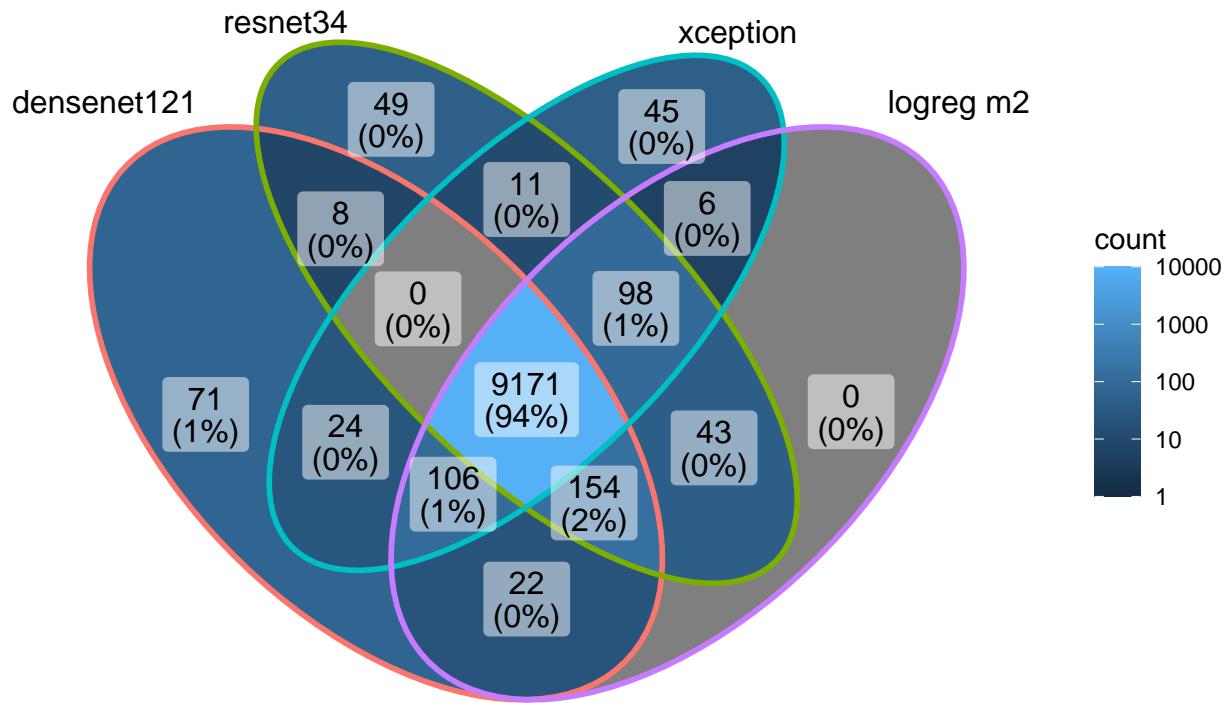


vt – replication 4

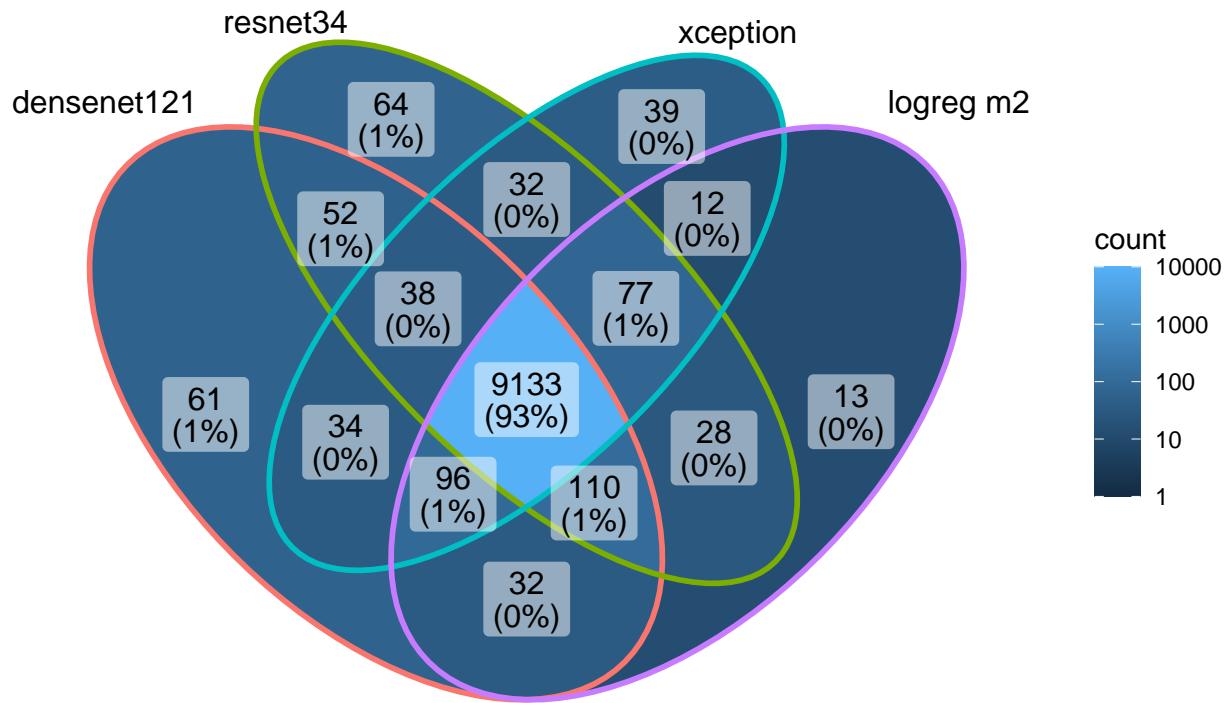


Warning: Transformation introduced infinite values in discrete y-axis

tt – replication 4

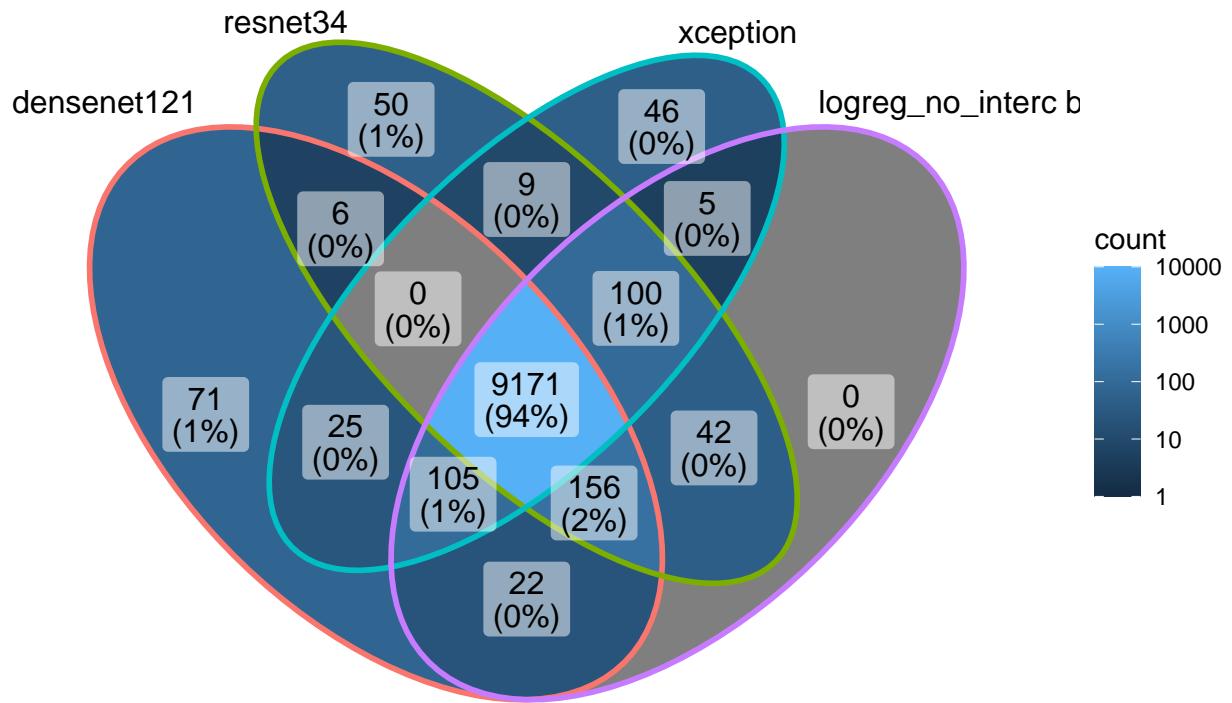


vt – replication 4

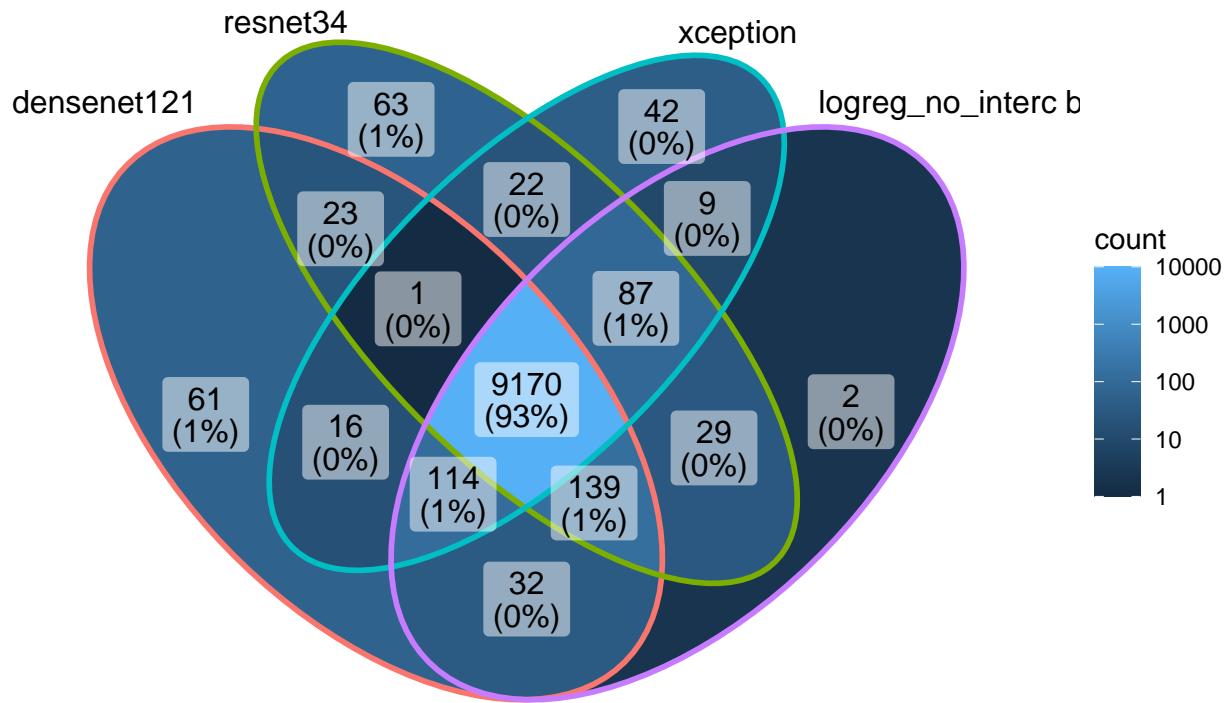


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tt – replication 4

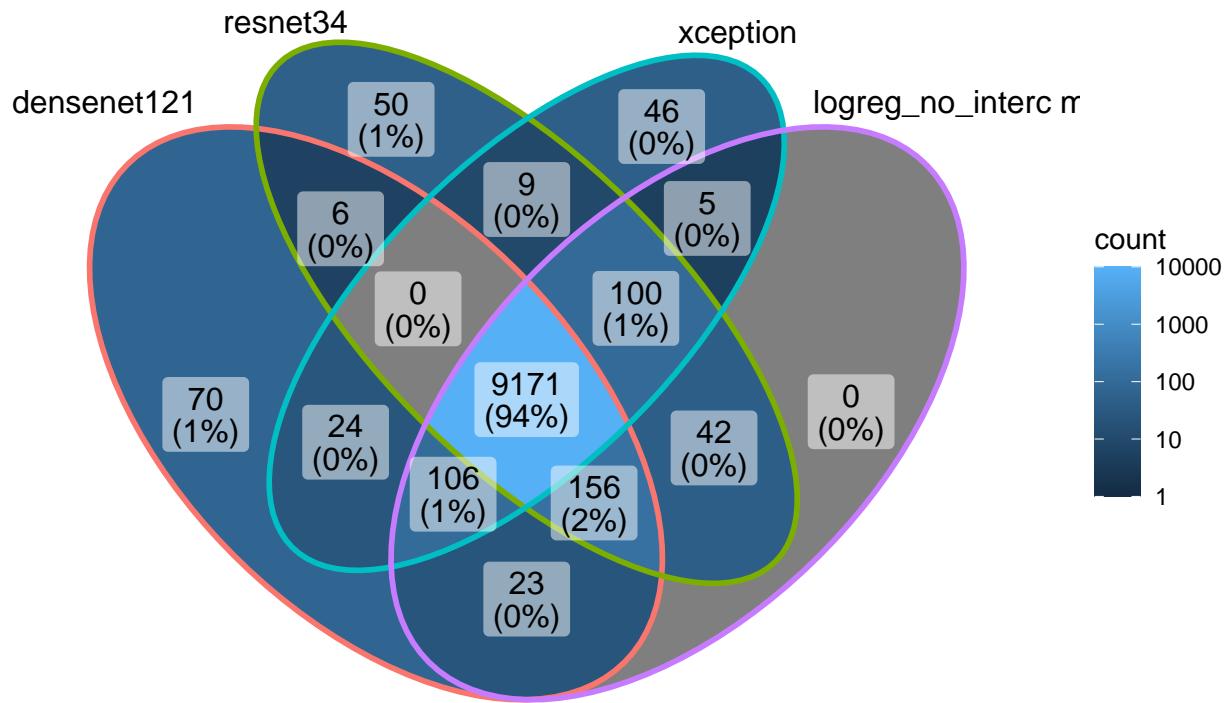


vt – replication 4

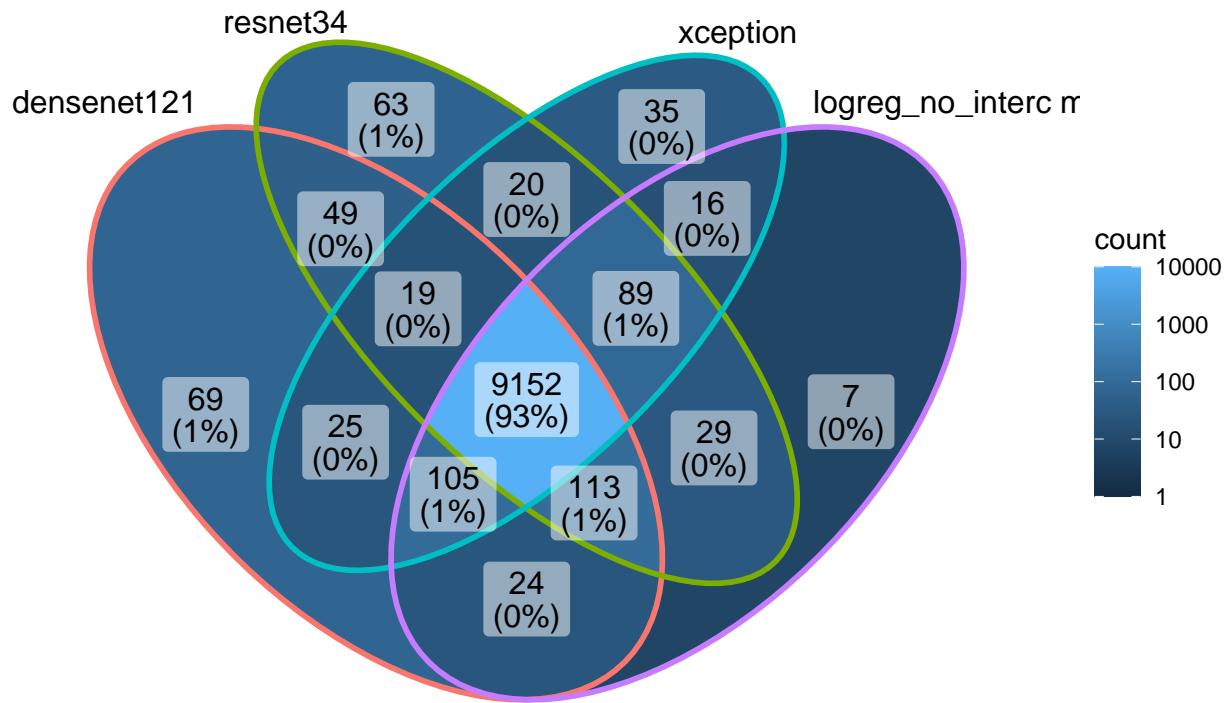


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tt – replication 4

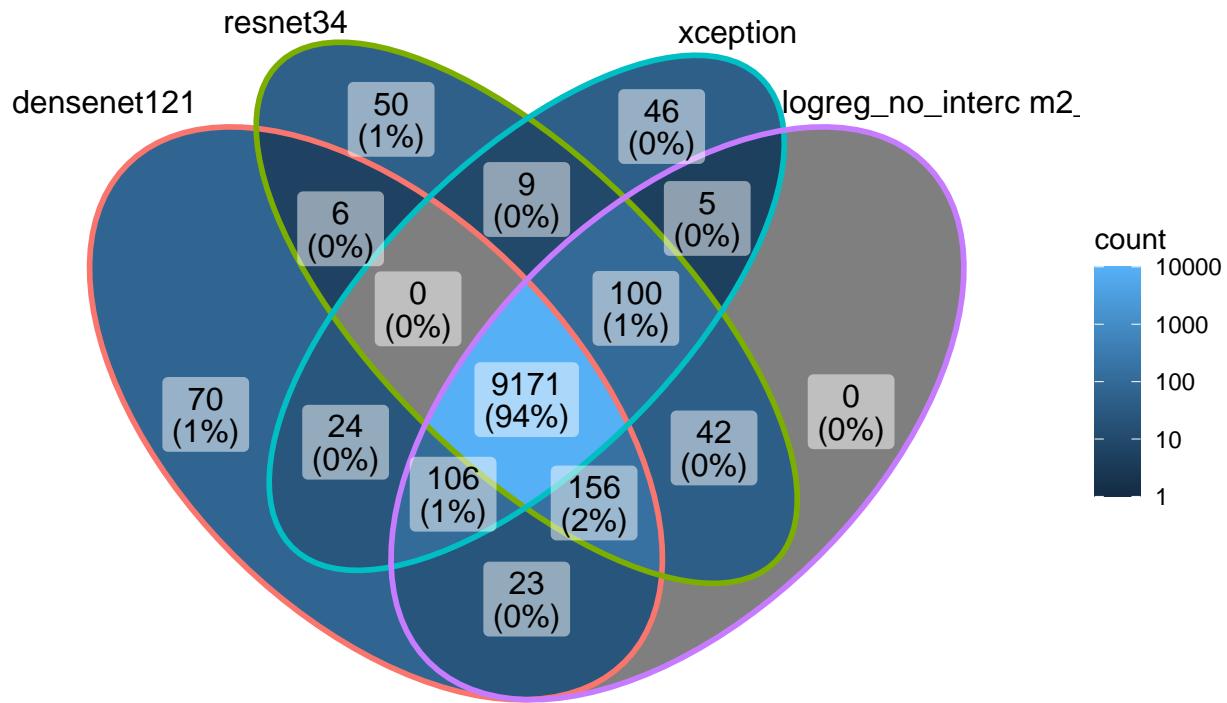


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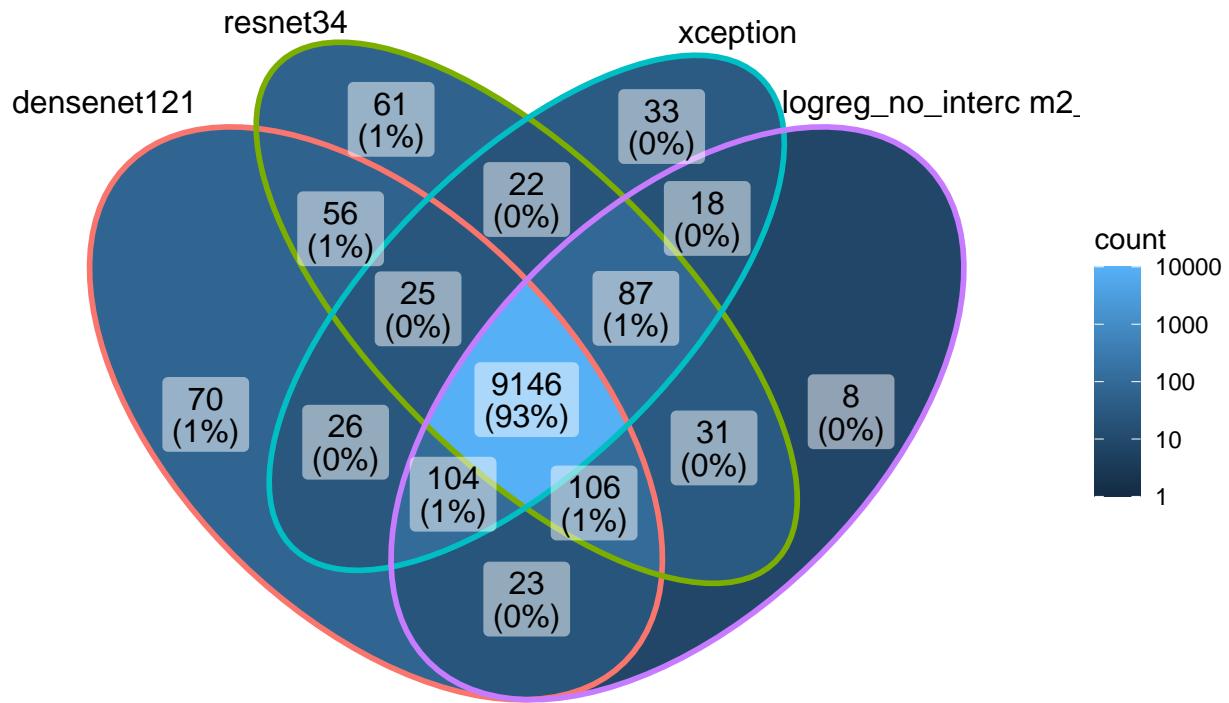


Warning: Transformation introduced infinite values in discrete y-axis

tt – replication 4

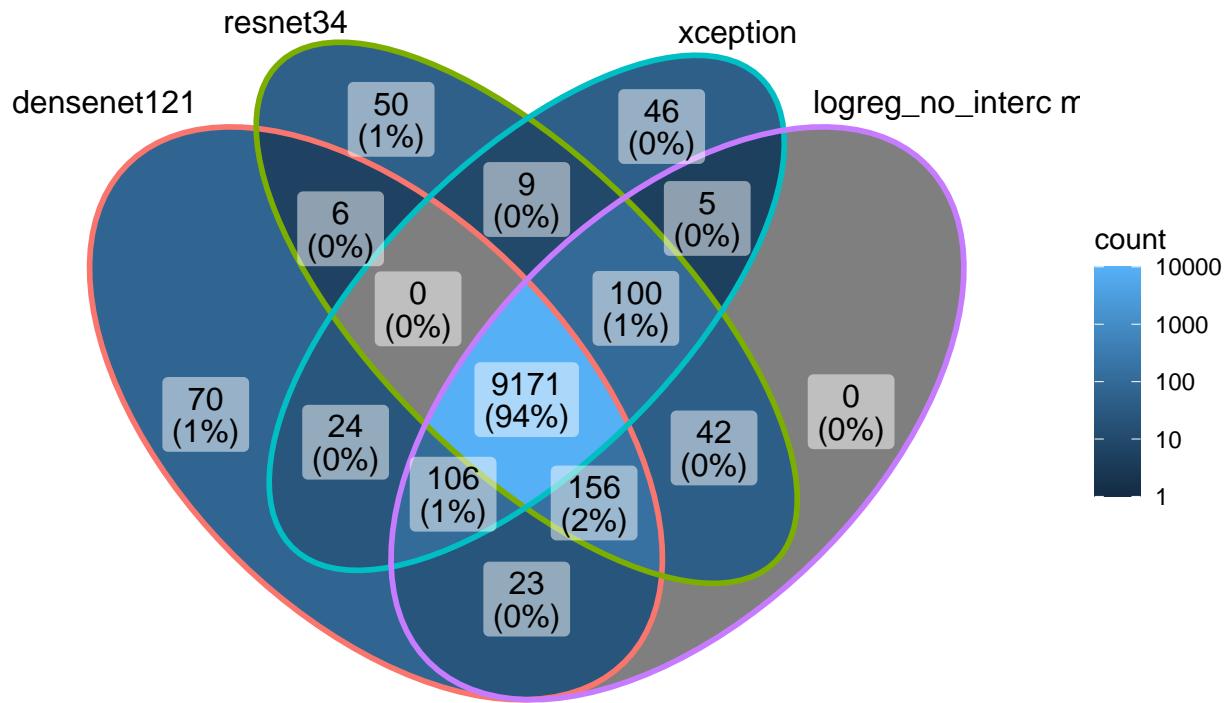


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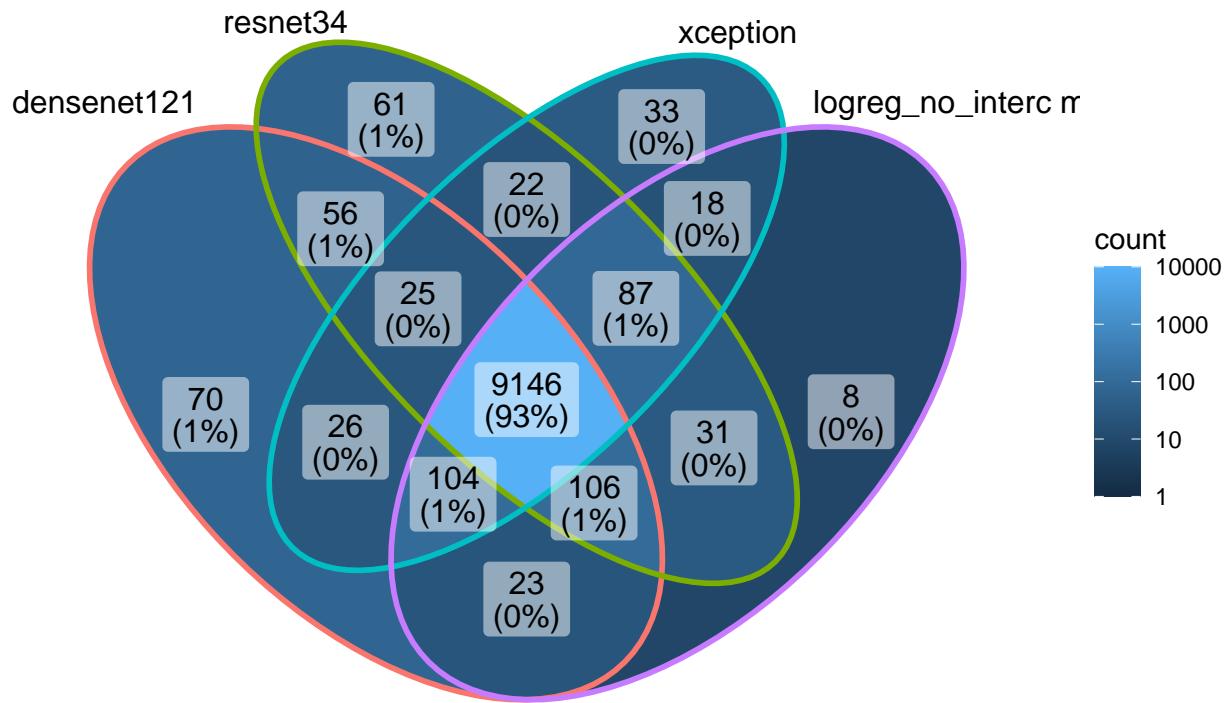


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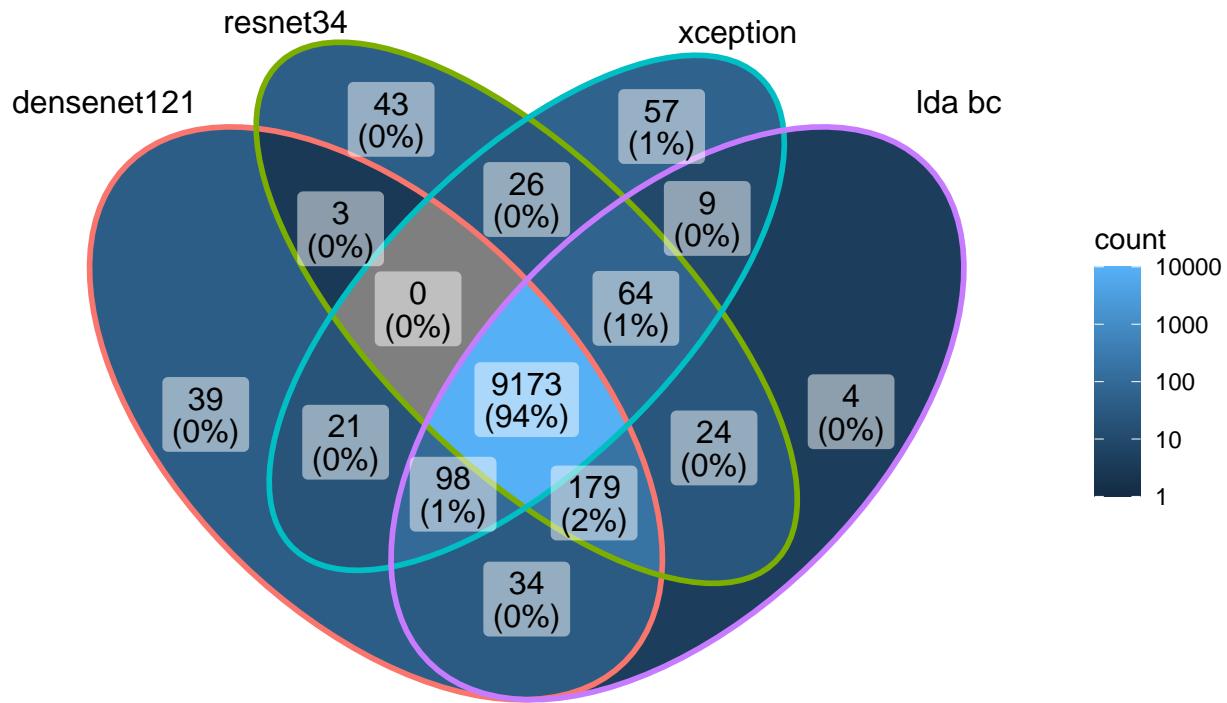


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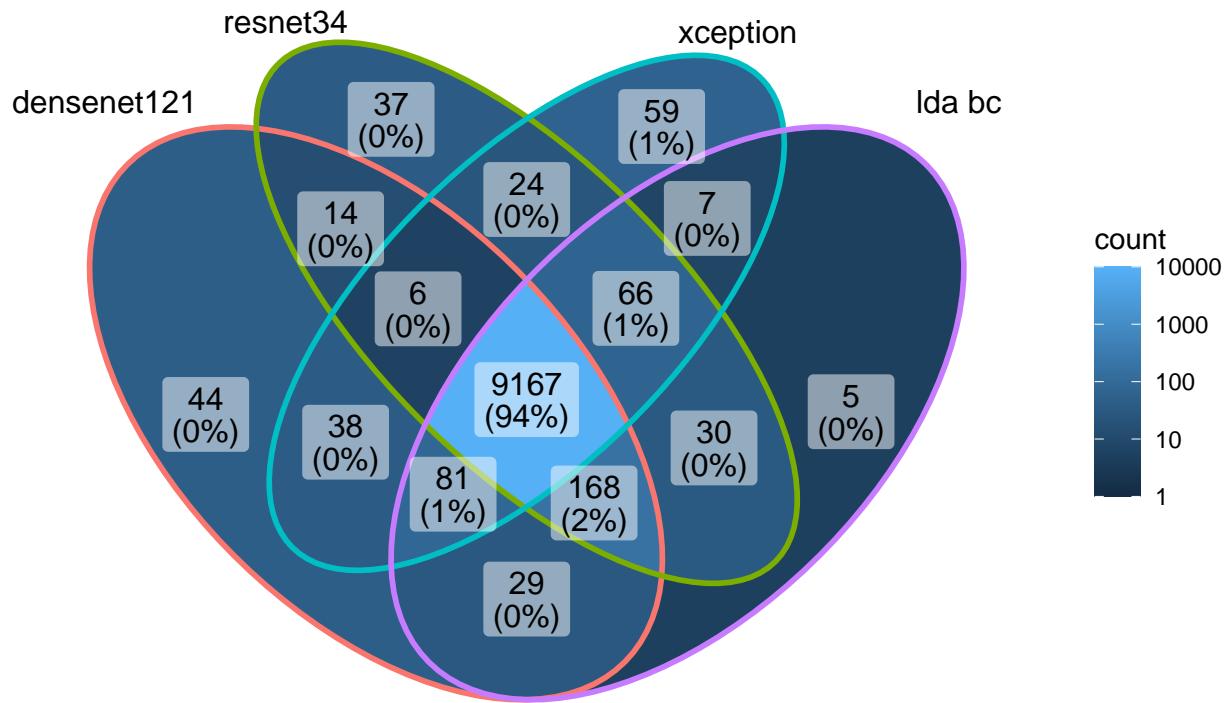


Warning: Transformation introduced infinite values in discrete y-axis

tt – replication 5

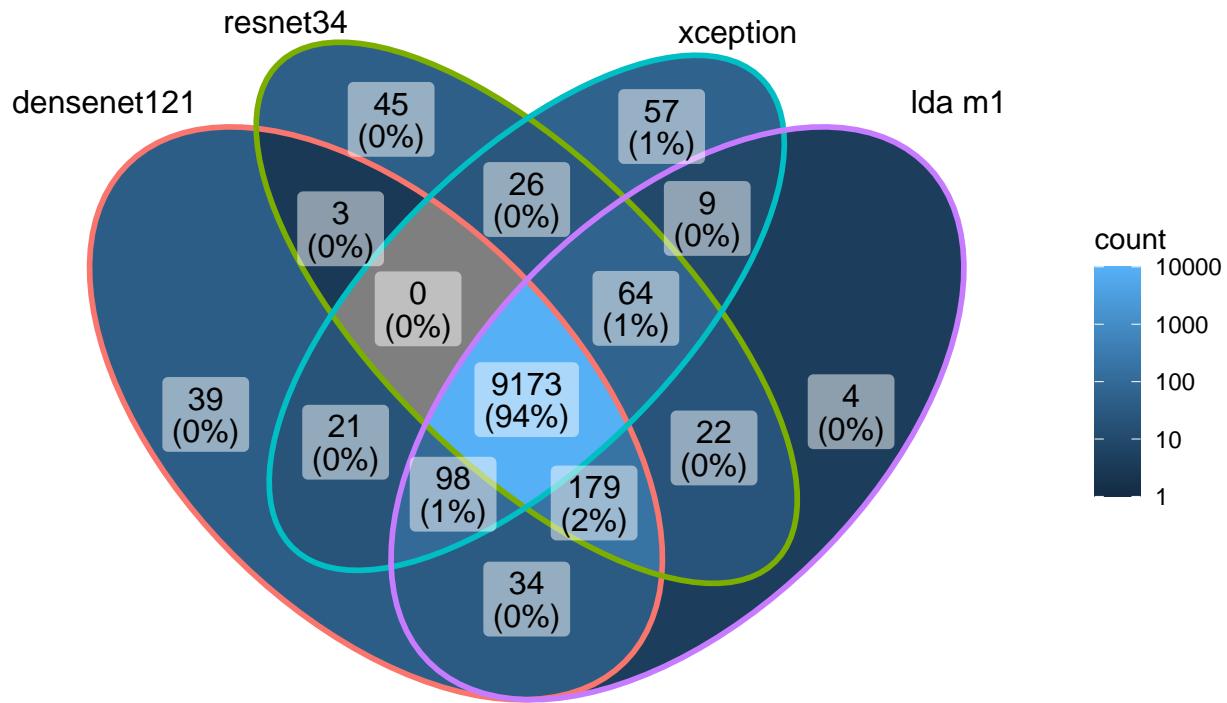


vt – replication 5

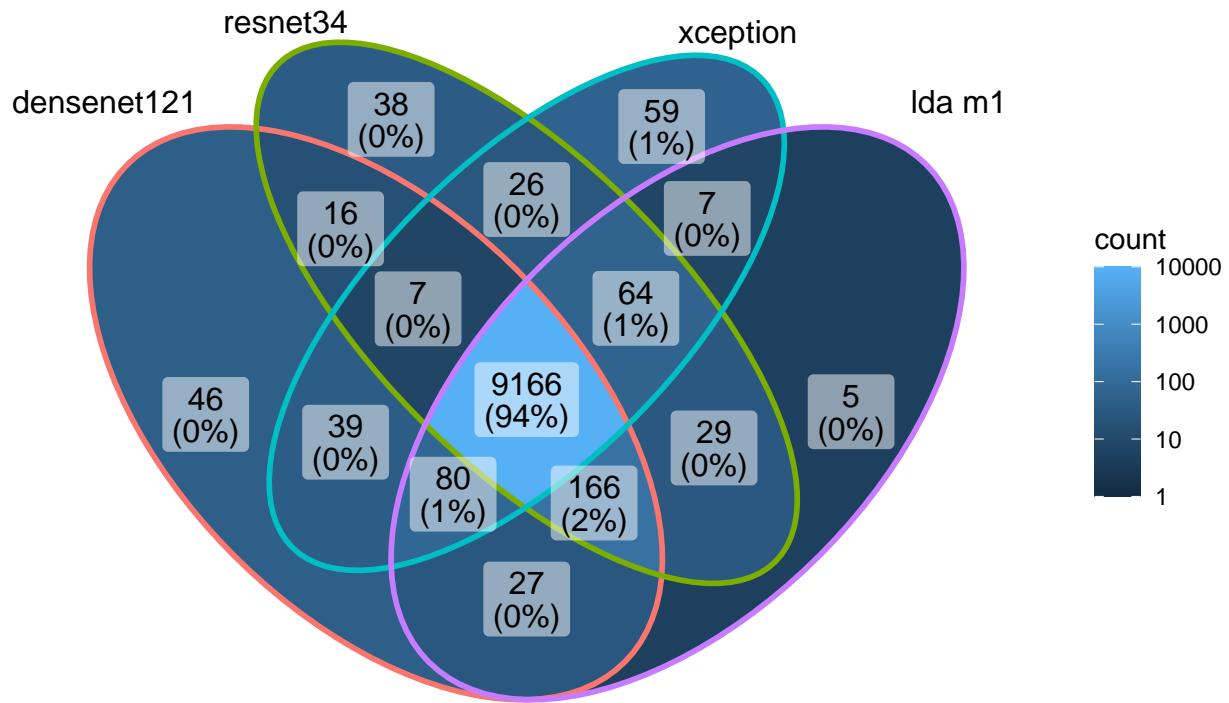


Warning: Transformation introduced infinite values in discrete y-axis

tt – replication 5

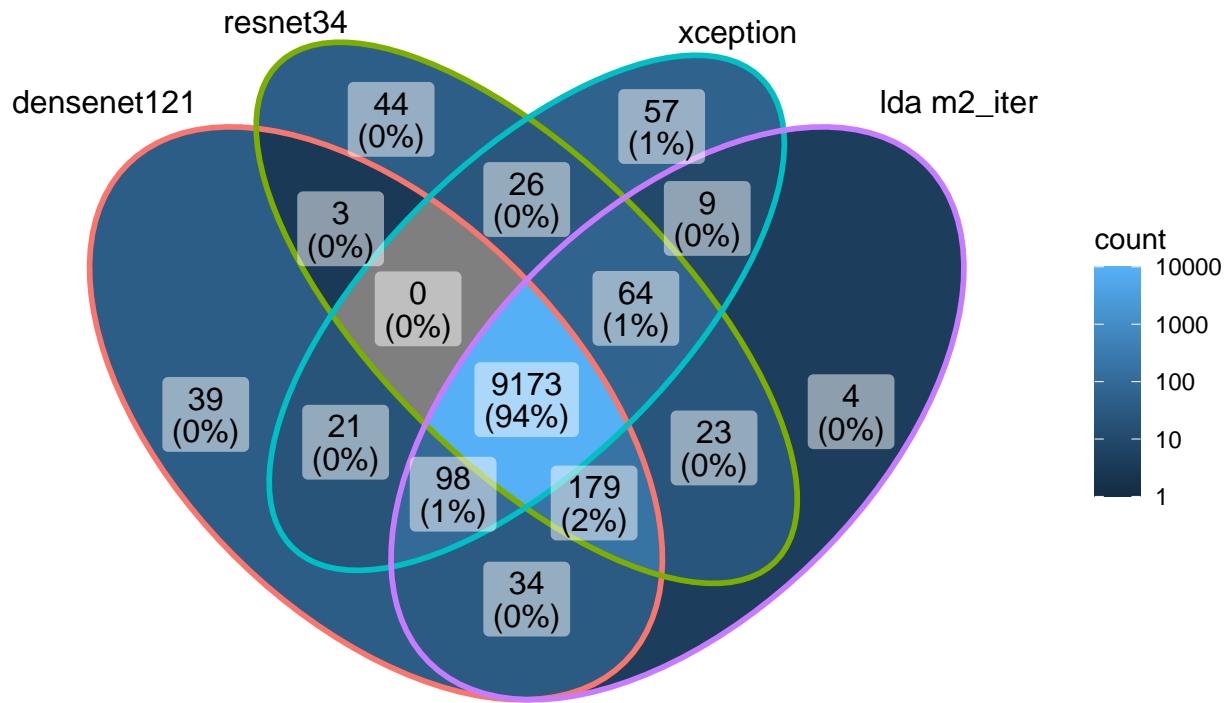


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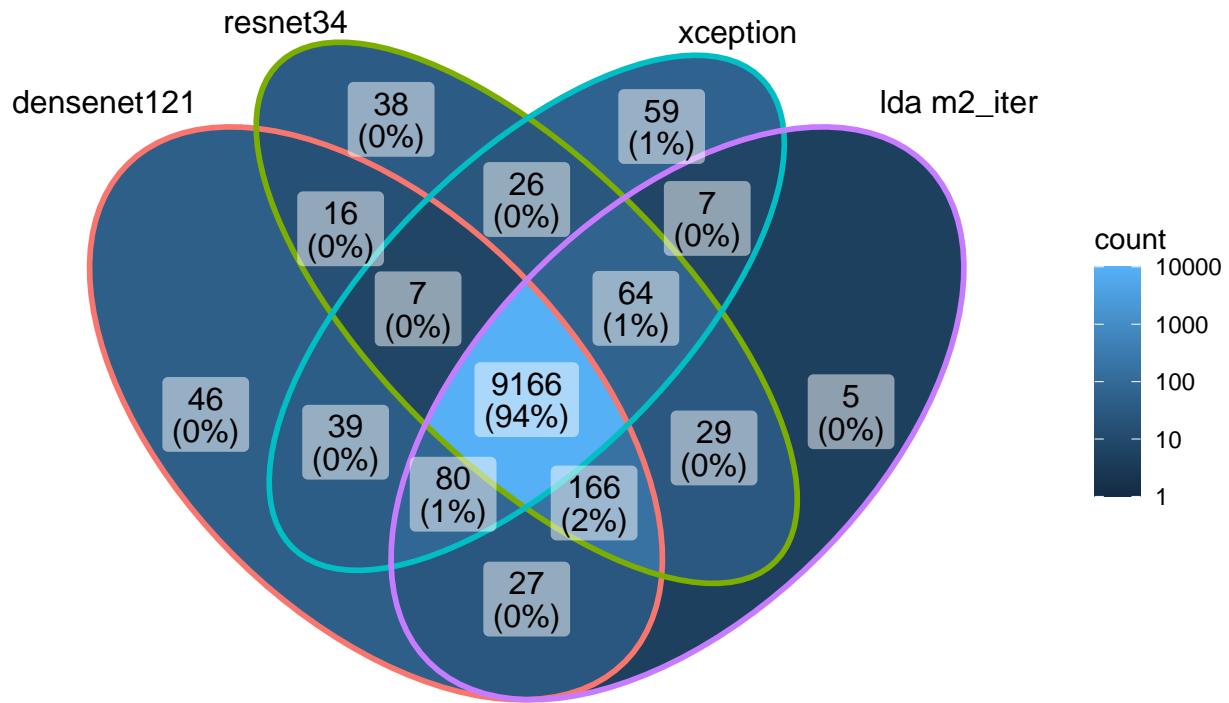


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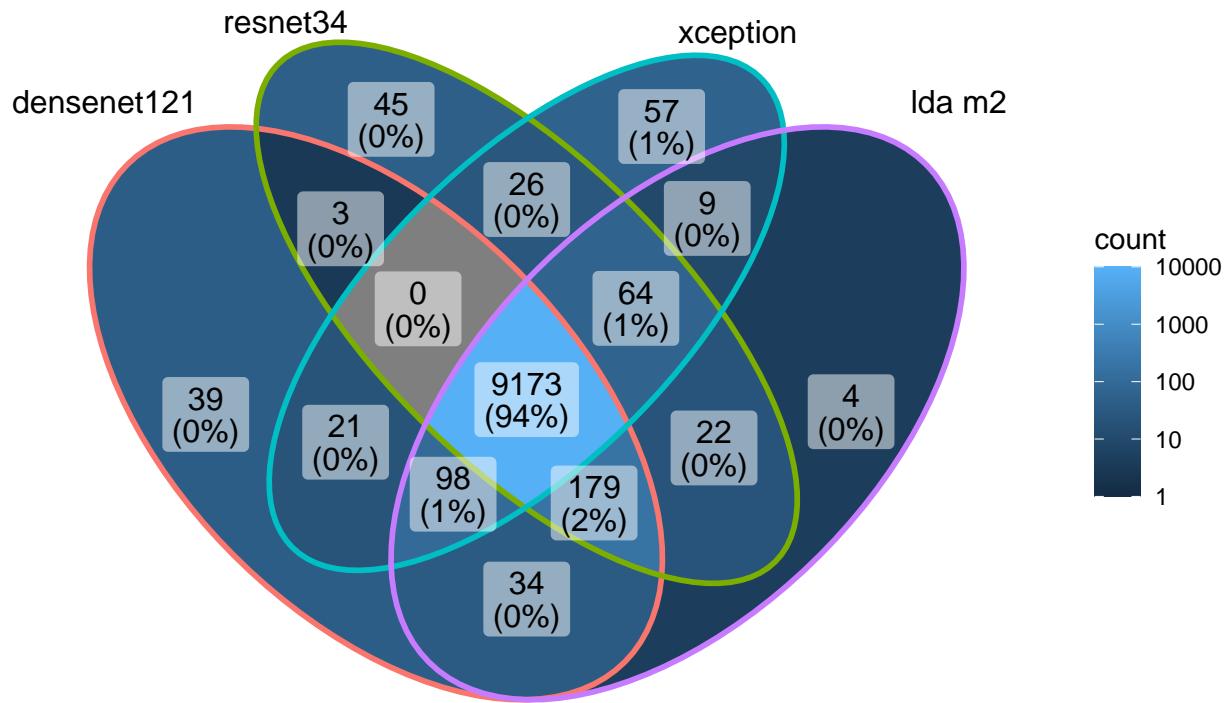


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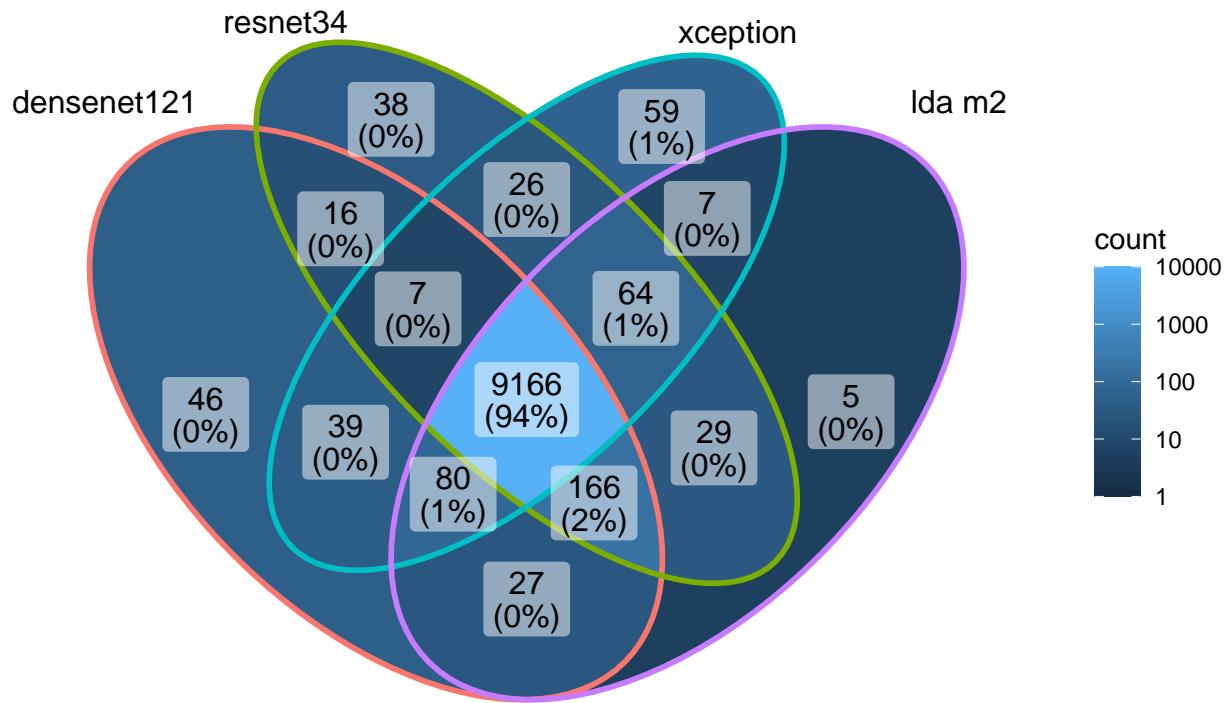


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tt – replication 5

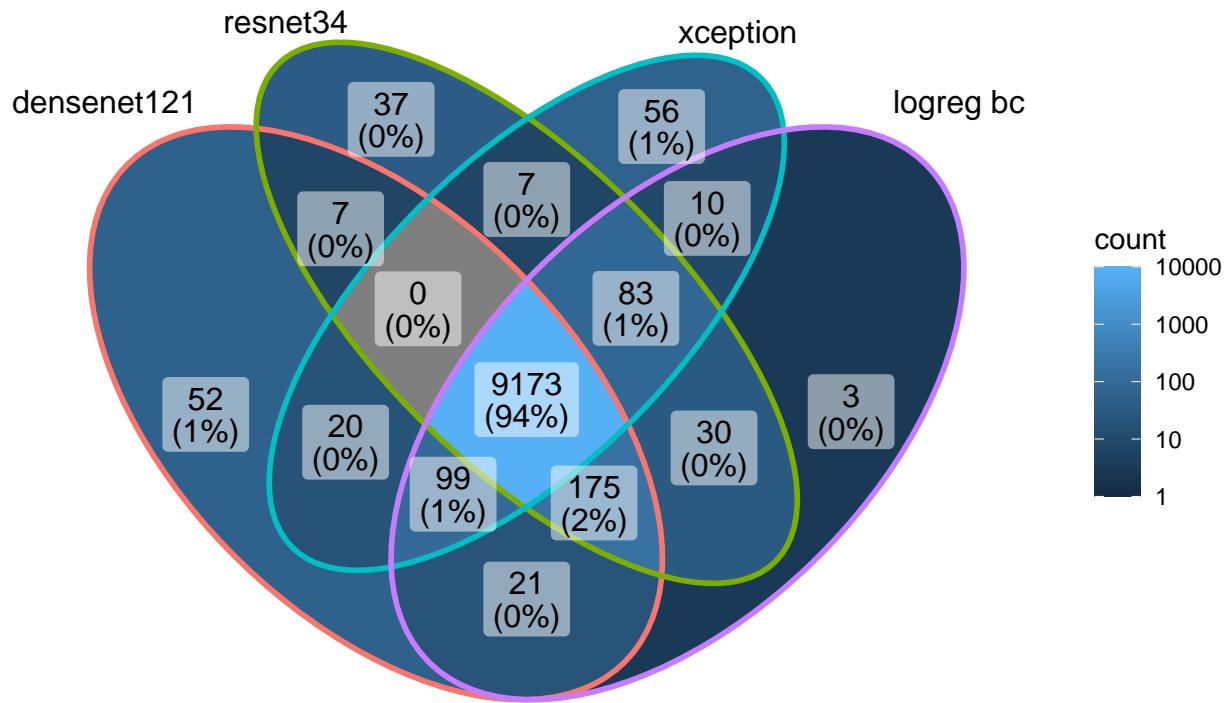


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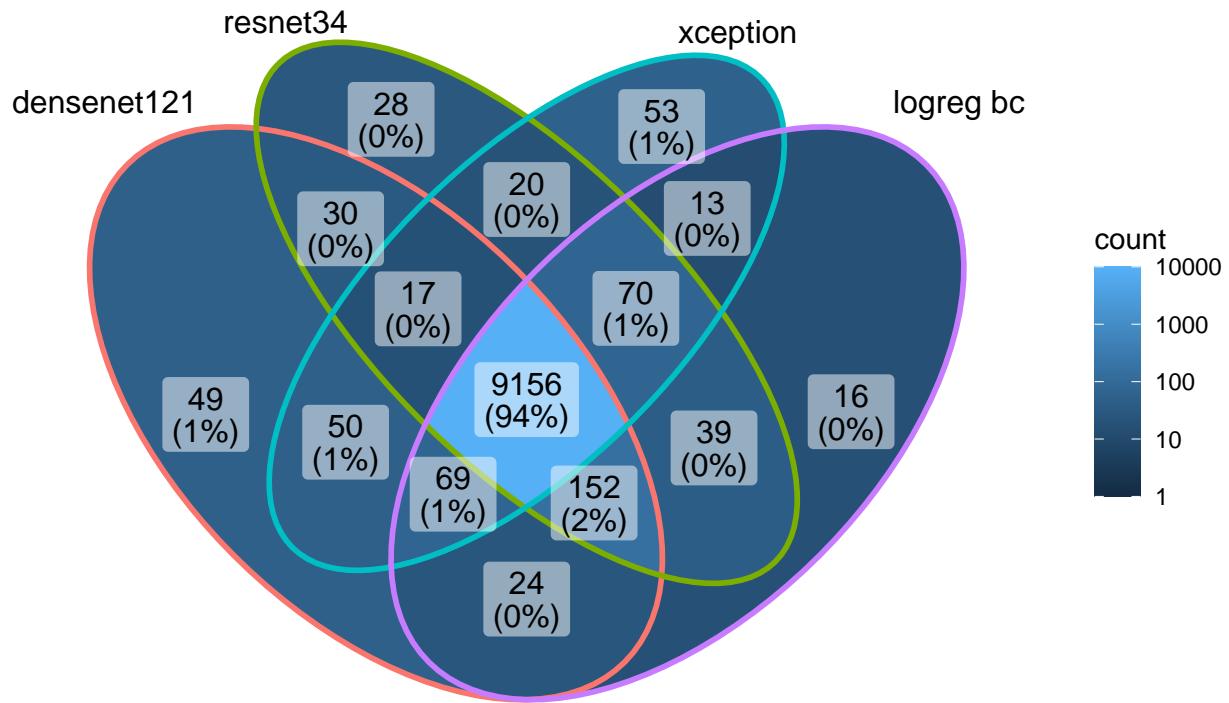


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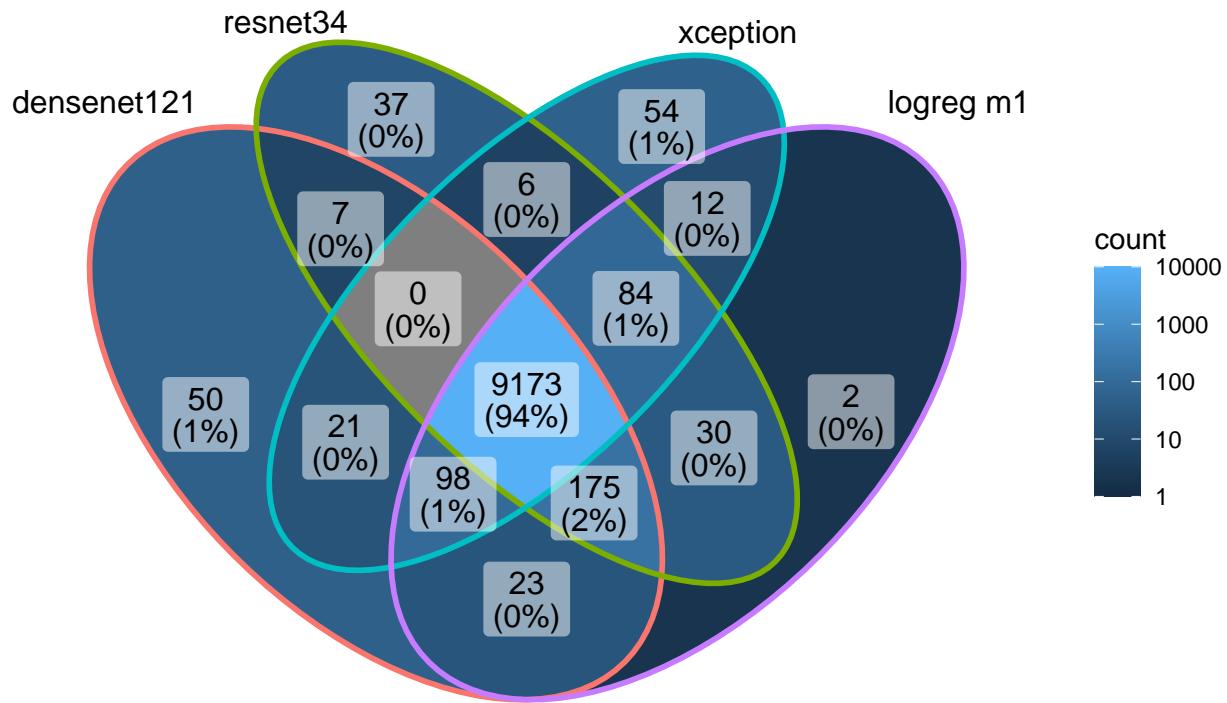


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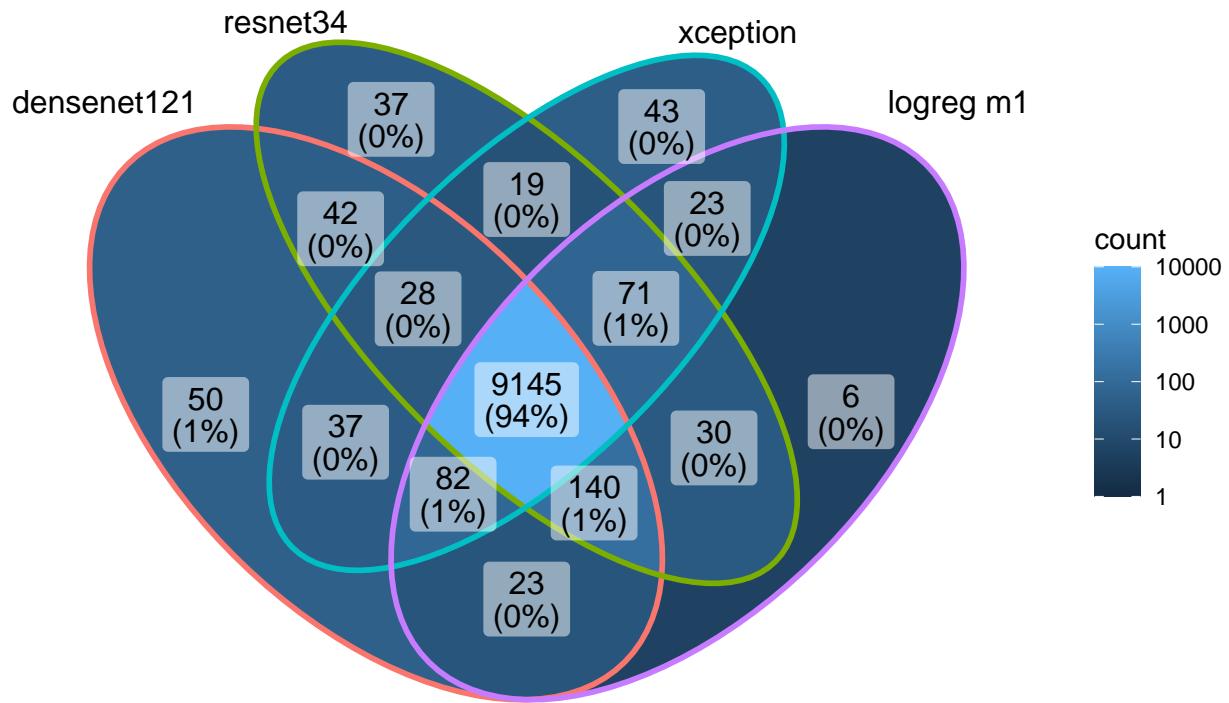


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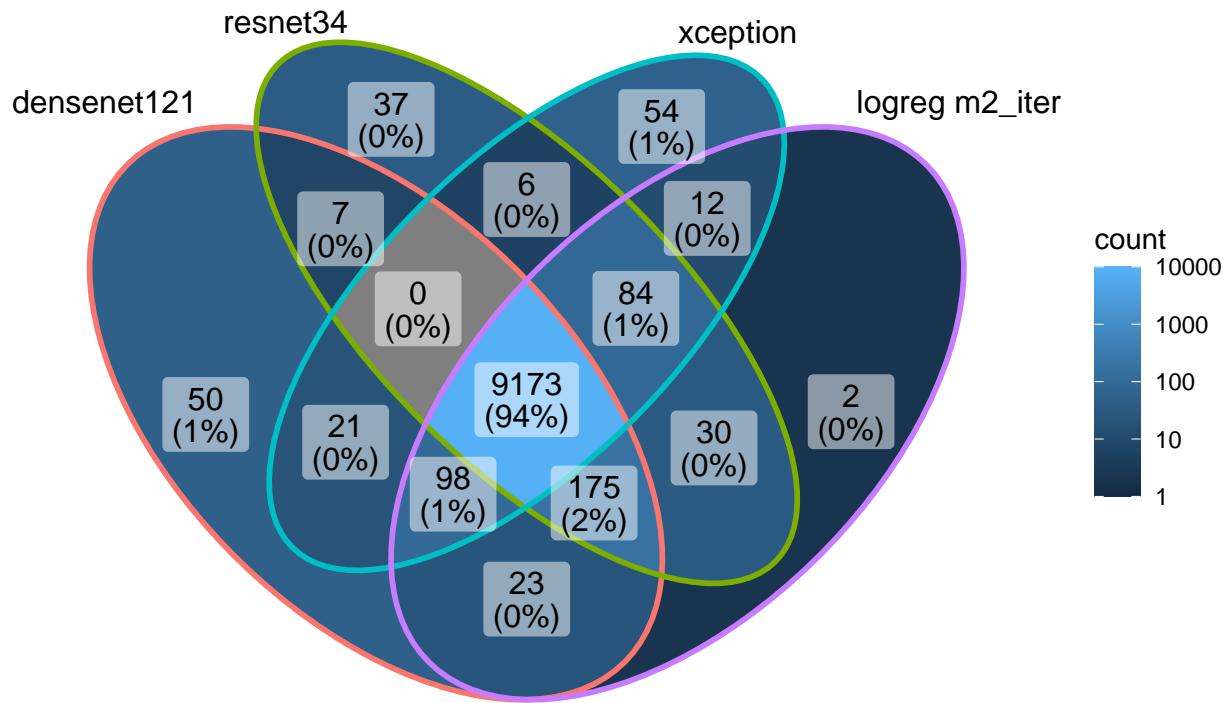


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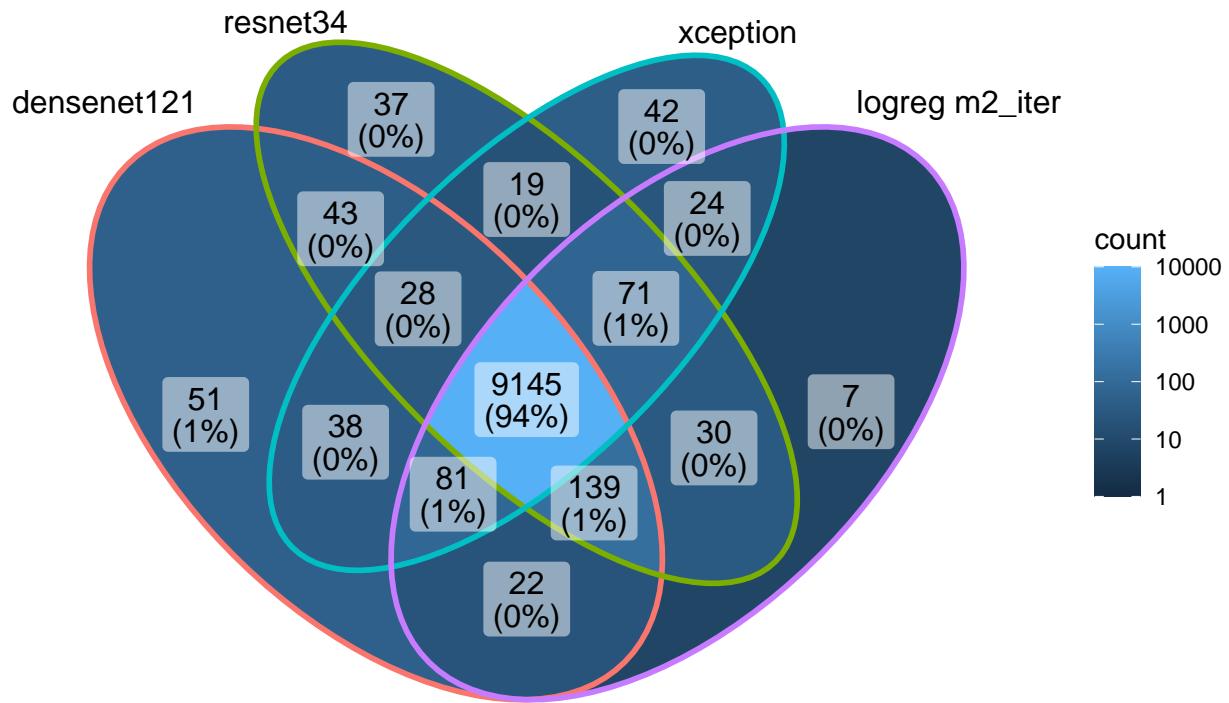


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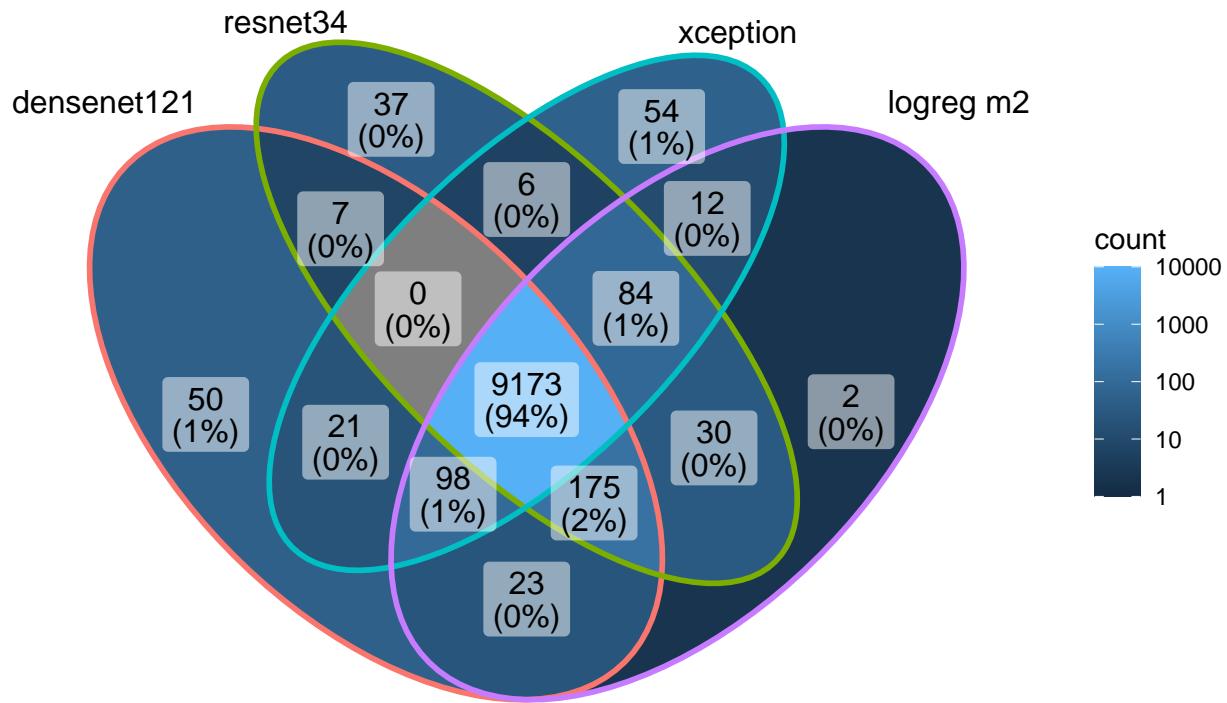


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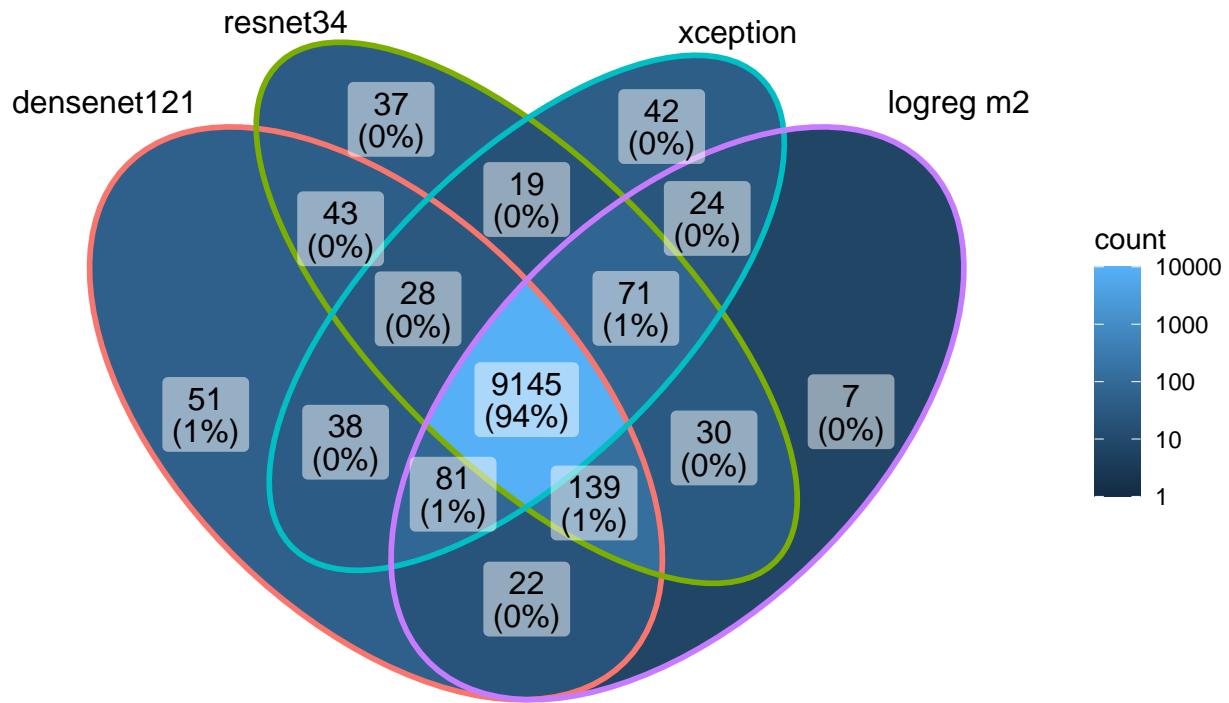


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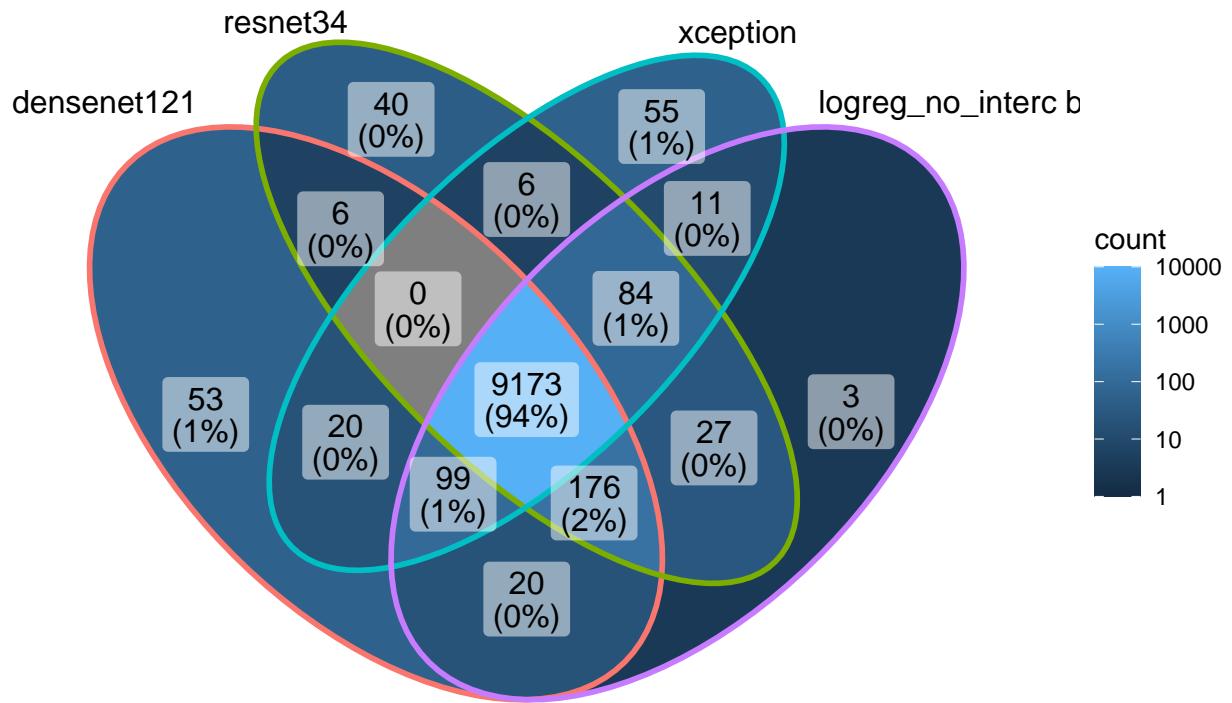


vt – replication 5



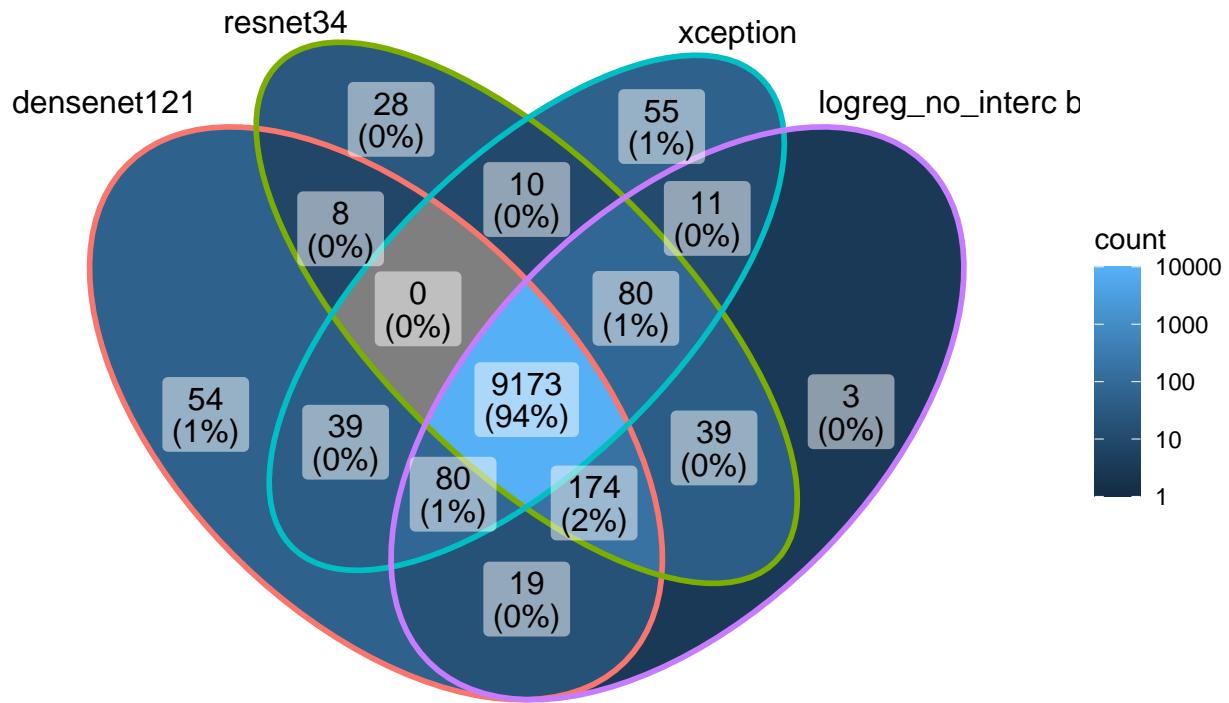
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tt – replication 5



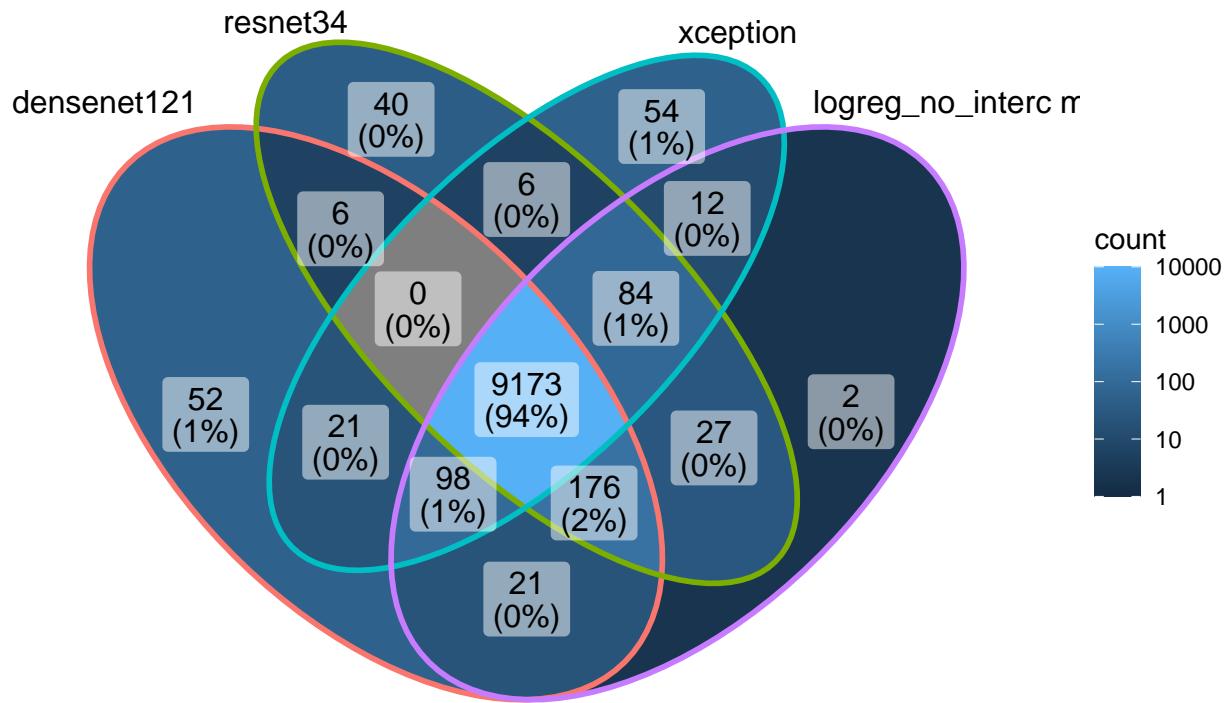
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vt – replication 5

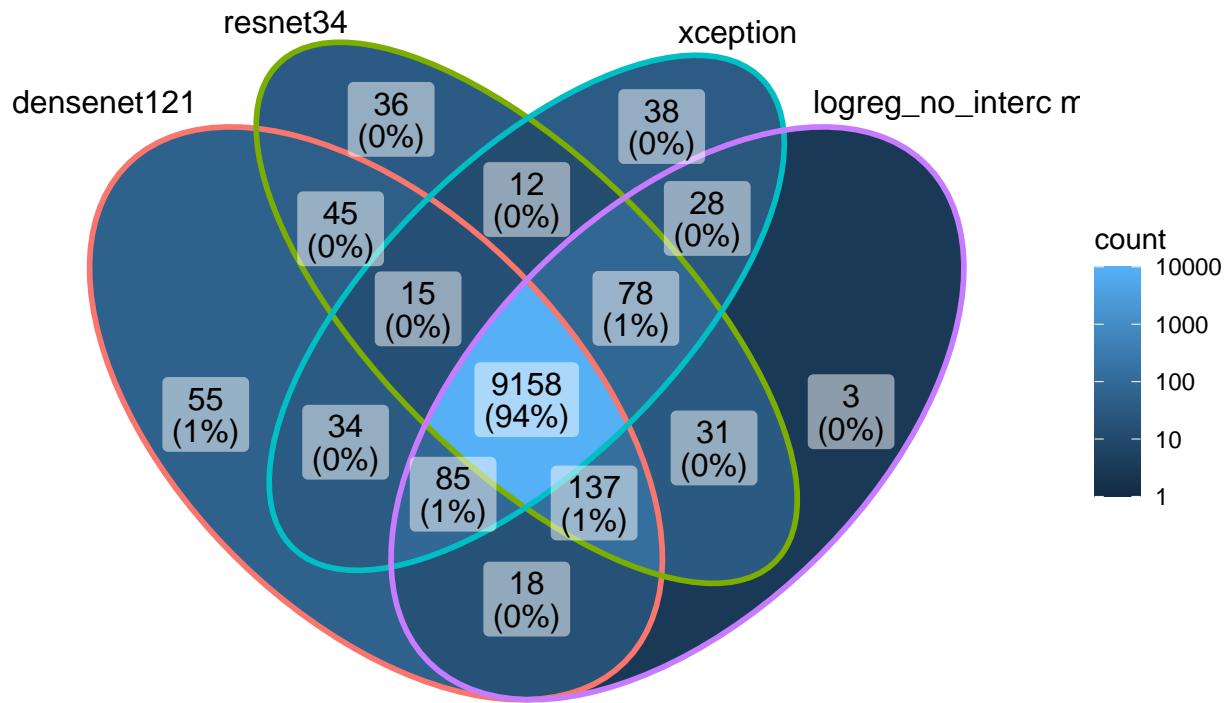


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tt – replication 5

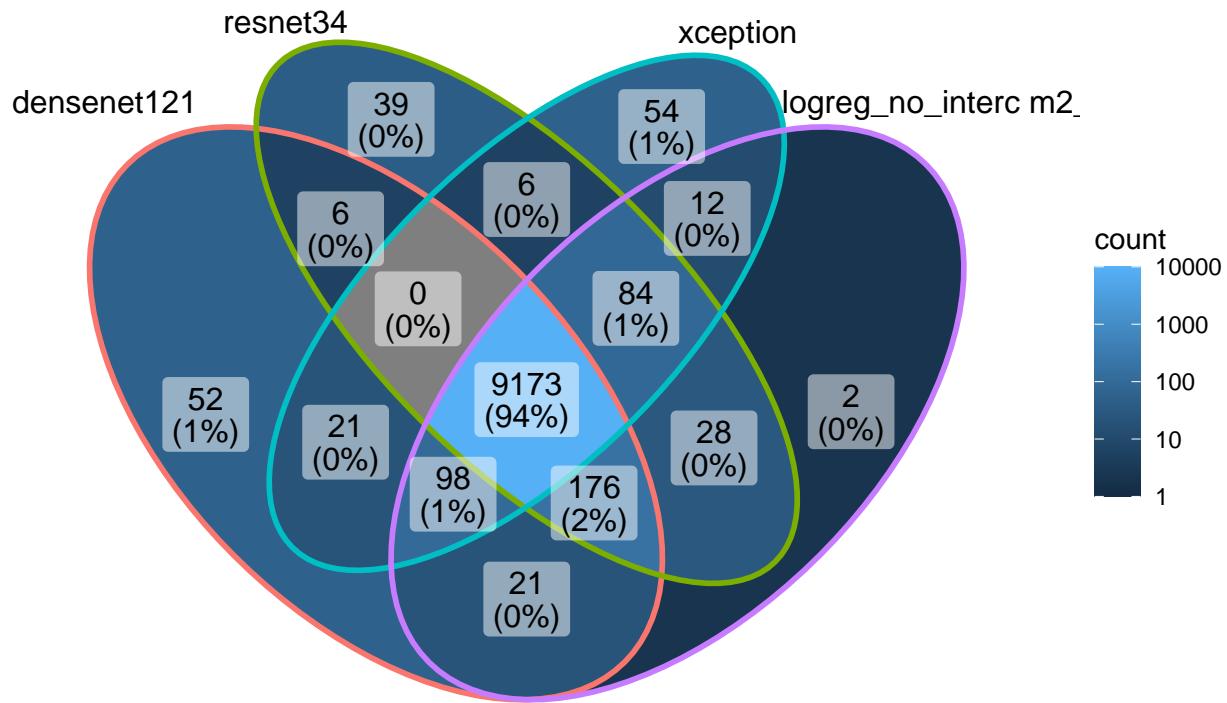


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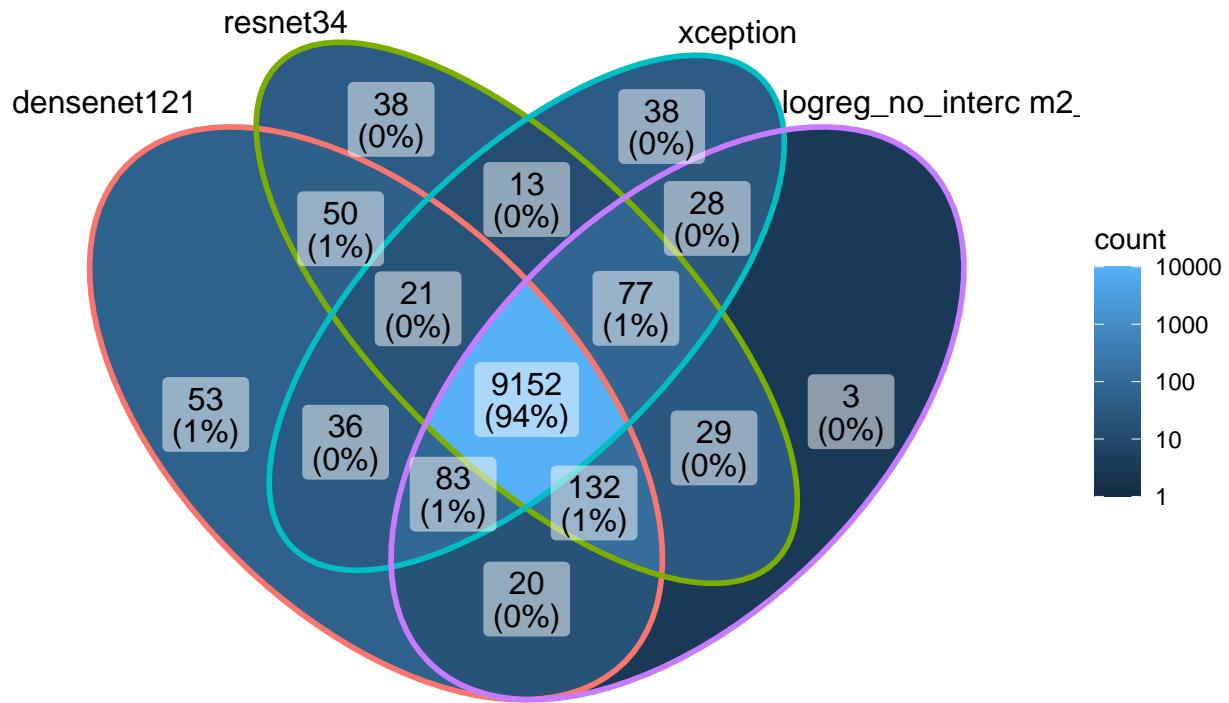


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tt – replication 5

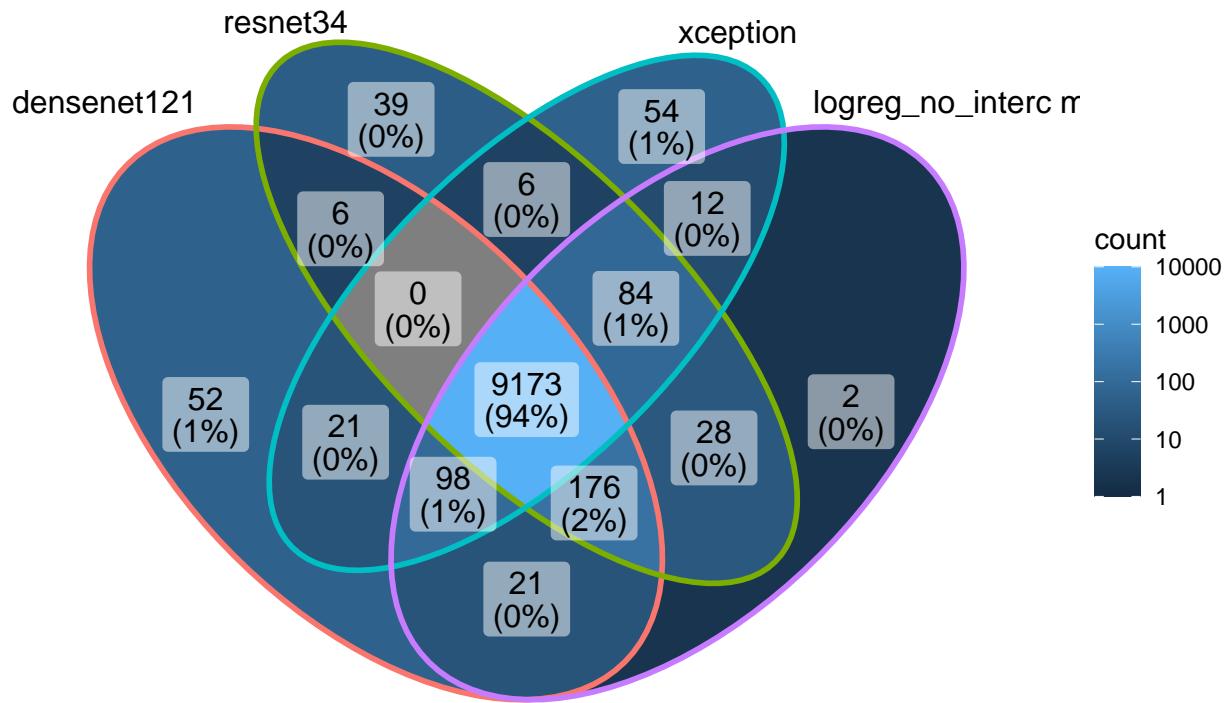


vt – replication 5

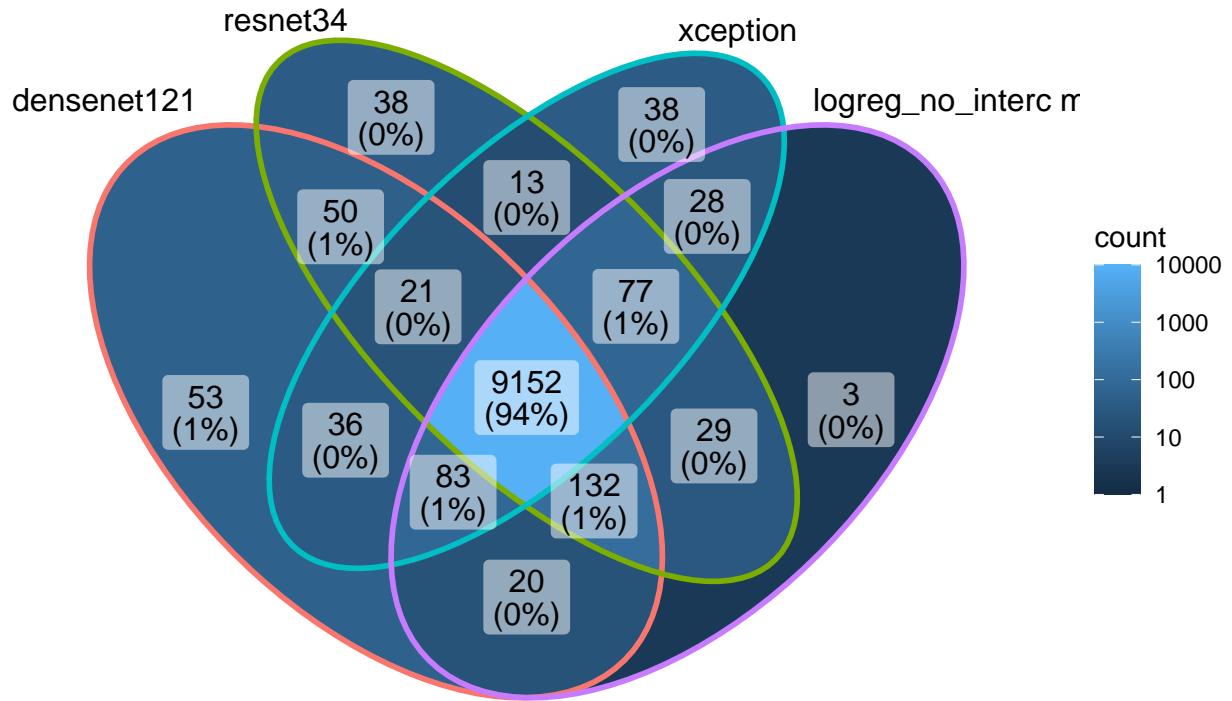


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tt – replication 5

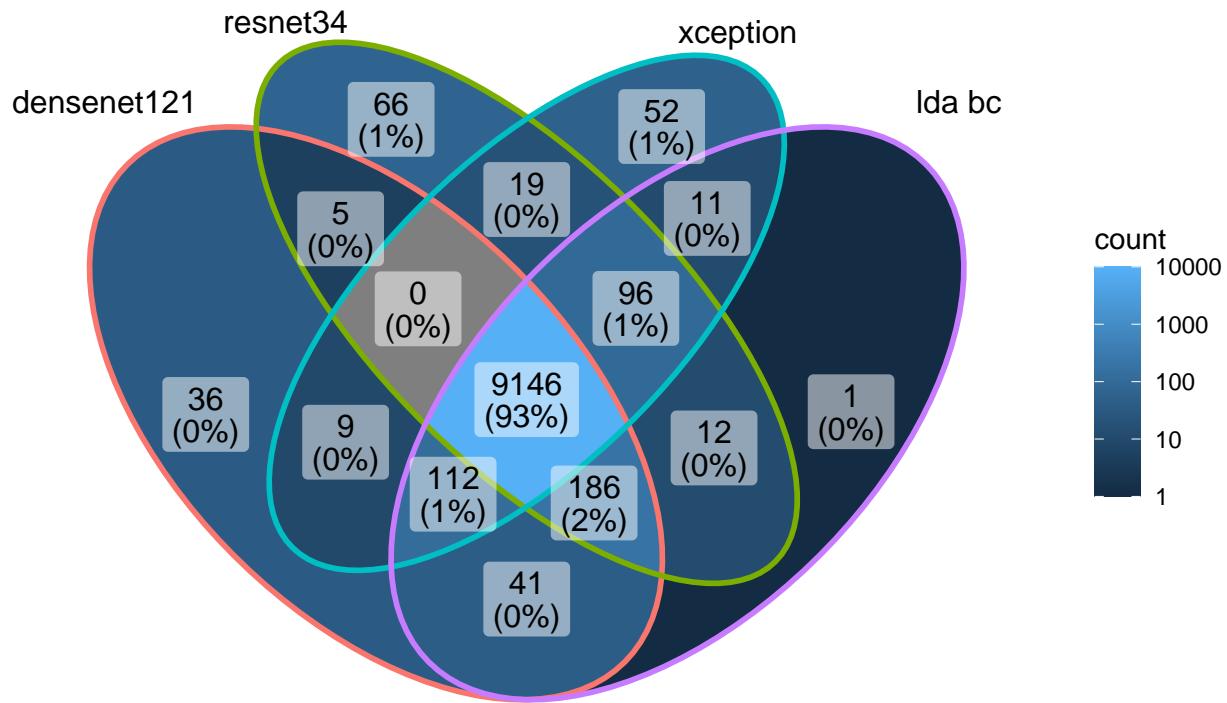


vt – replication 5



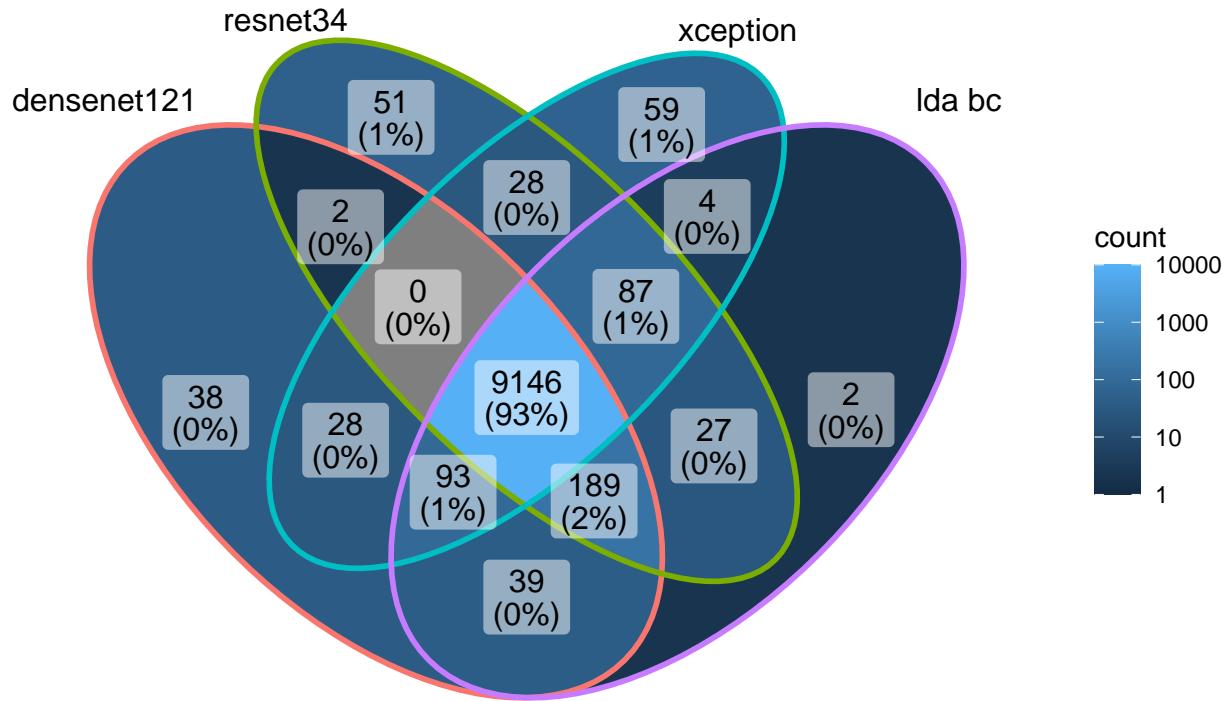
Warning: Transformation introduced infinite values in discrete y-axis

tt – replication 6



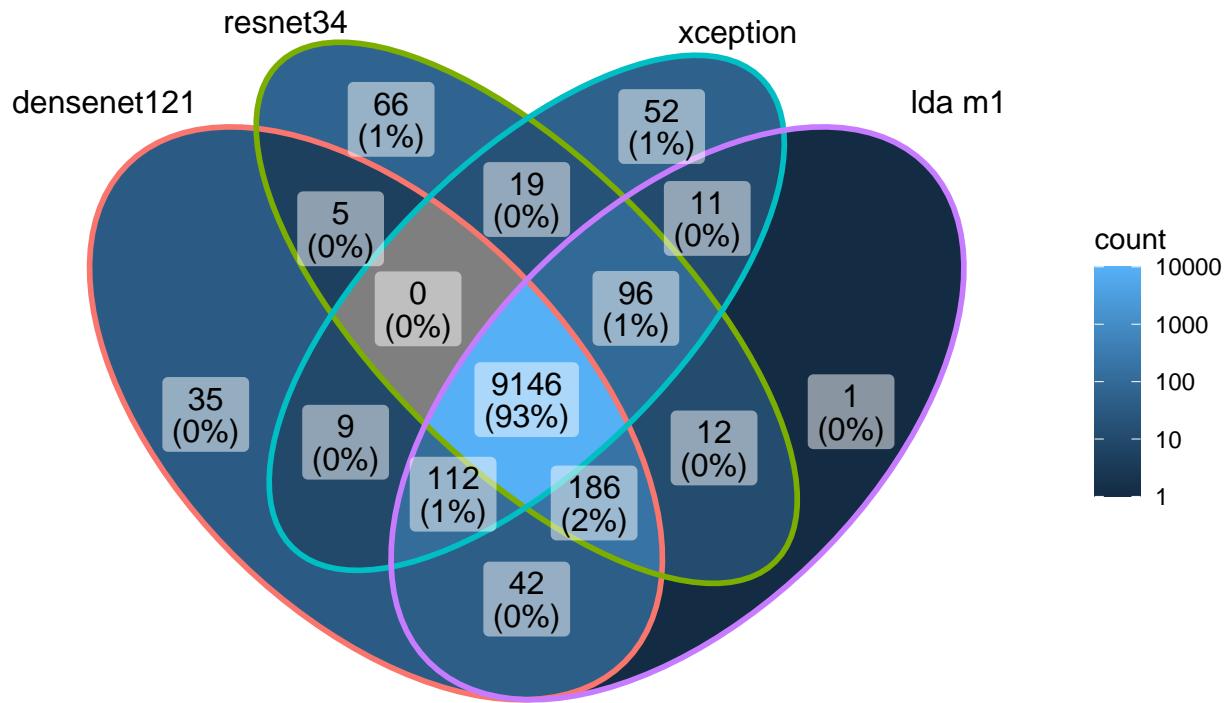
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vt – replication 6

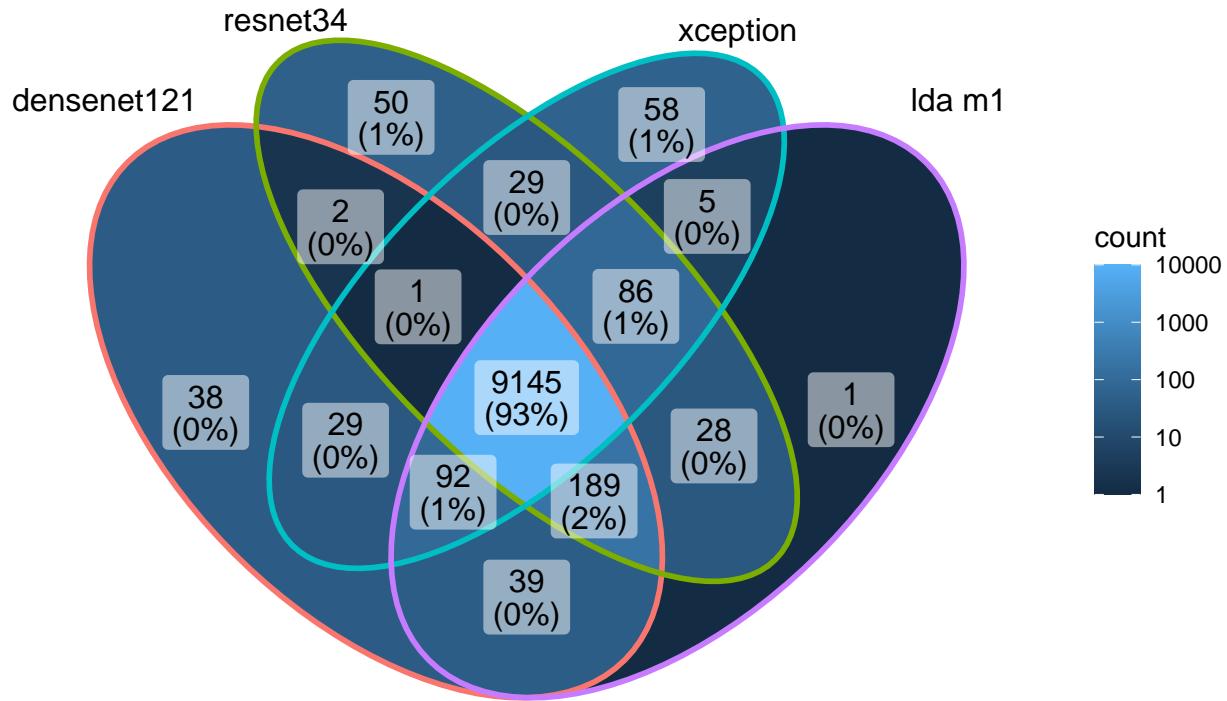


Warning: Transformation introduced infinite values in discrete y-axis

tt – replication 6

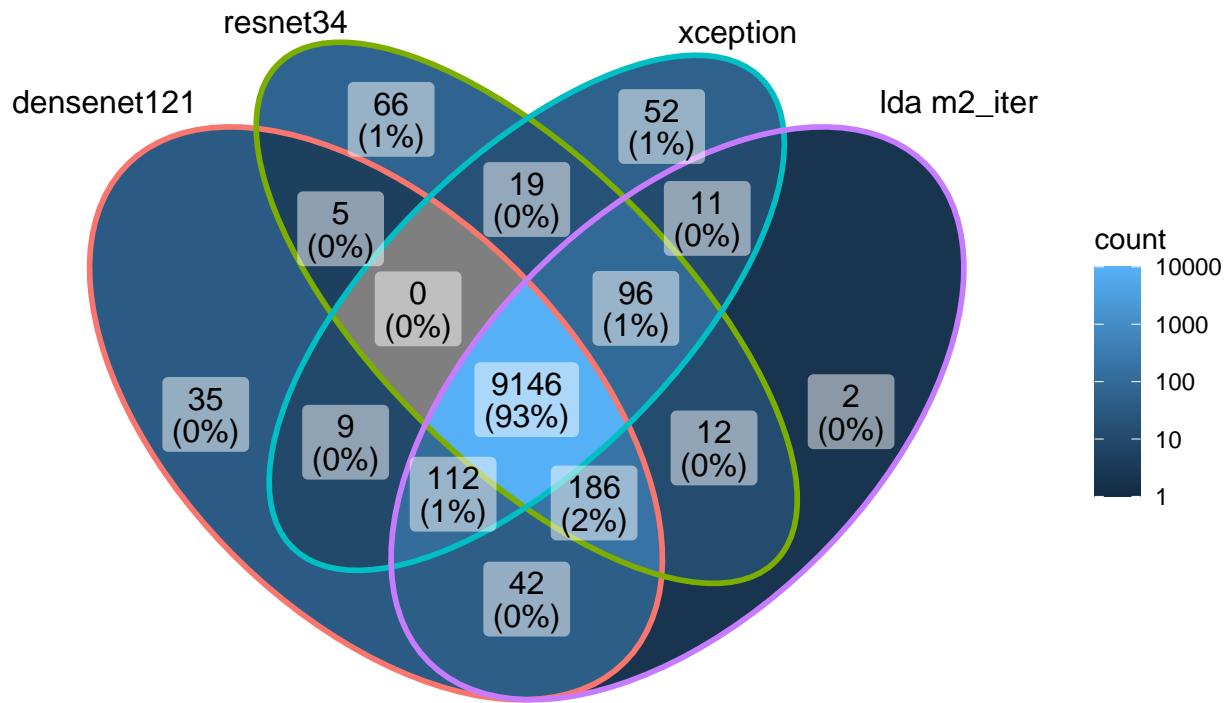


vt – replication 6

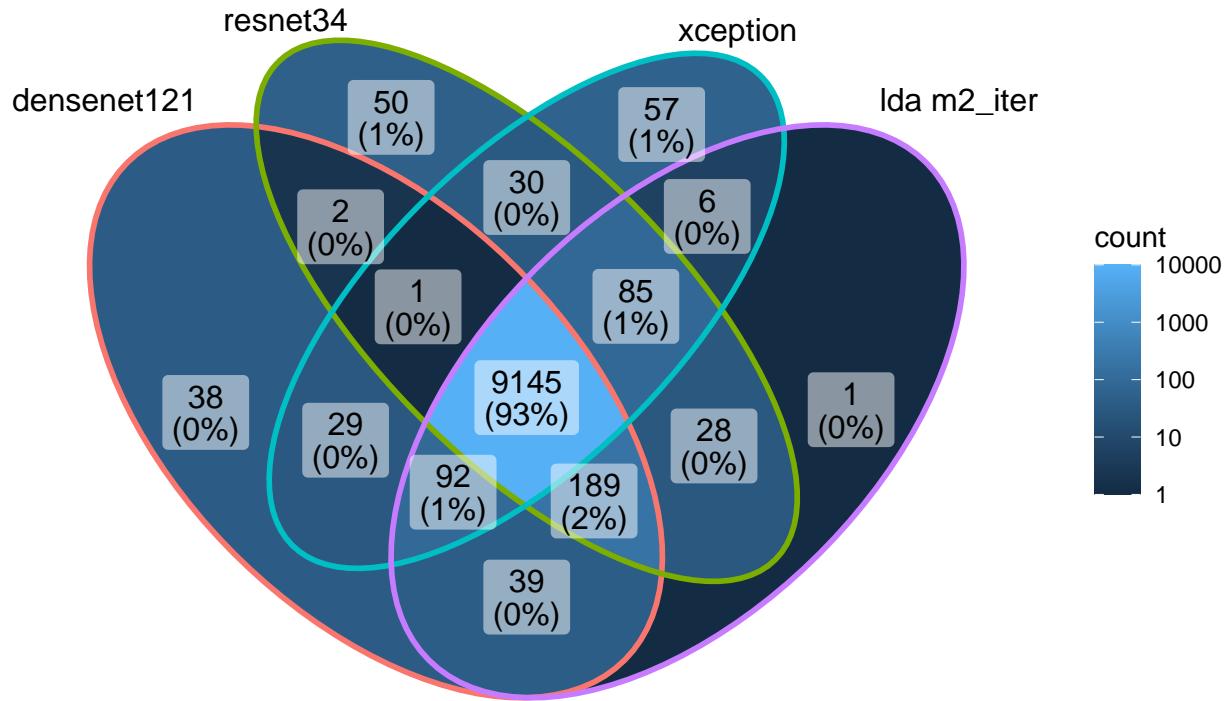


Warning: Transformation introduced infinite values in discrete y-axis

tt – replication 6

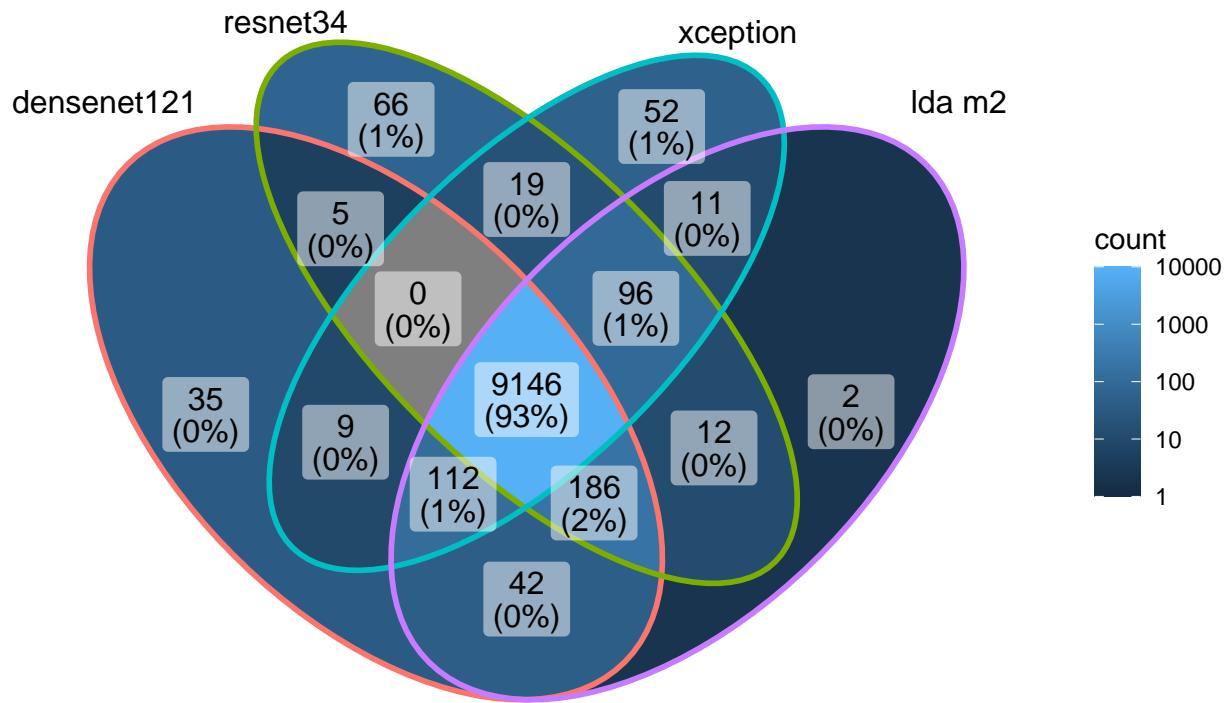


vt – replication 6

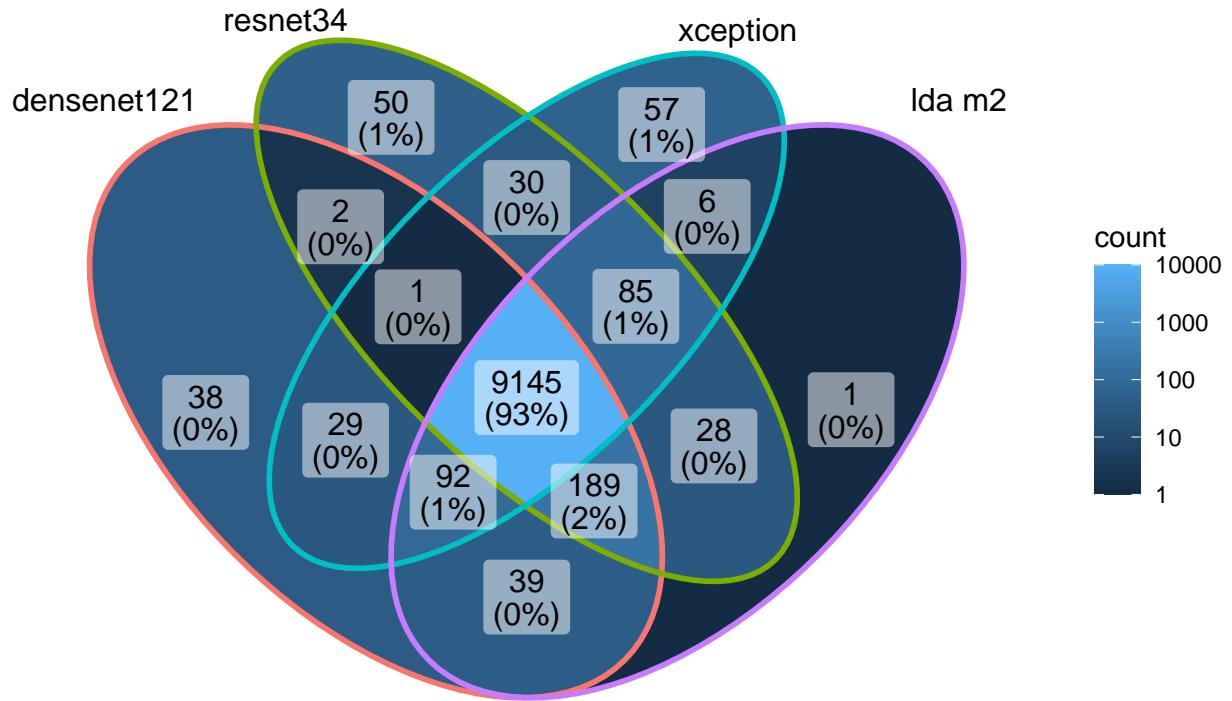


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tt – replication 6

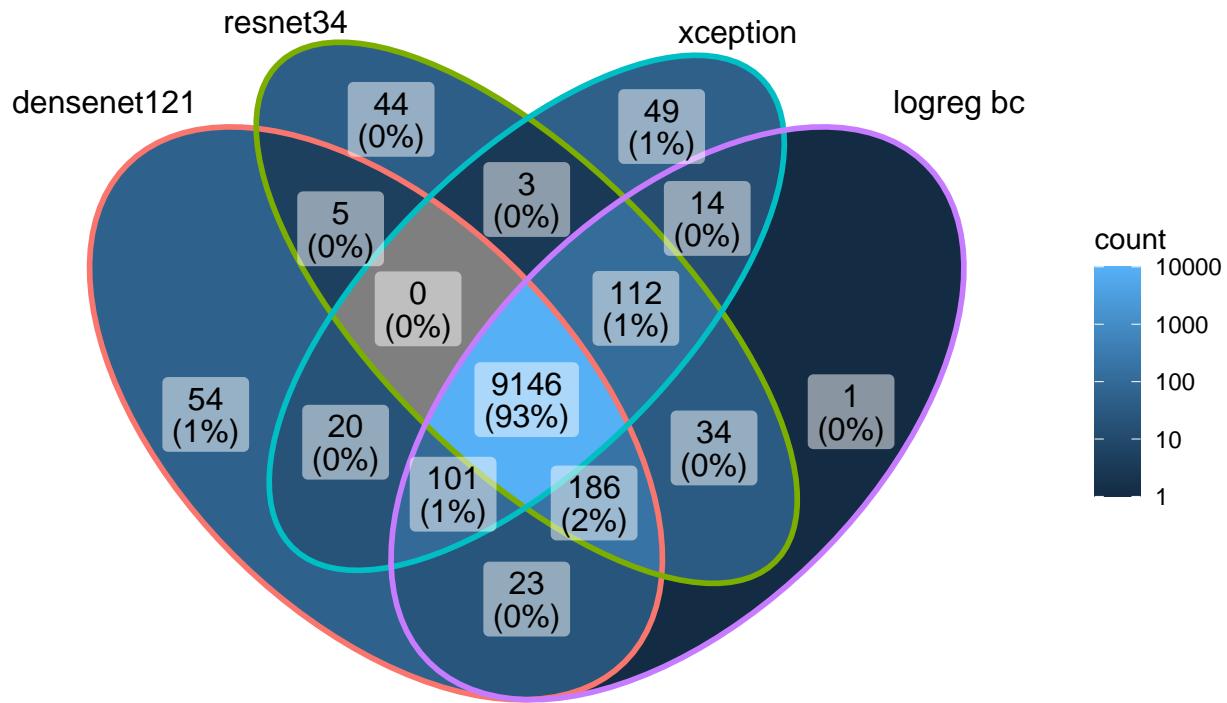


vt – replication 6

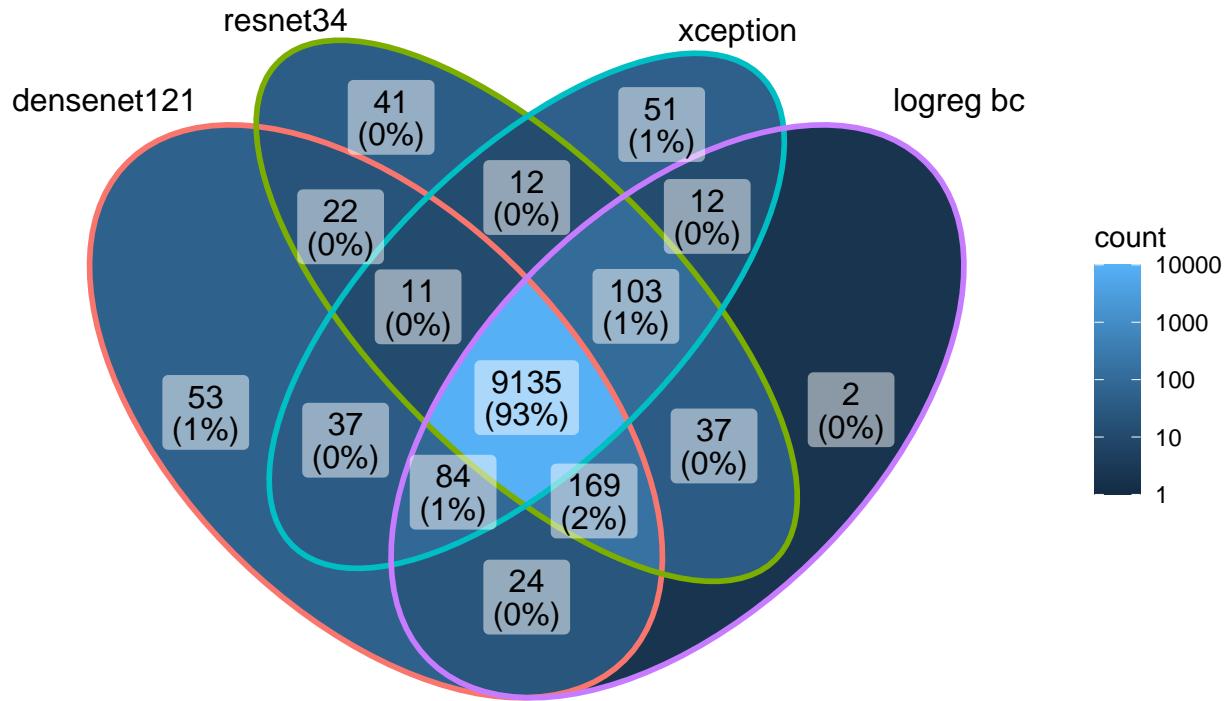


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tt – replication 6

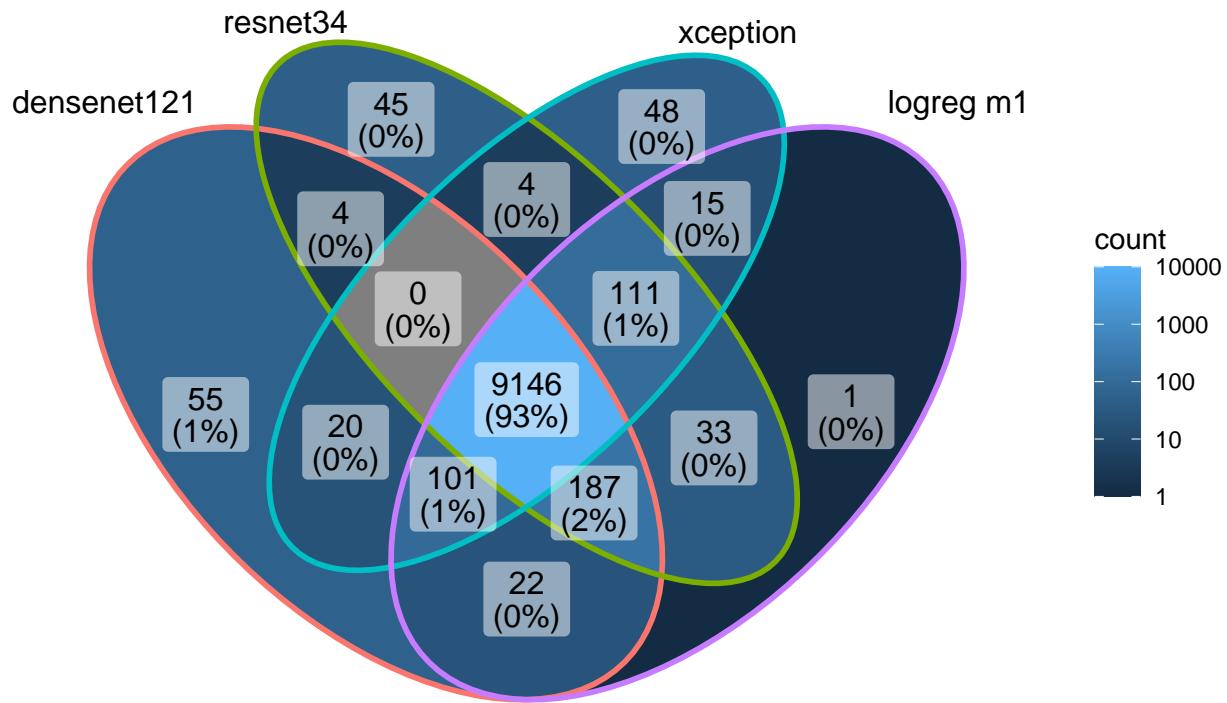


vt – replication 6

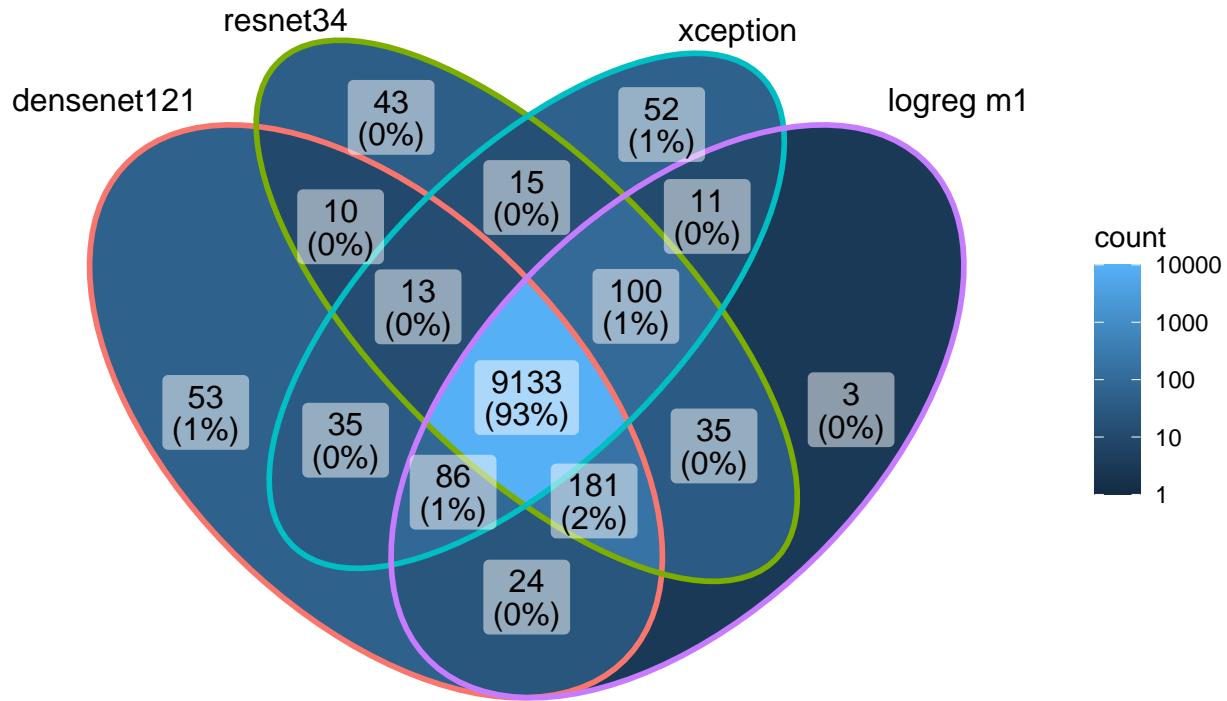


Warning: Transformation introduced infinite values in discrete y-axis

tt – replication 6

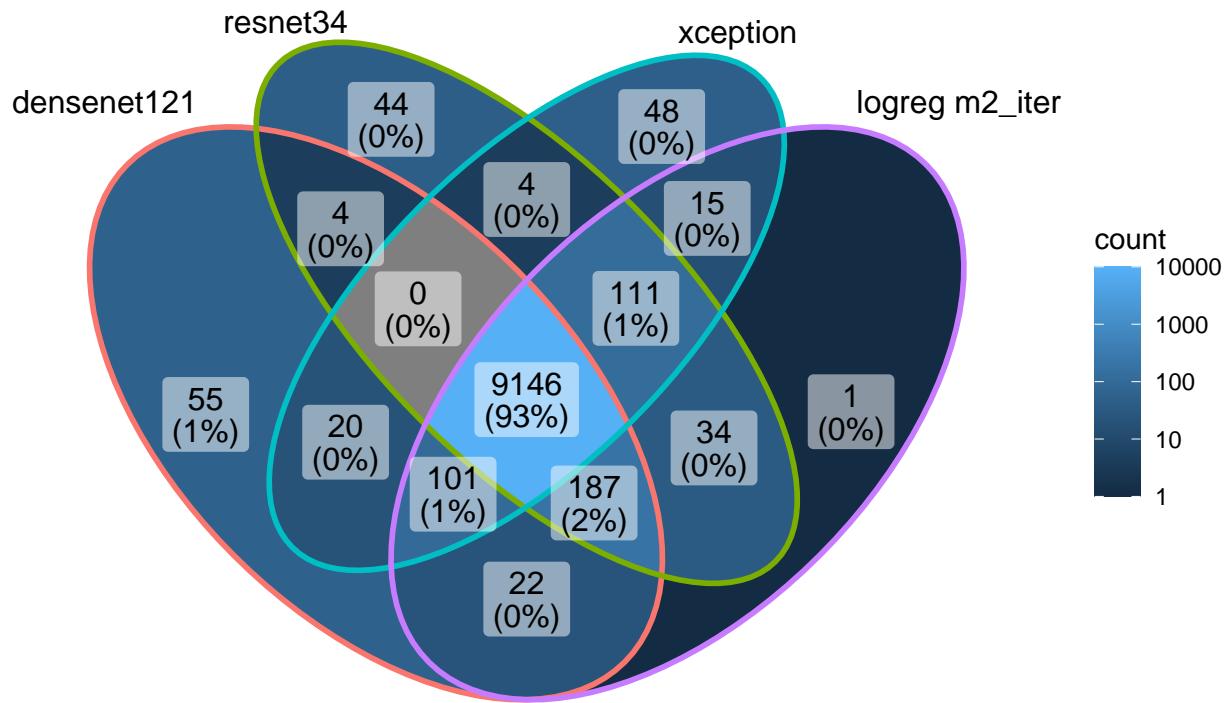


vt – replication 6

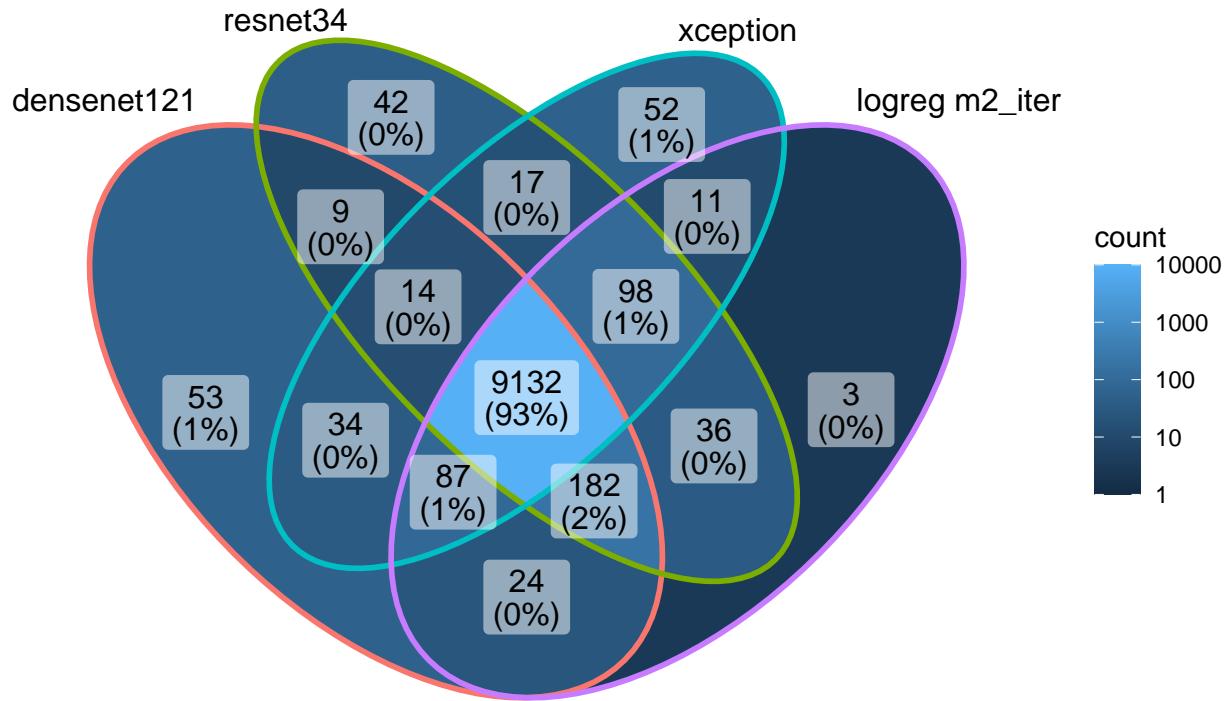


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tt – replication 6

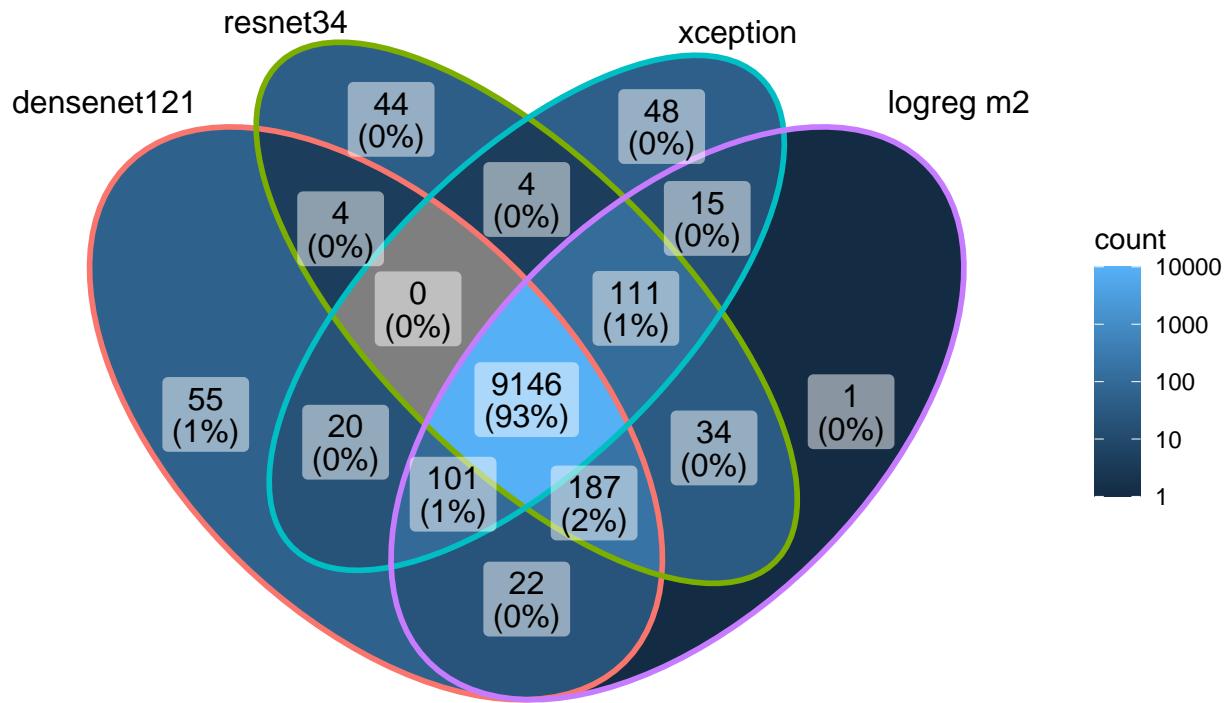


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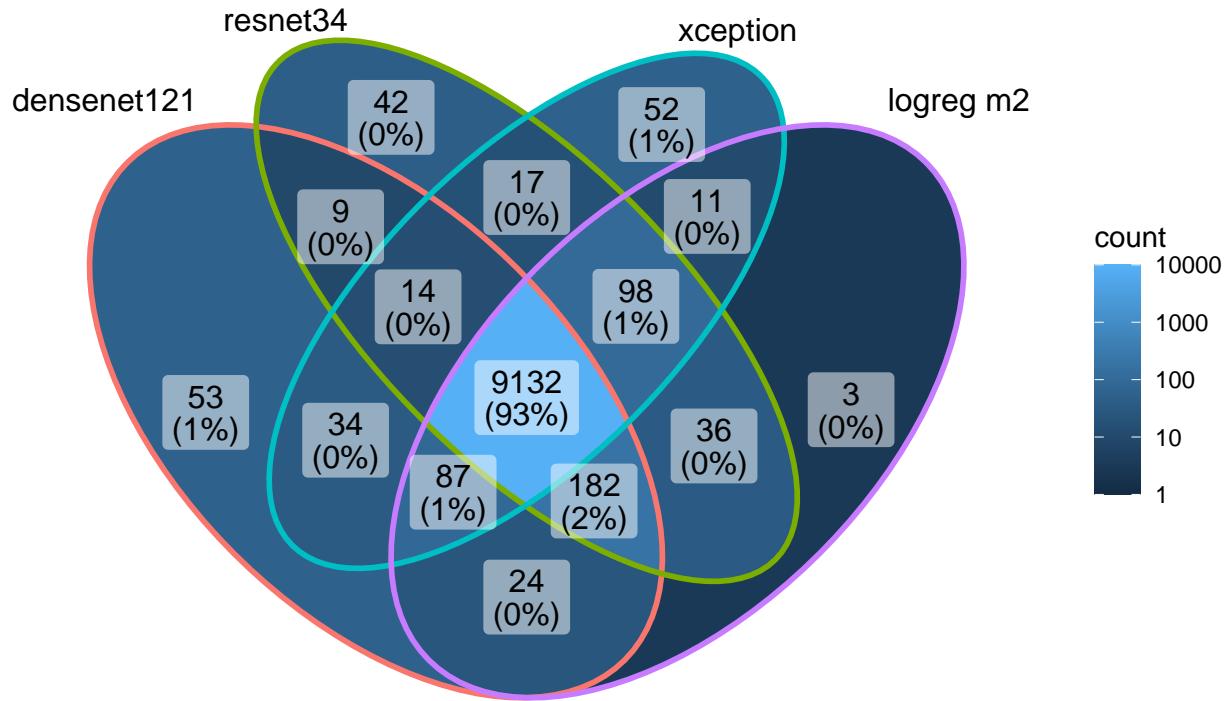


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tt – replication 6

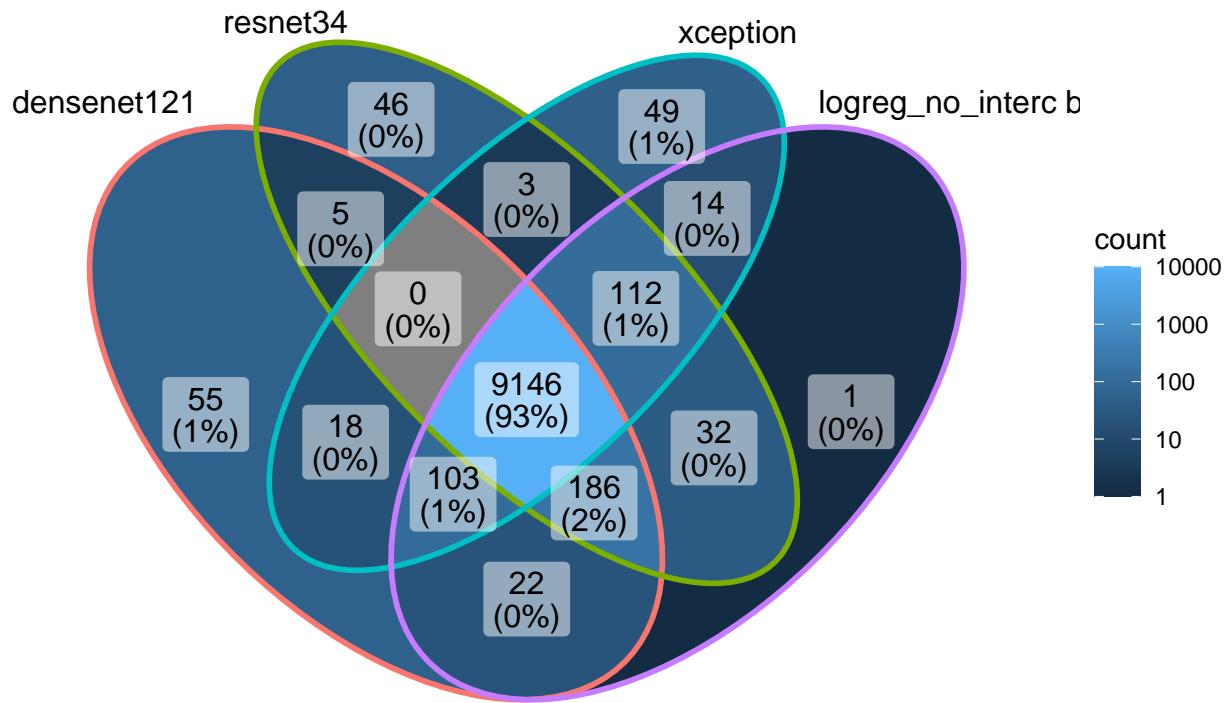


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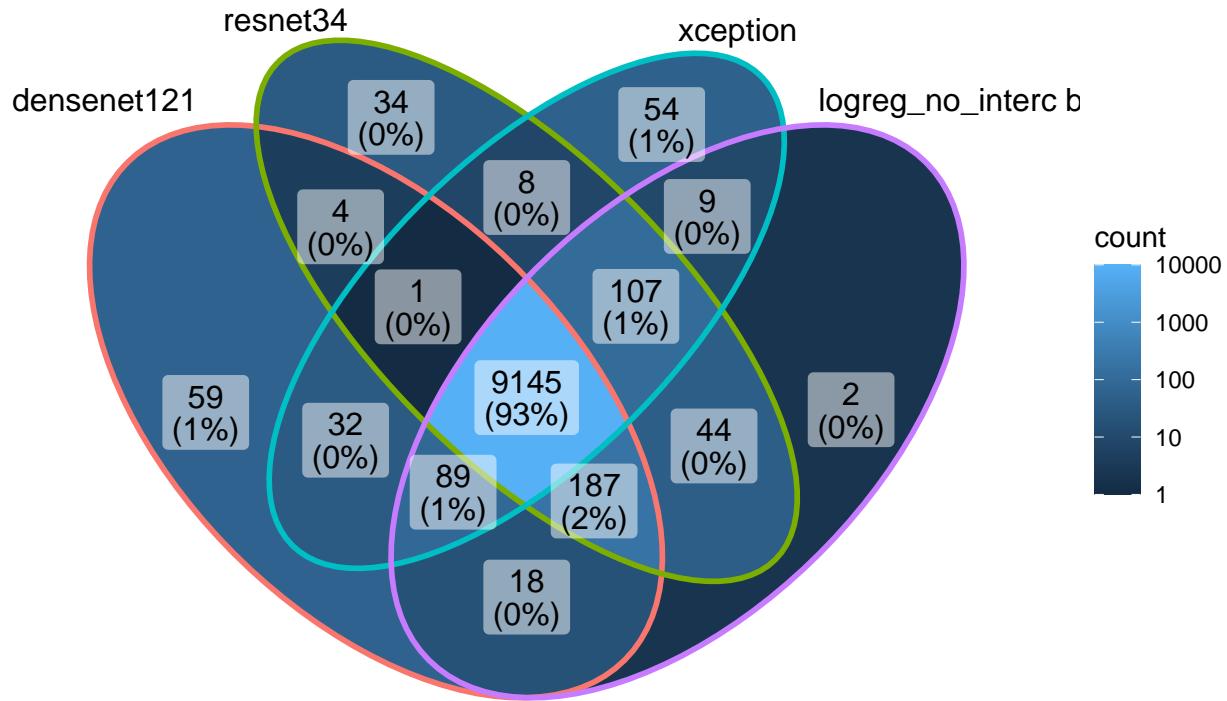


Warning: Transformation introduced infinite values in discrete y-axis

tt – replication 6

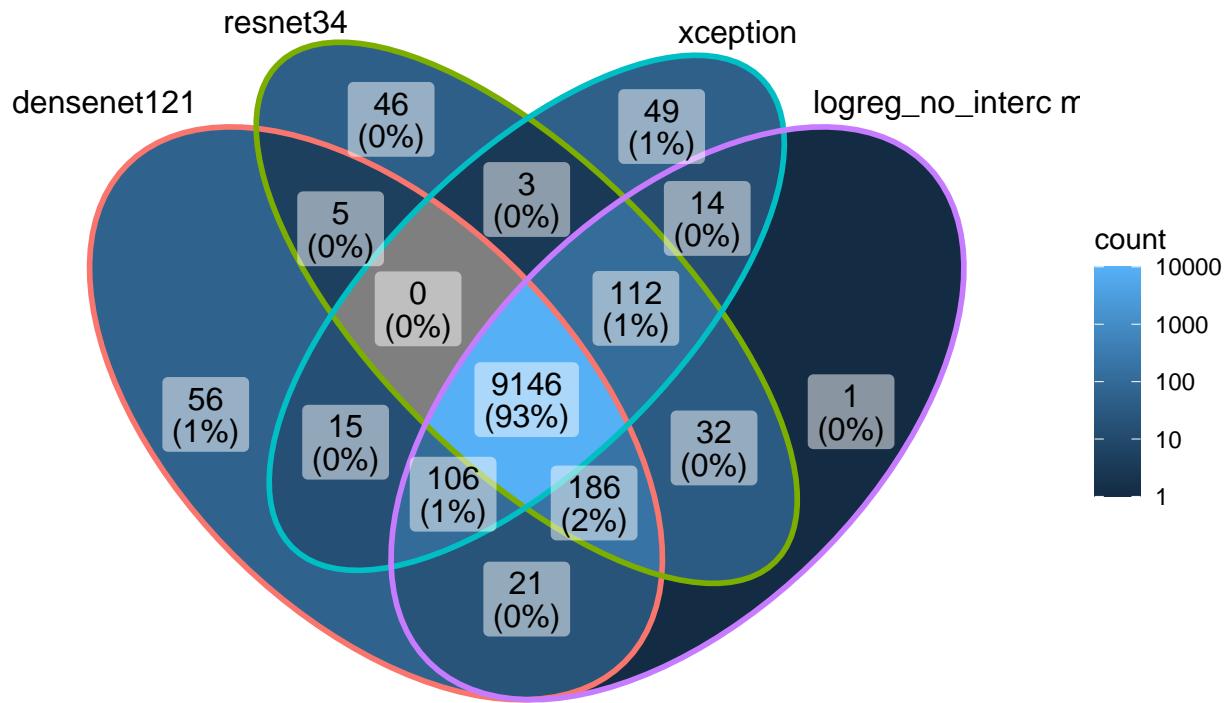


vt – replication 6

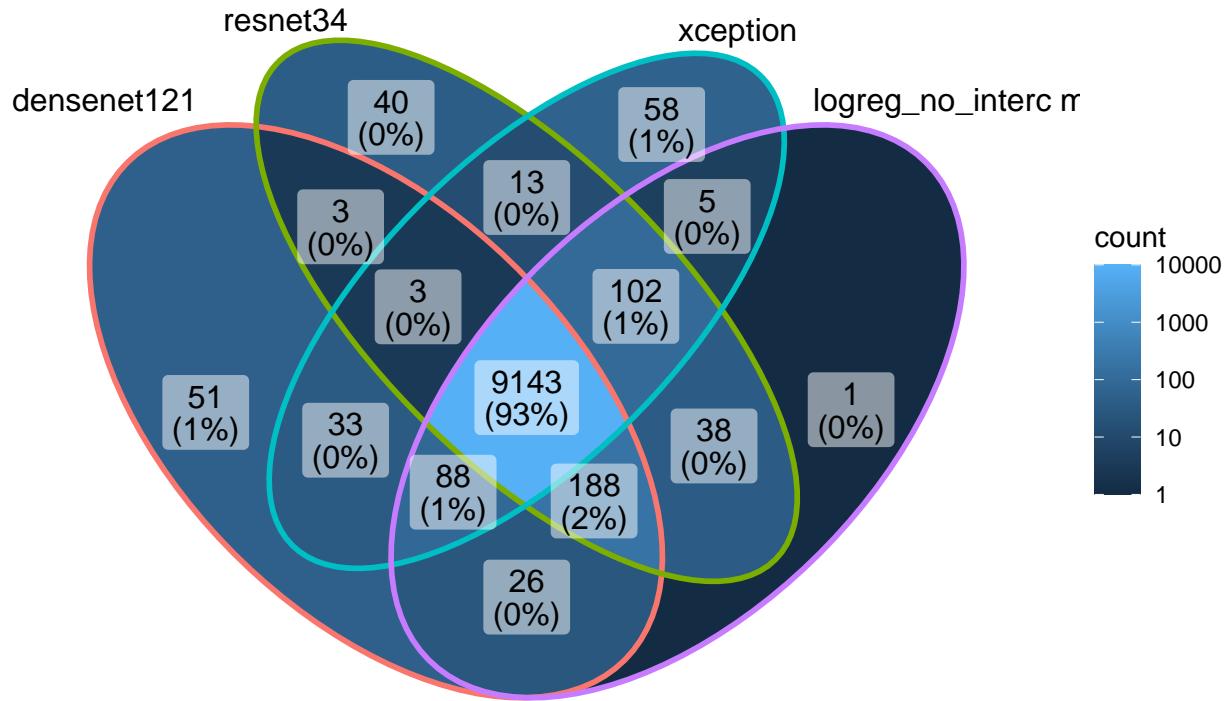


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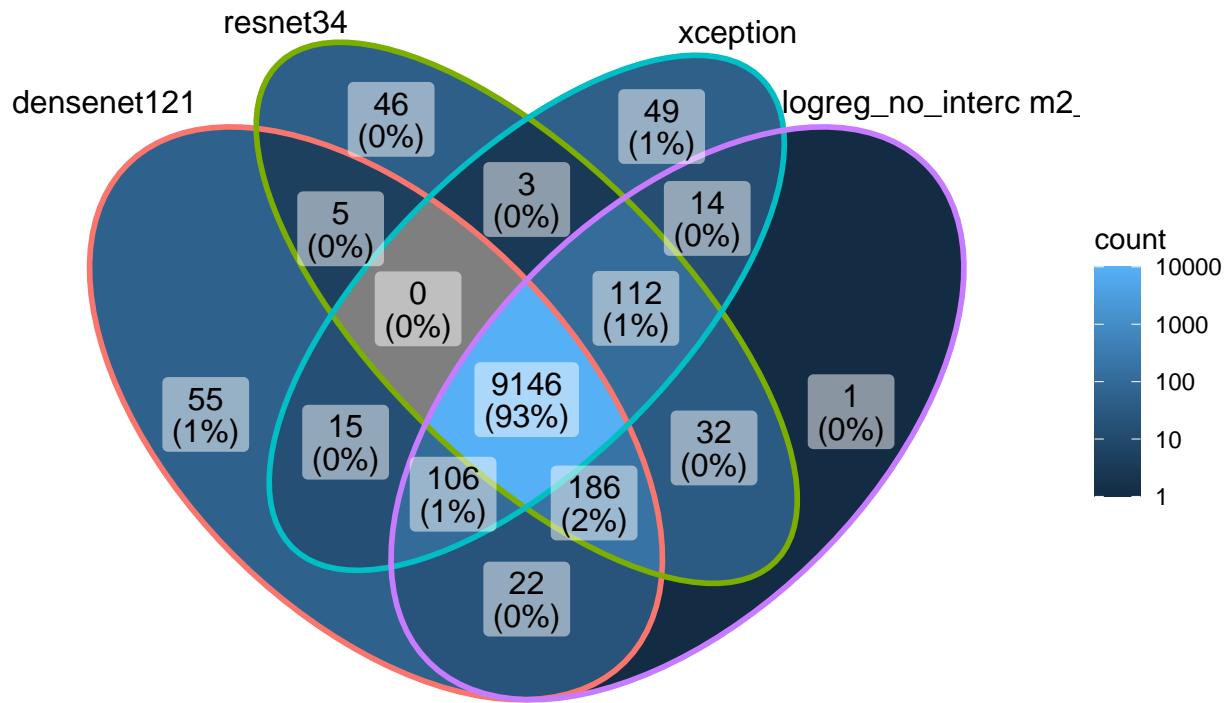


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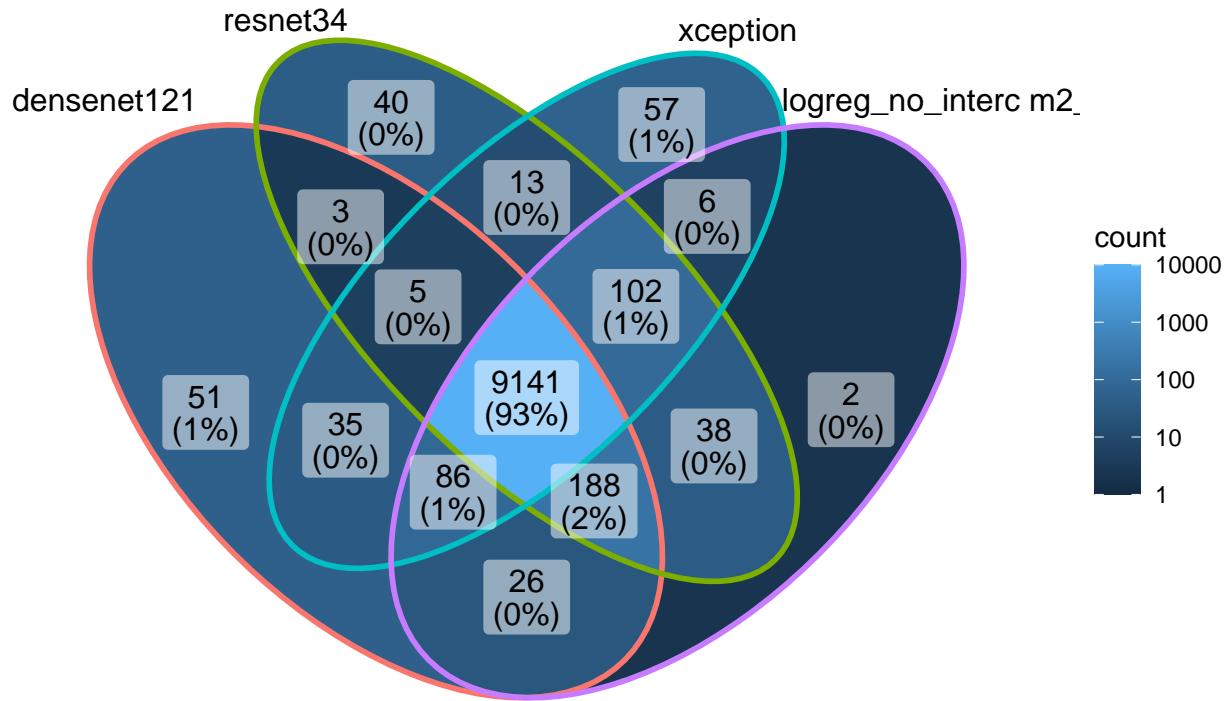


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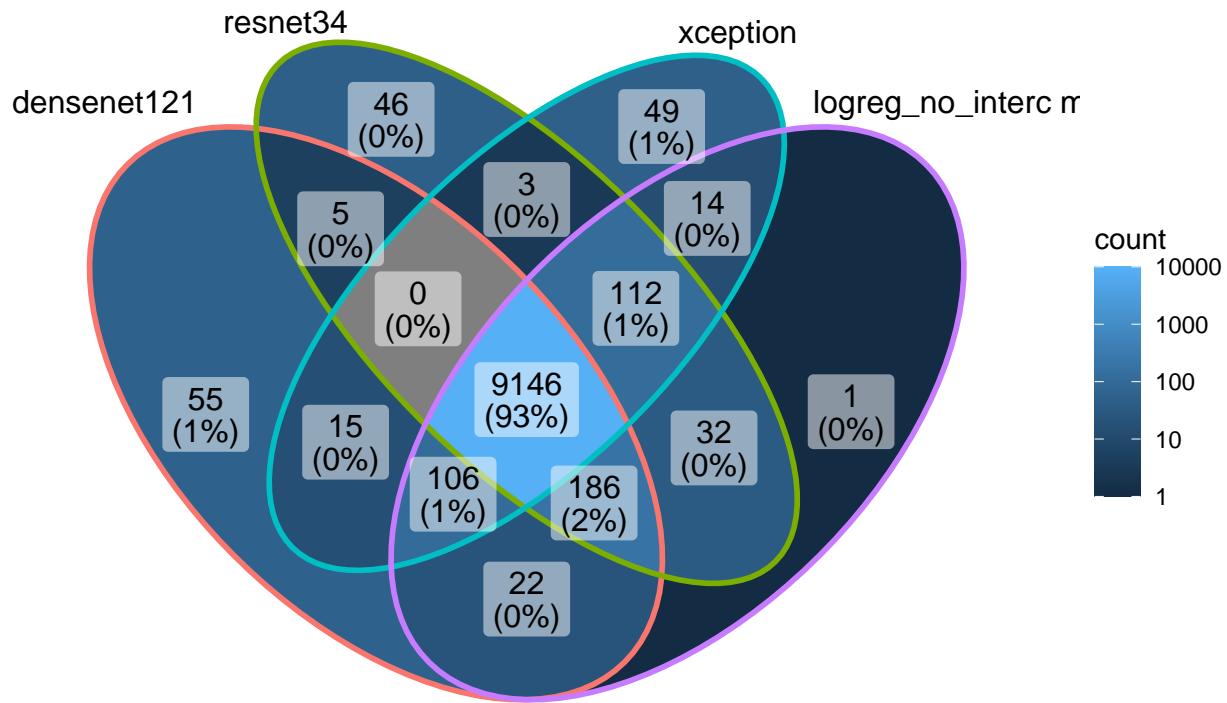


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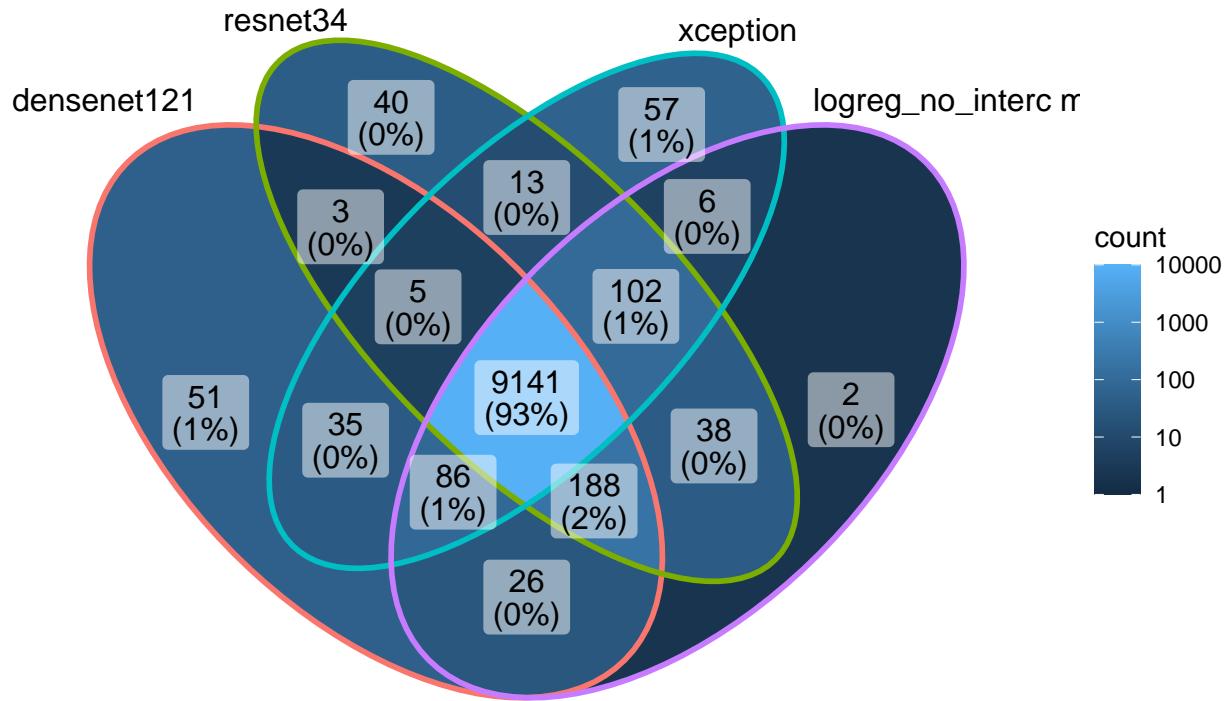


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tt – replication 6

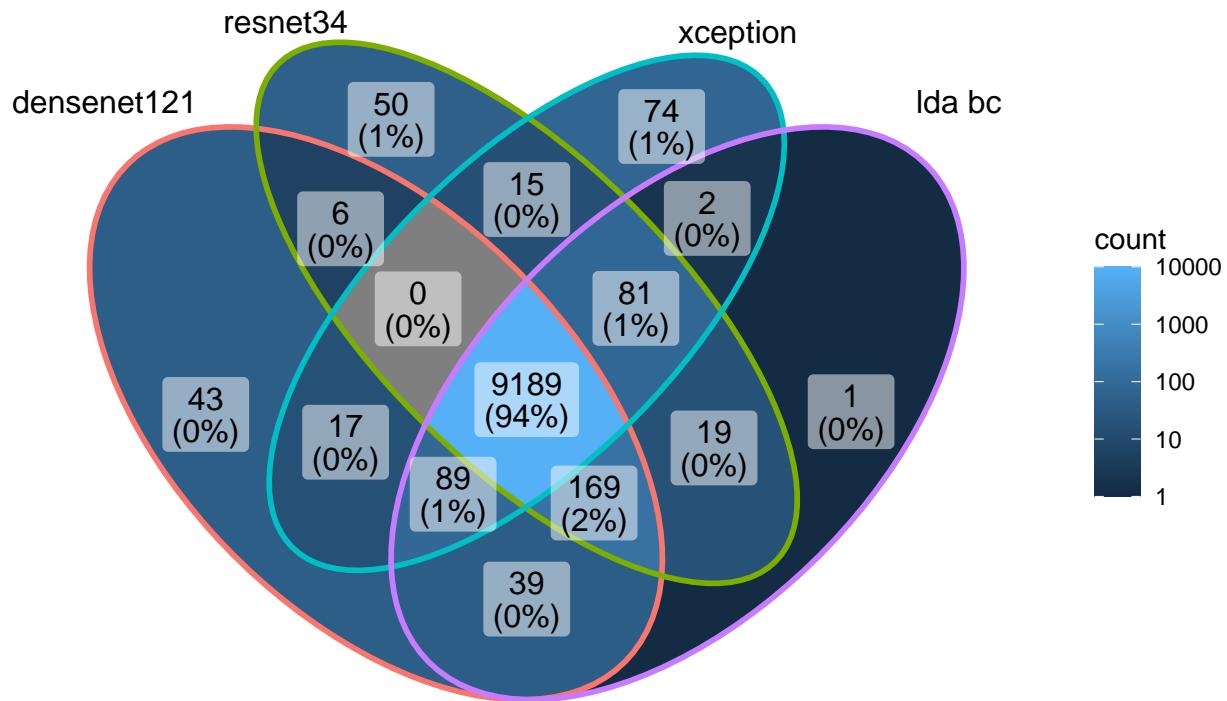


vt – replication 6

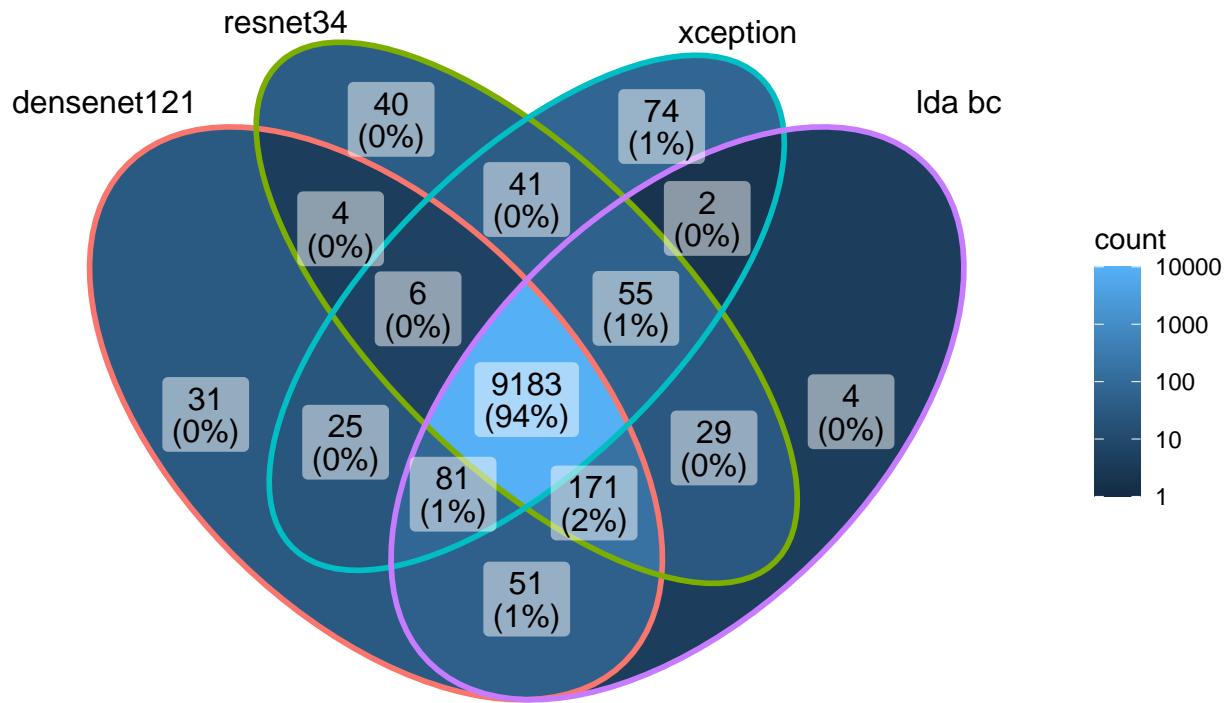


Warning: Transformation introduced infinite values in discrete y-axis

tt – replication 7

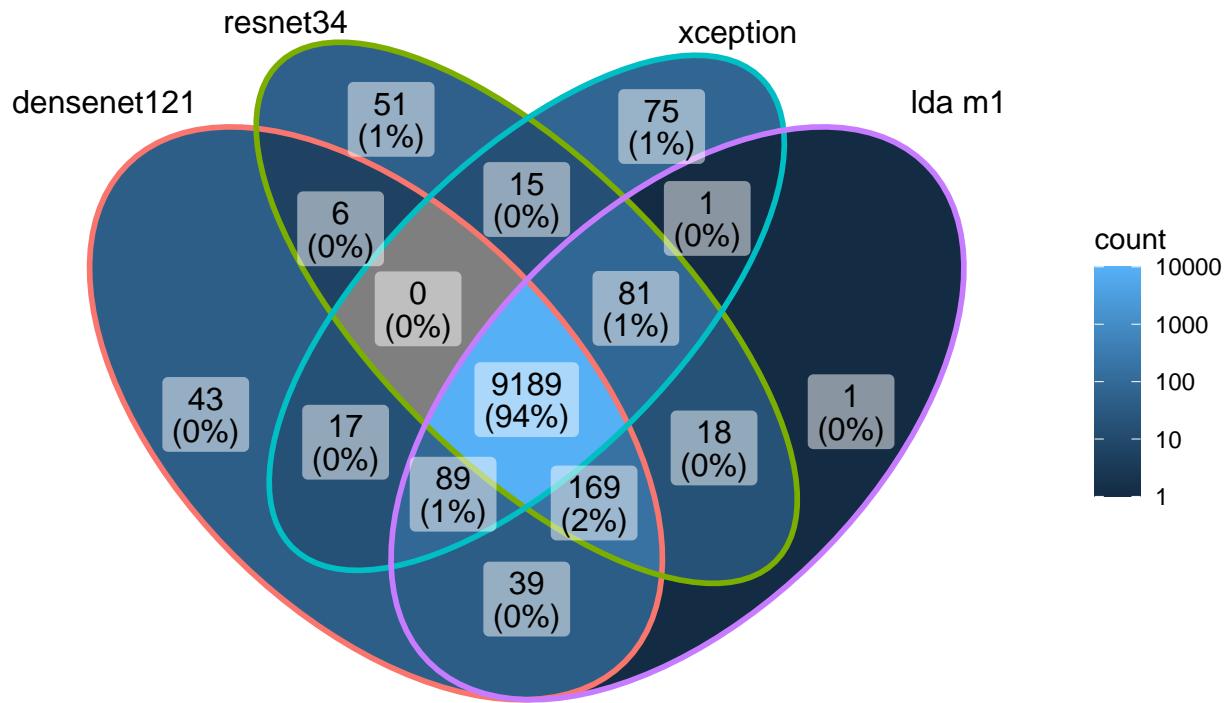


vt – replication 7

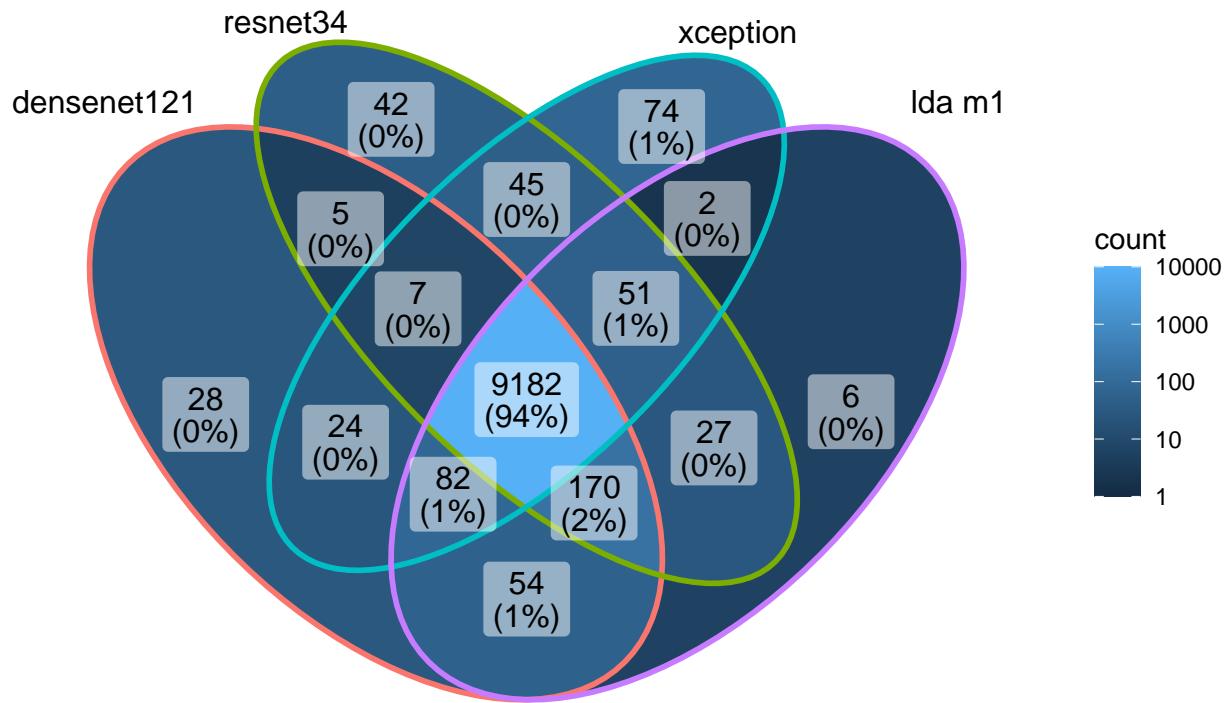


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tt – replication 7

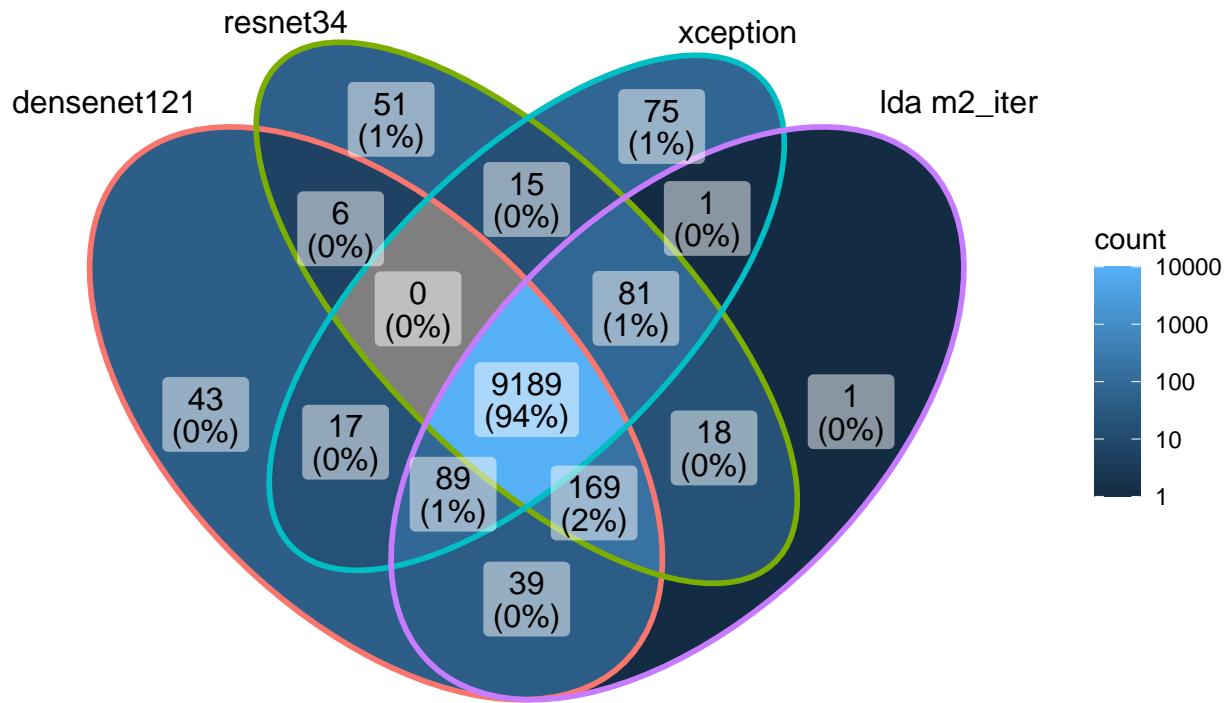


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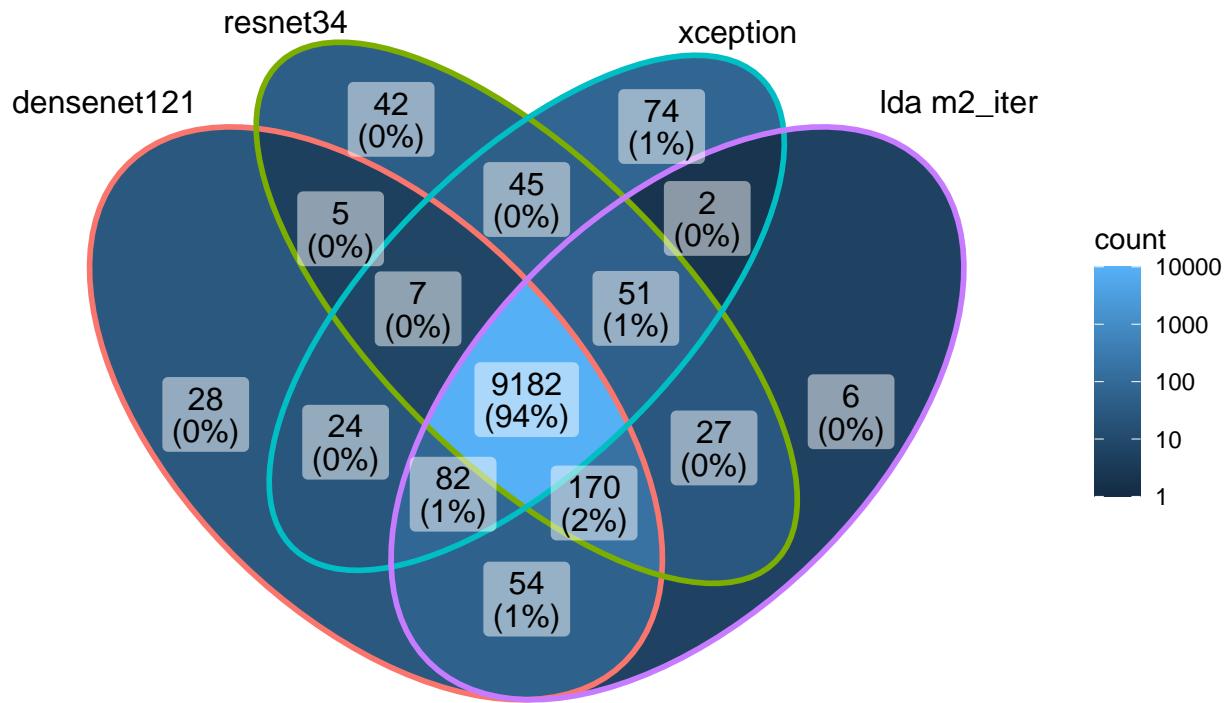


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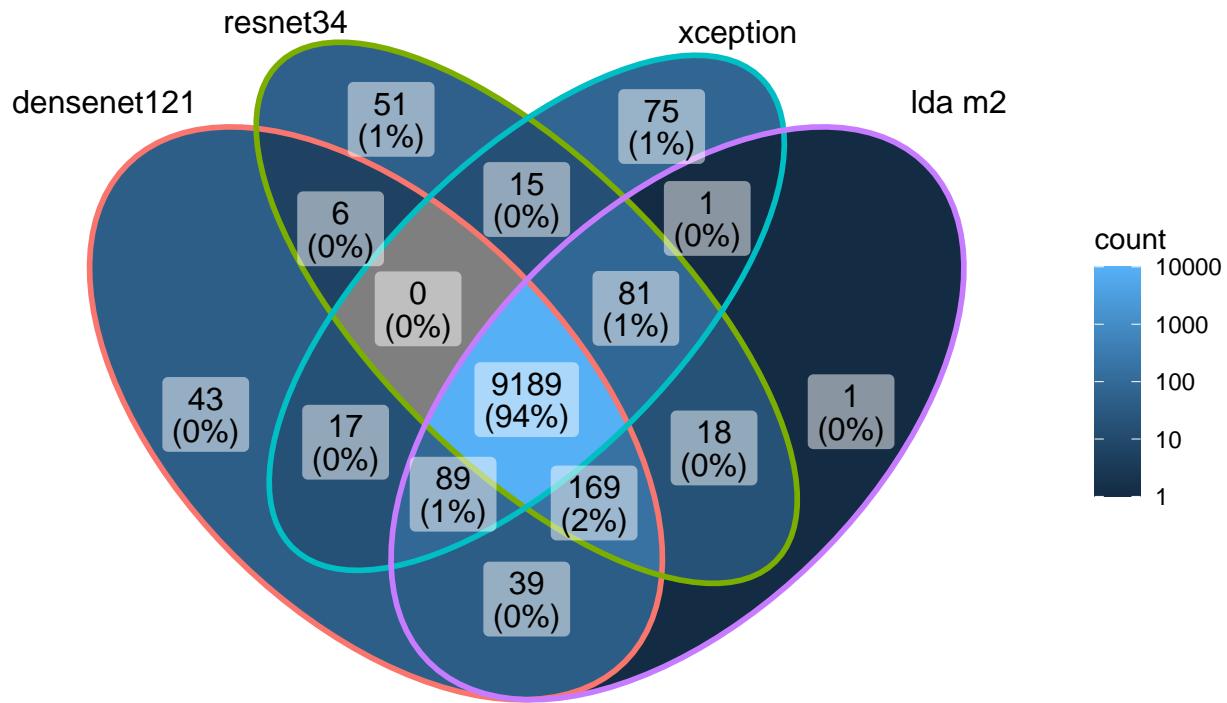


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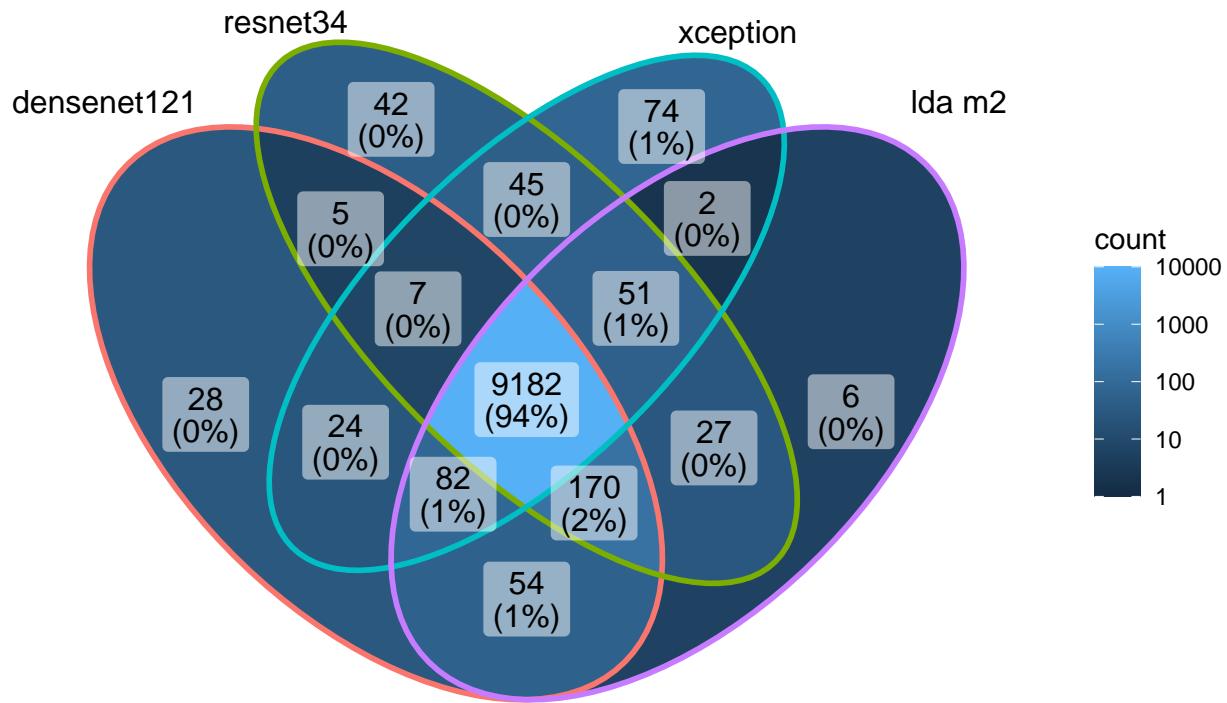


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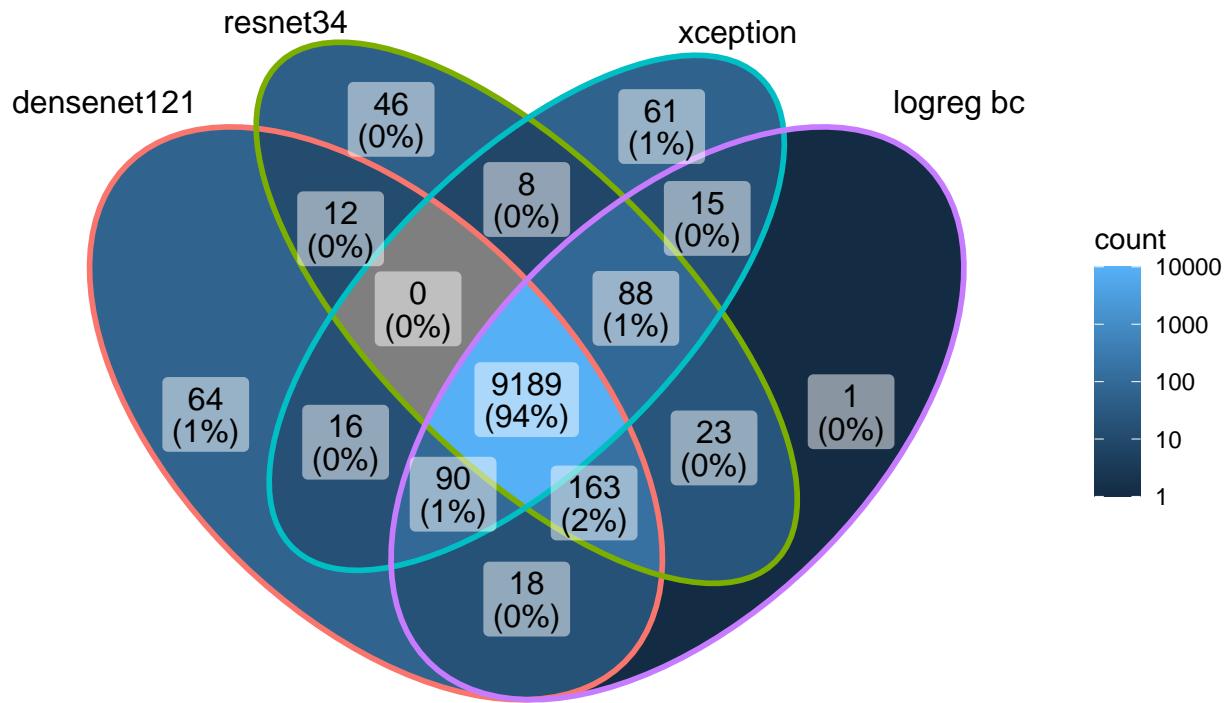


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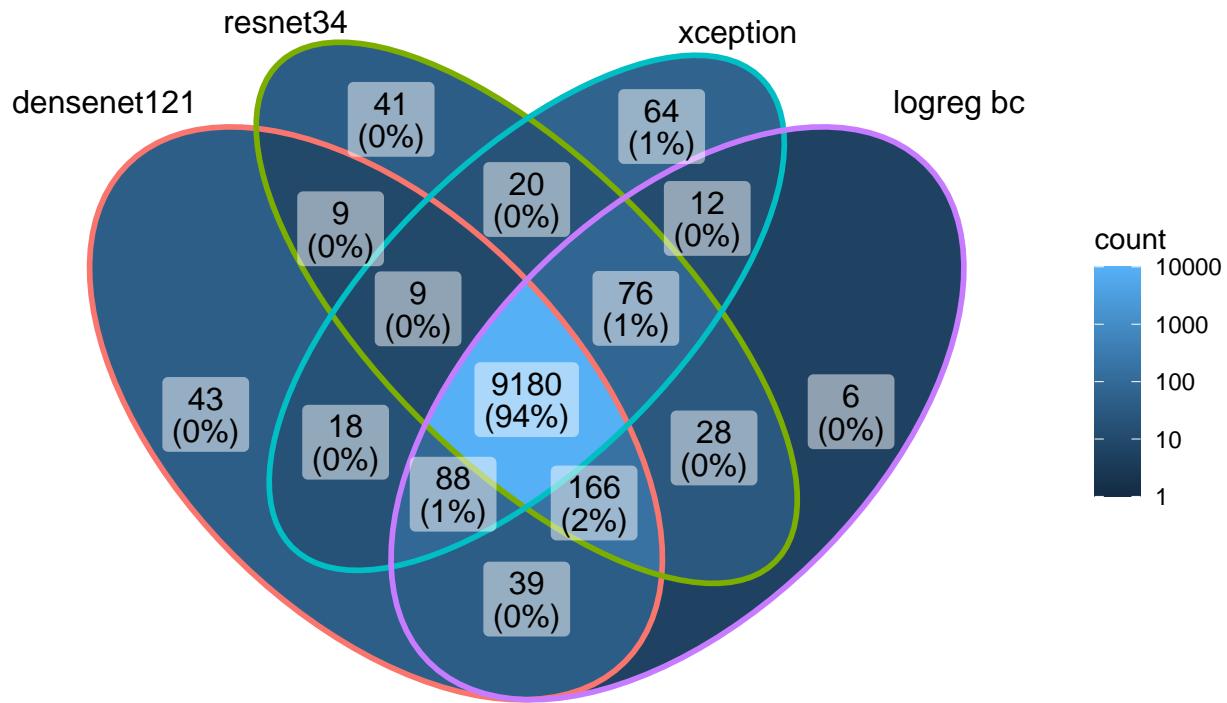


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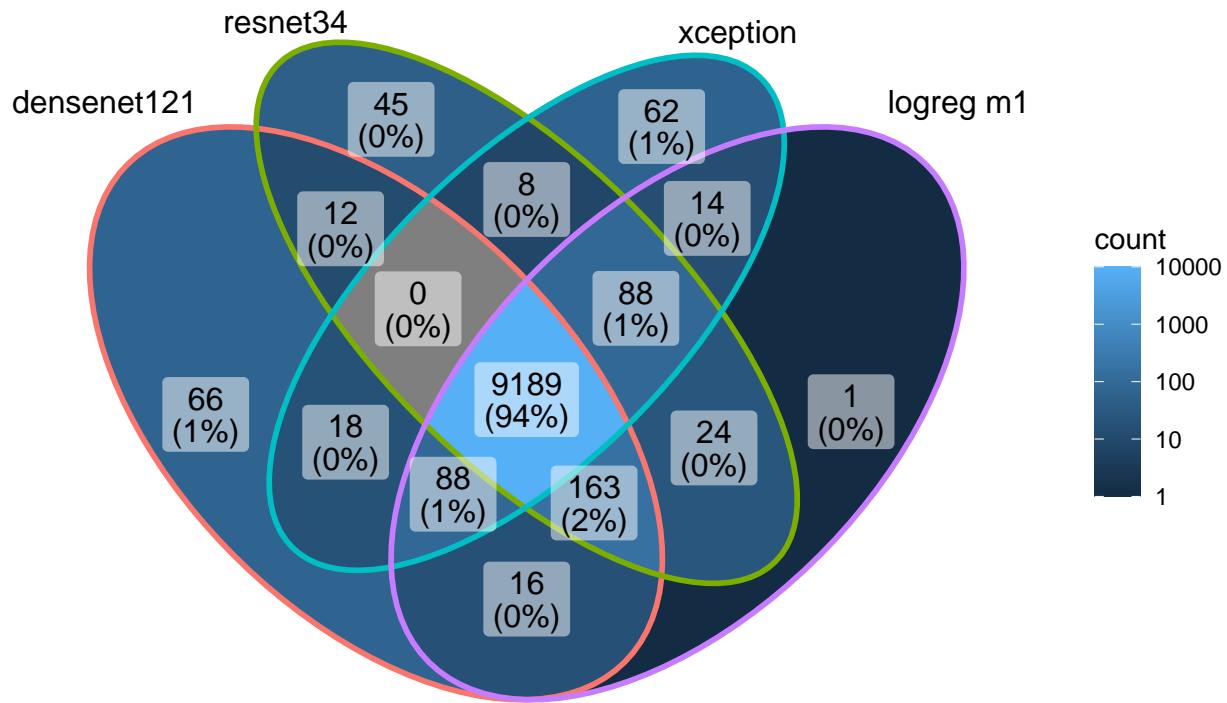


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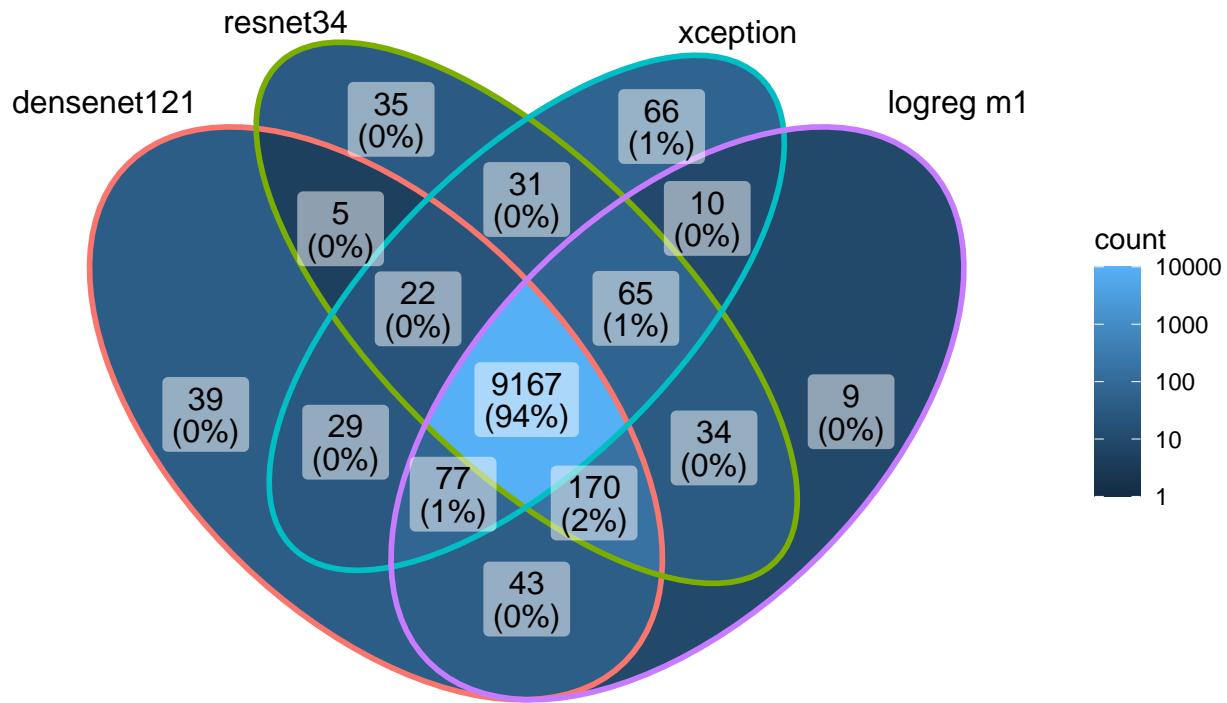


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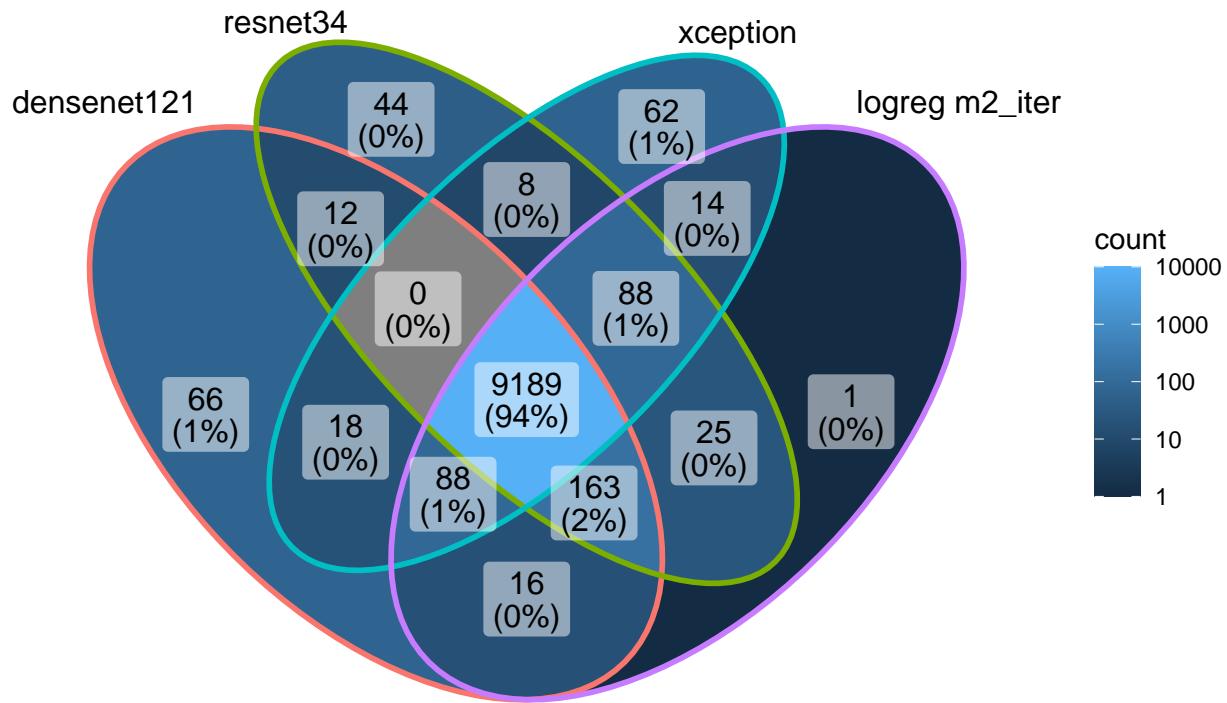


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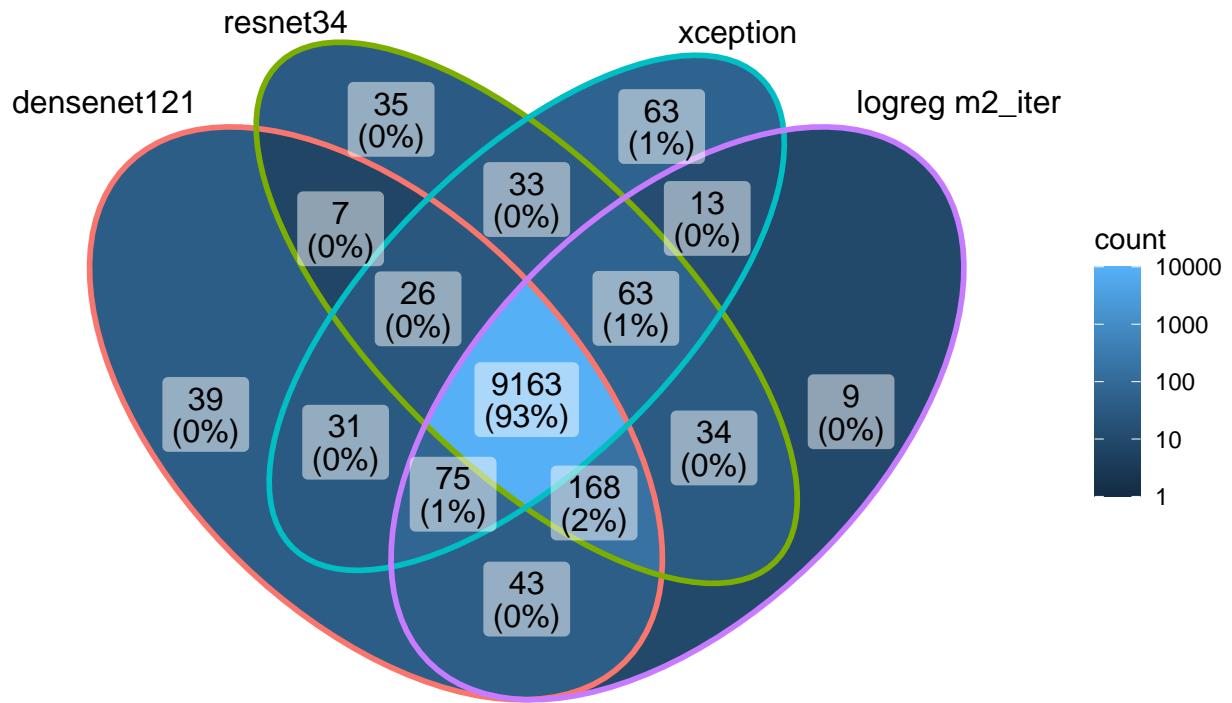


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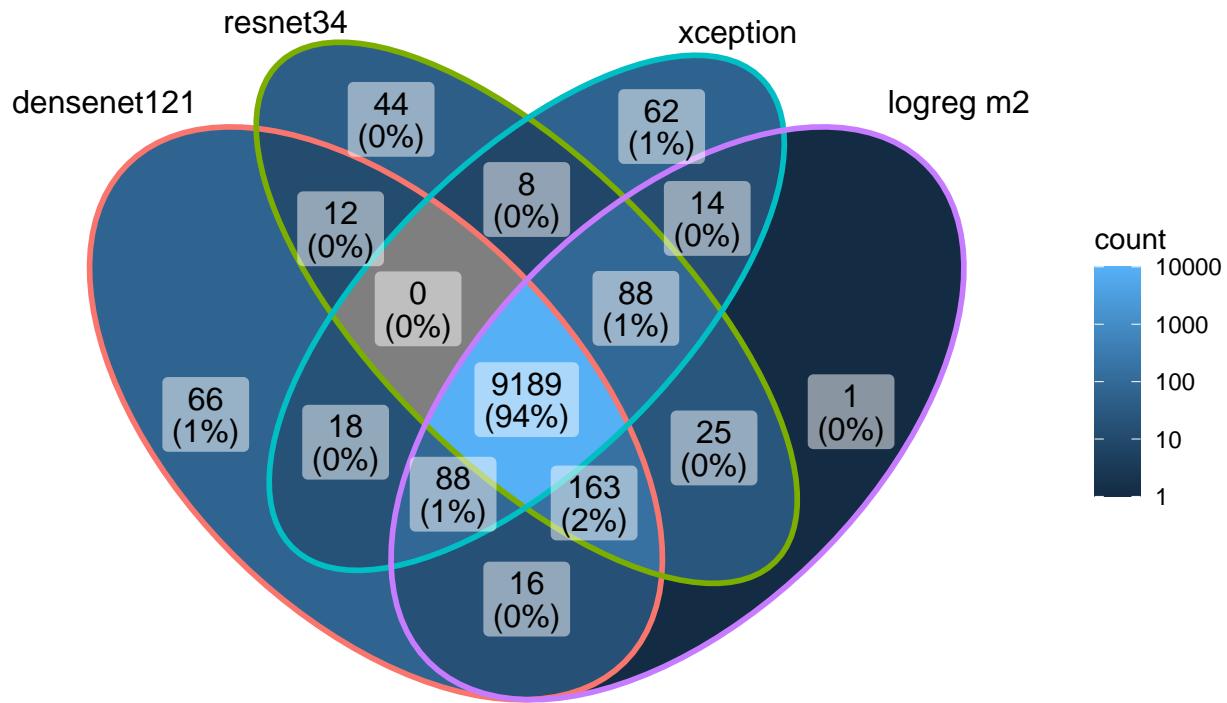


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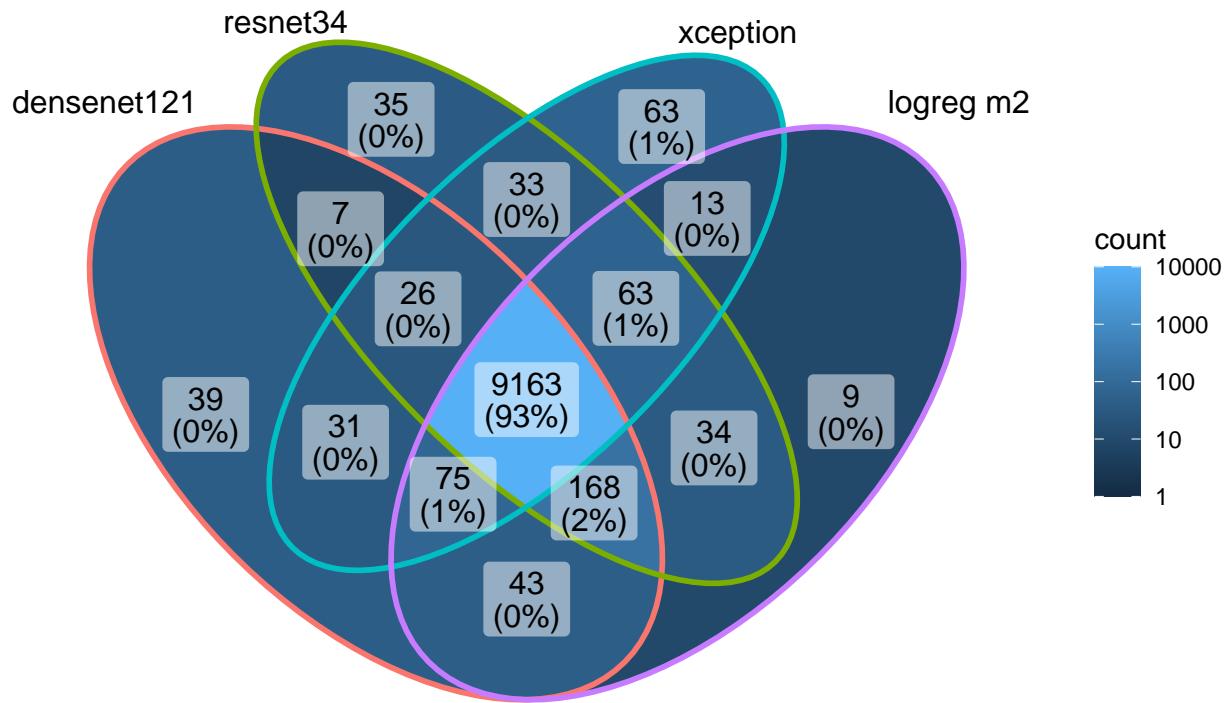


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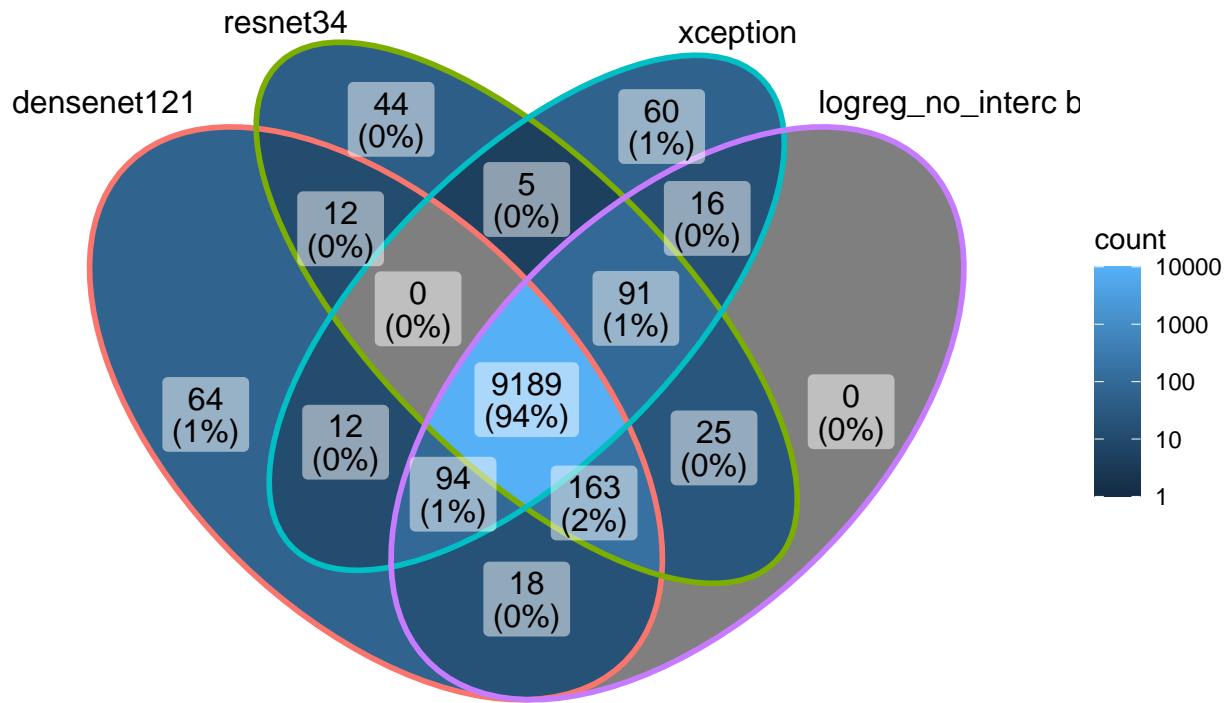


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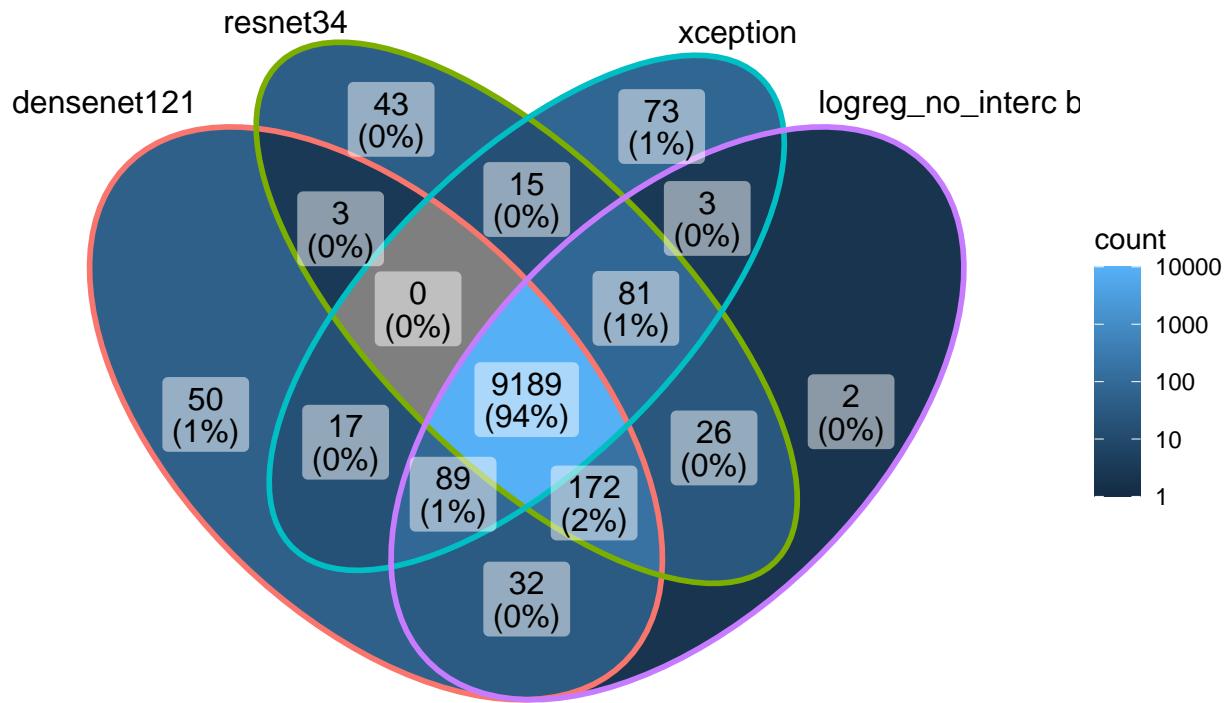
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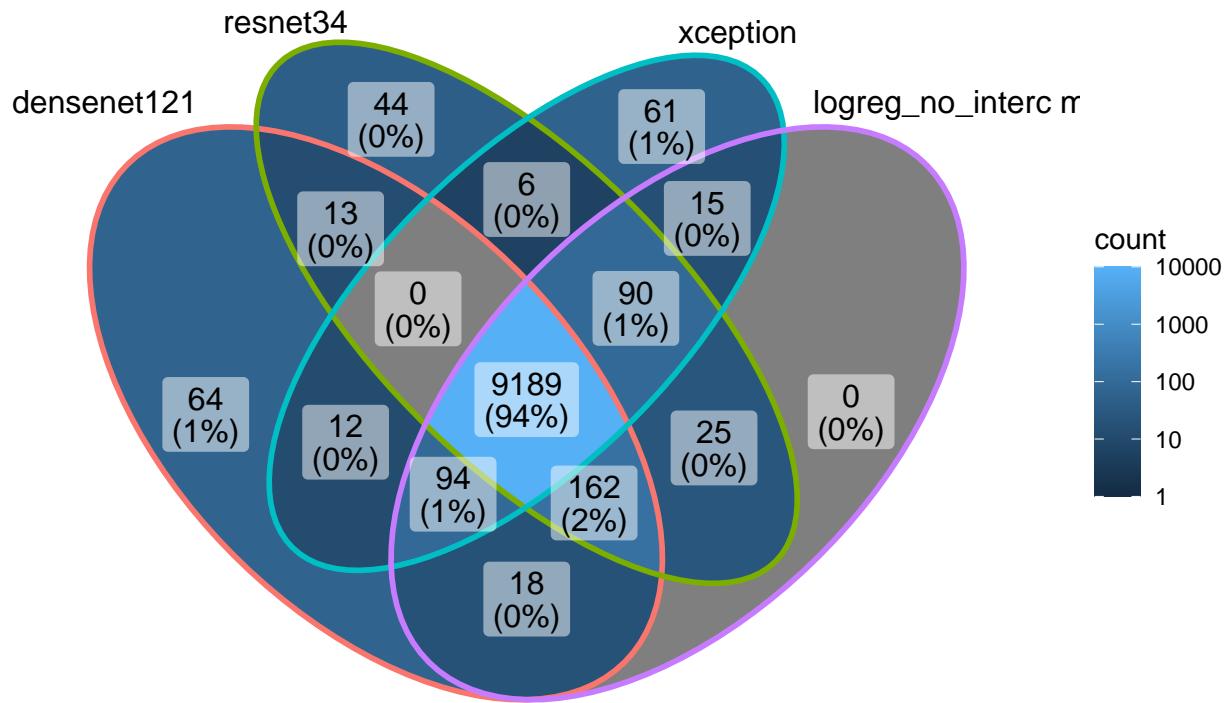
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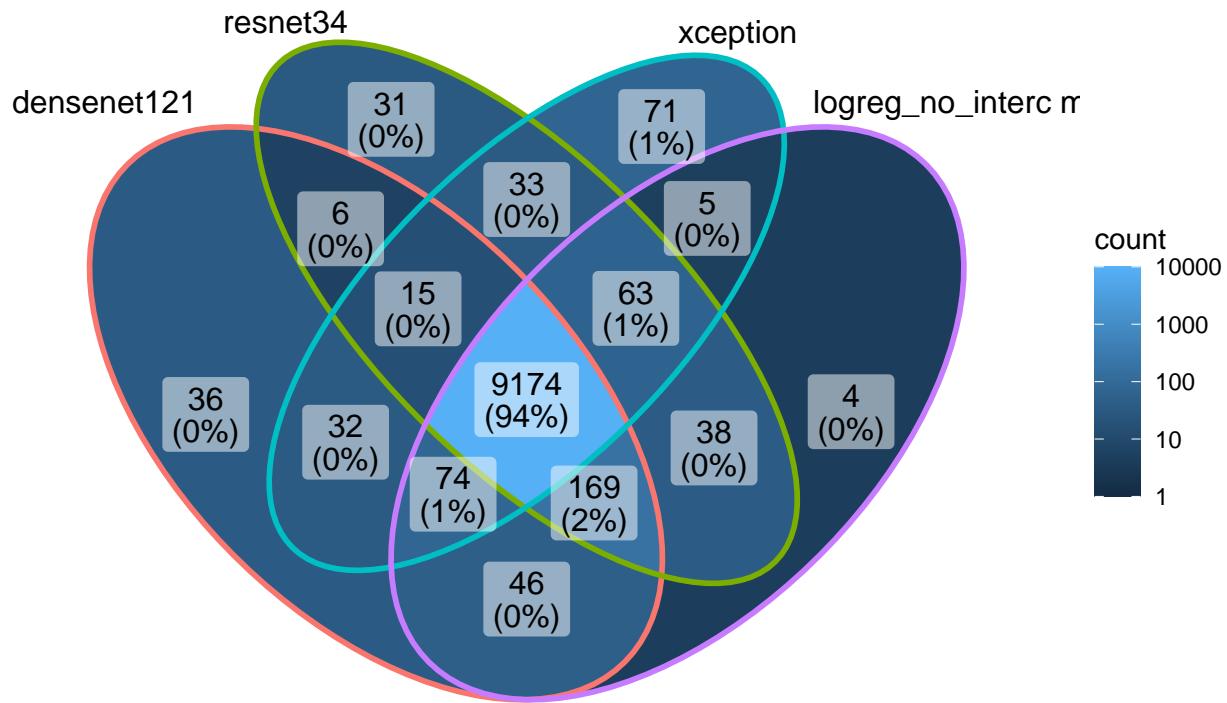


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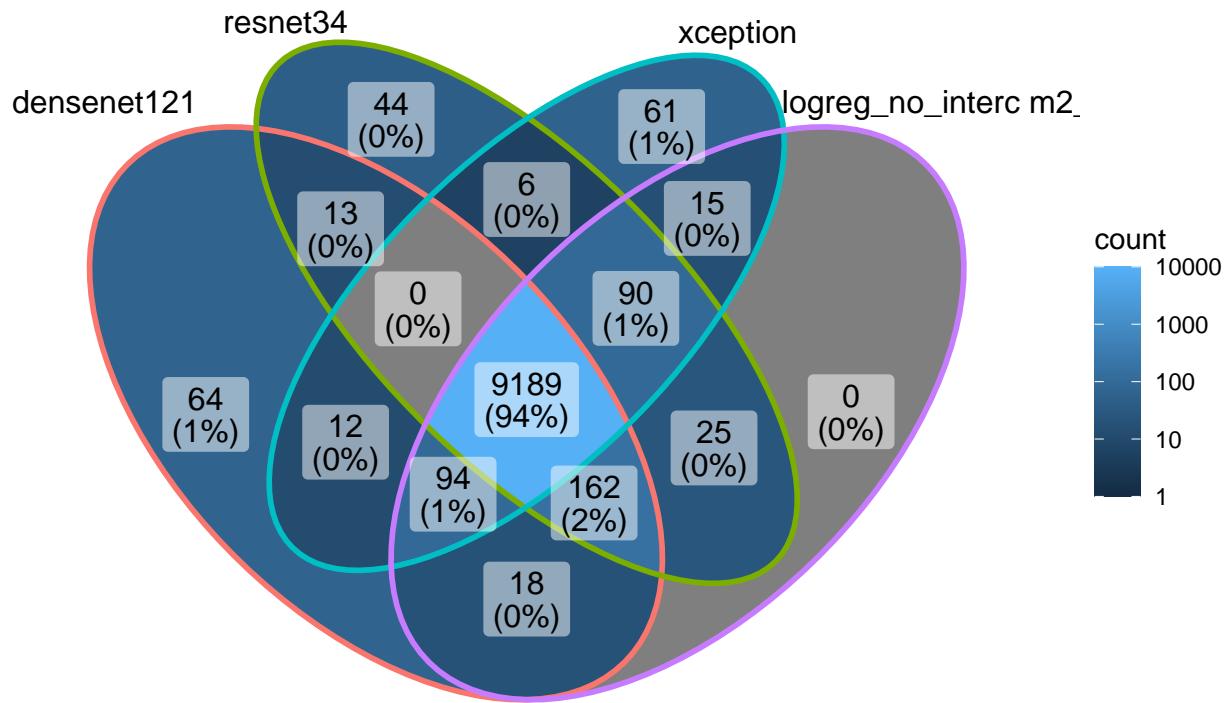


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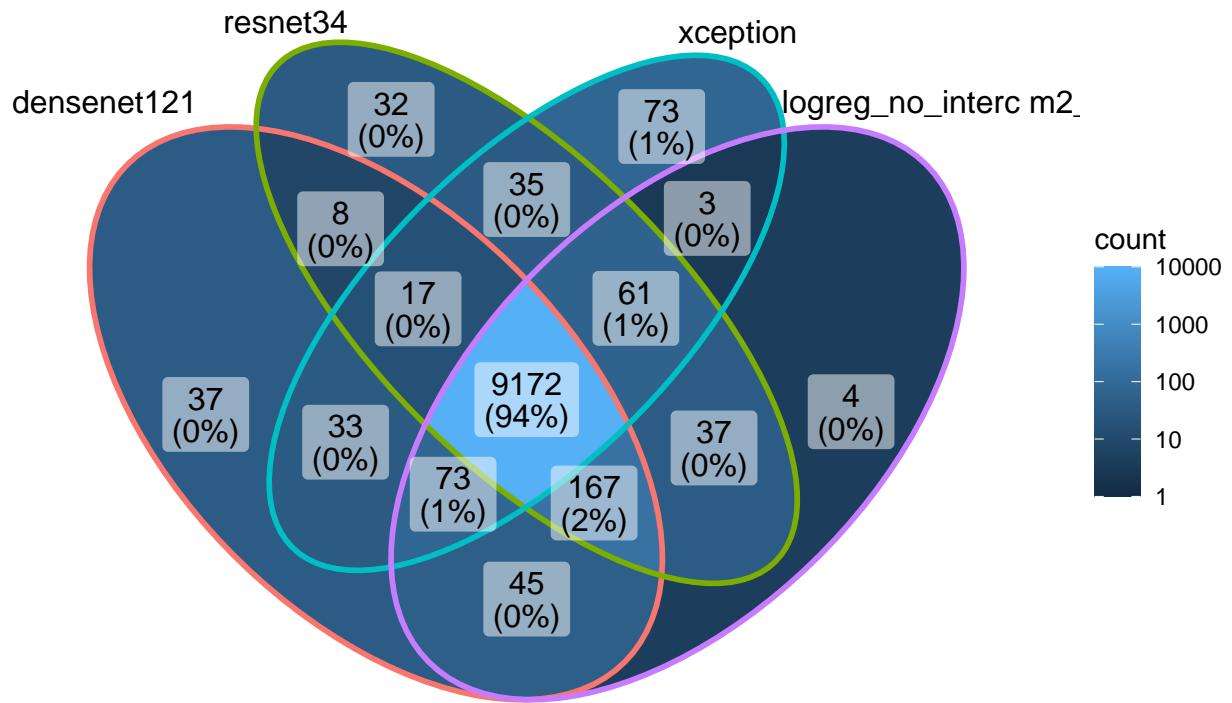


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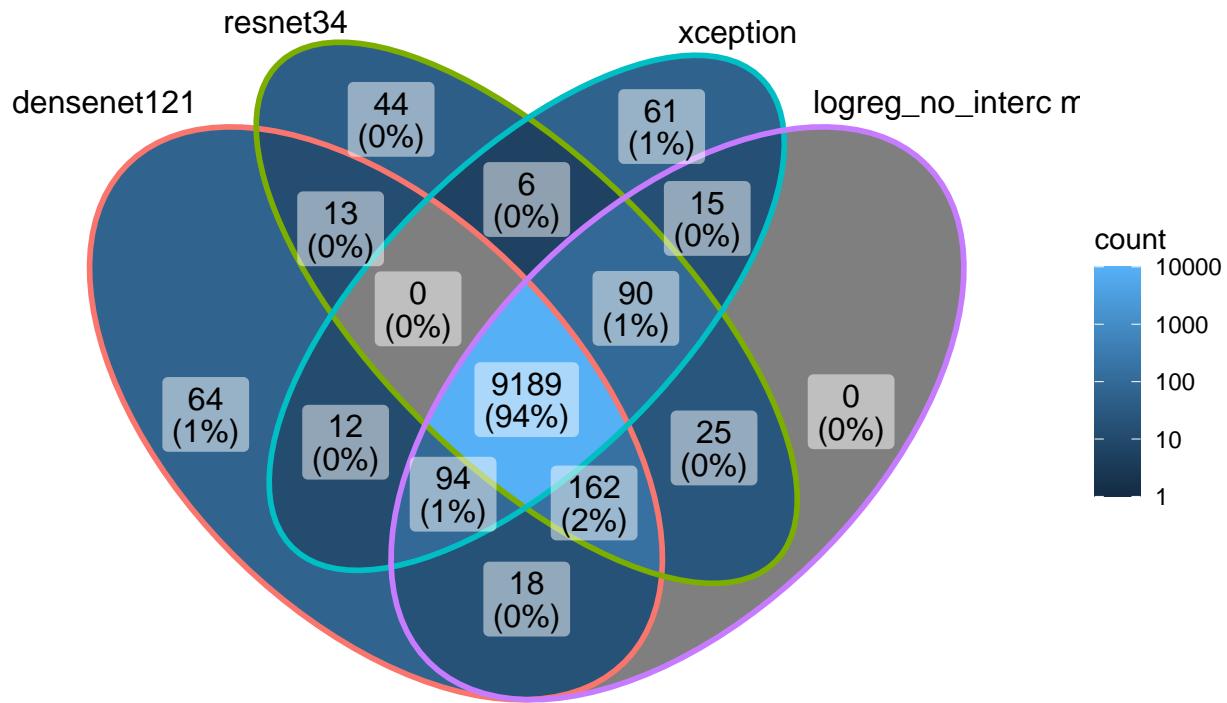


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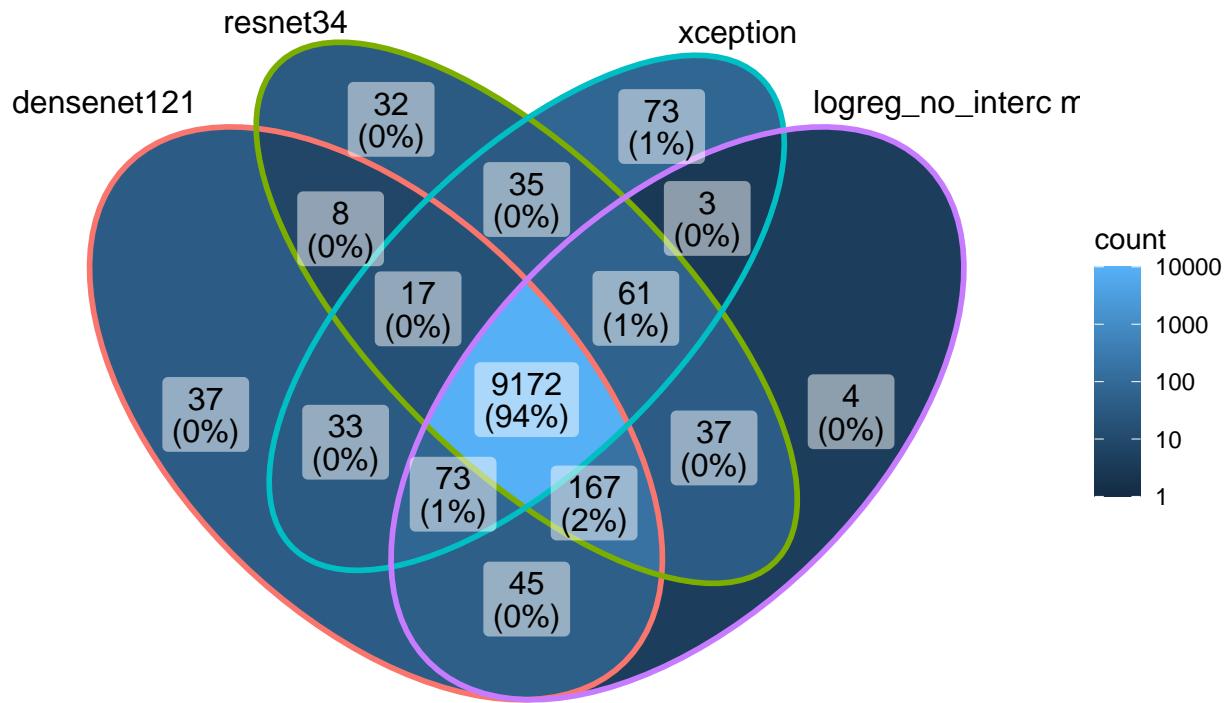


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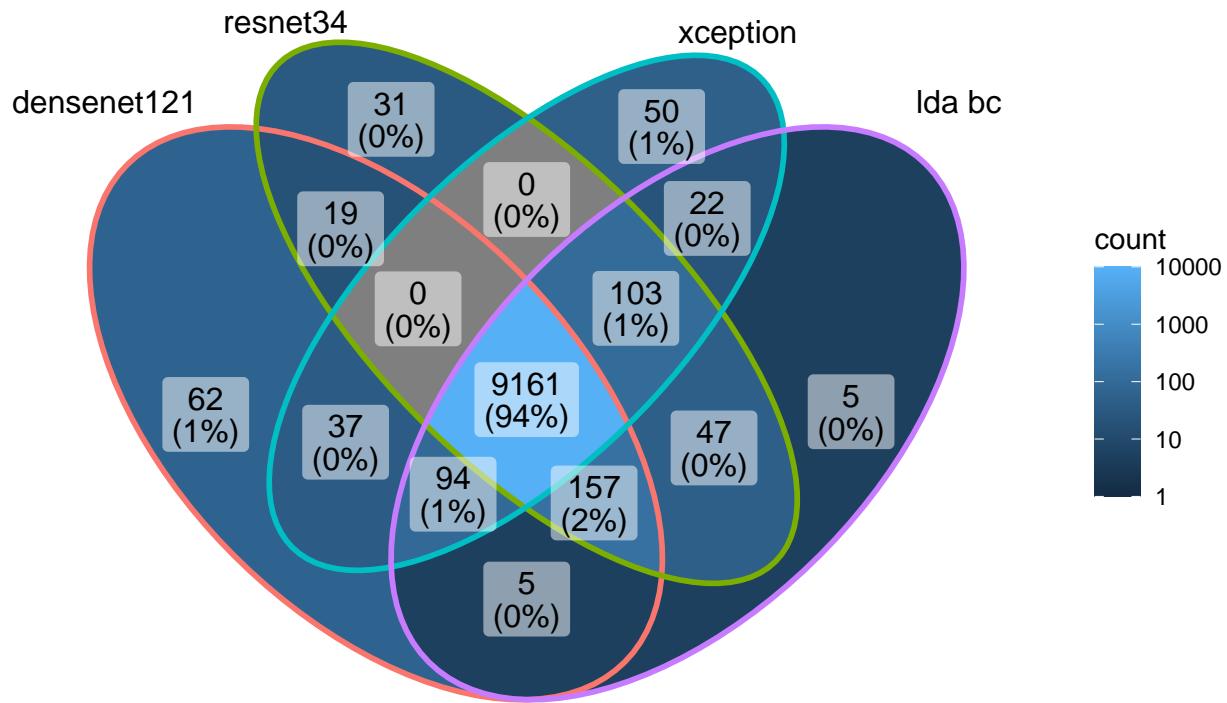


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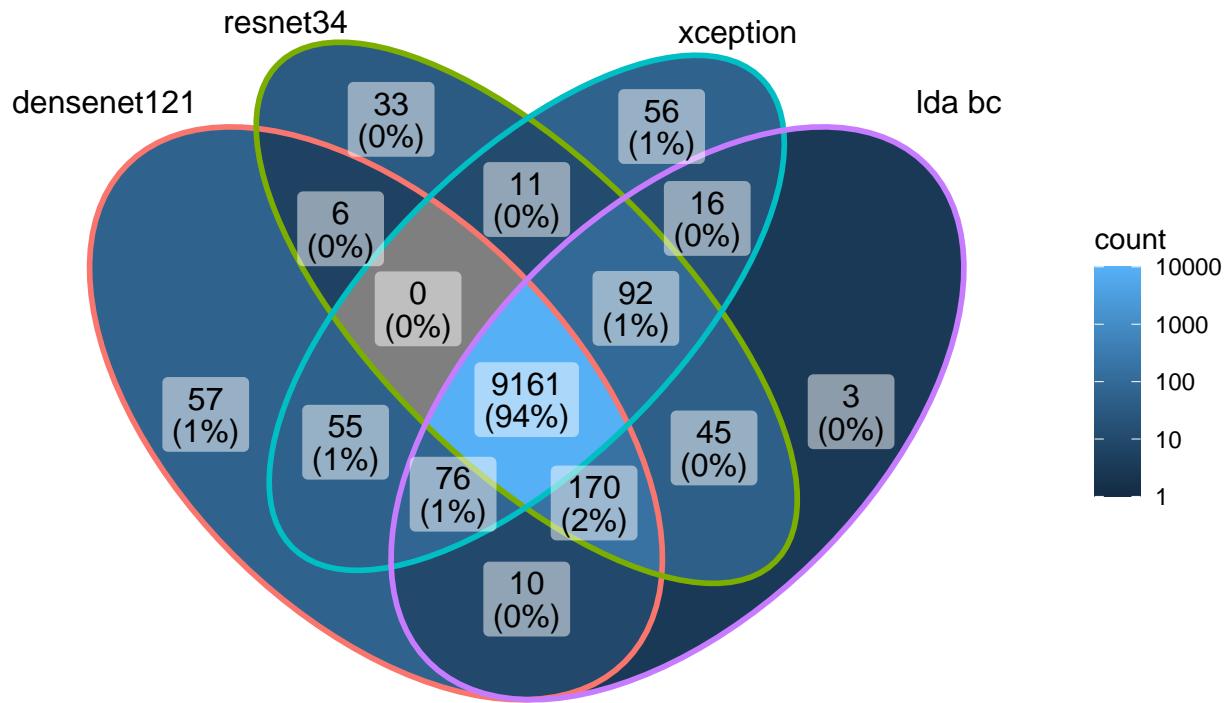
Warning: Transformation introduced infinite values in discrete y-axis

tt – replication 8



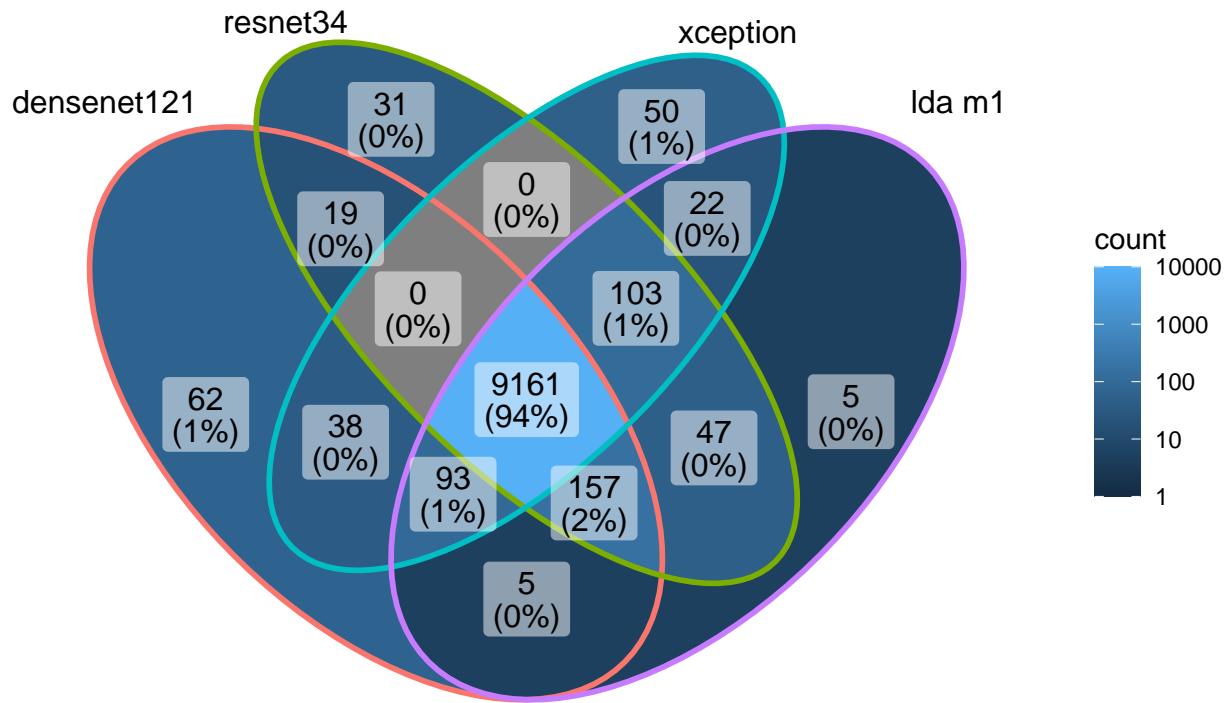
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vt – replication 8



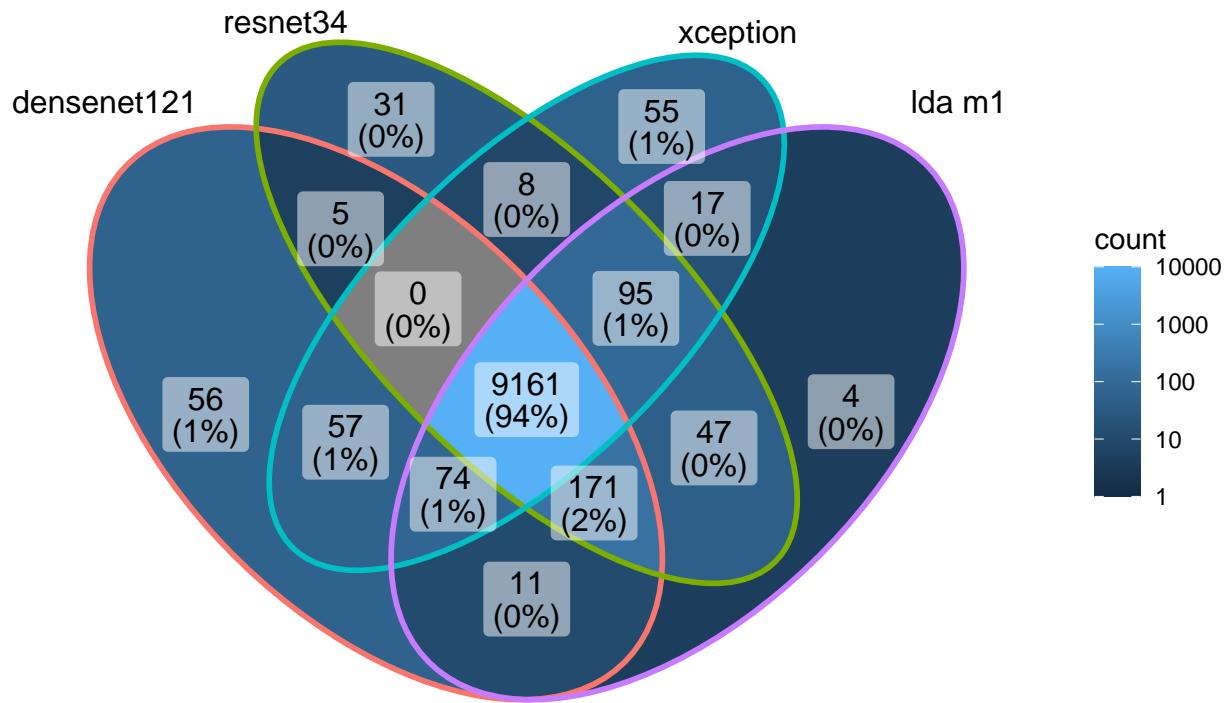
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tt – replication 8



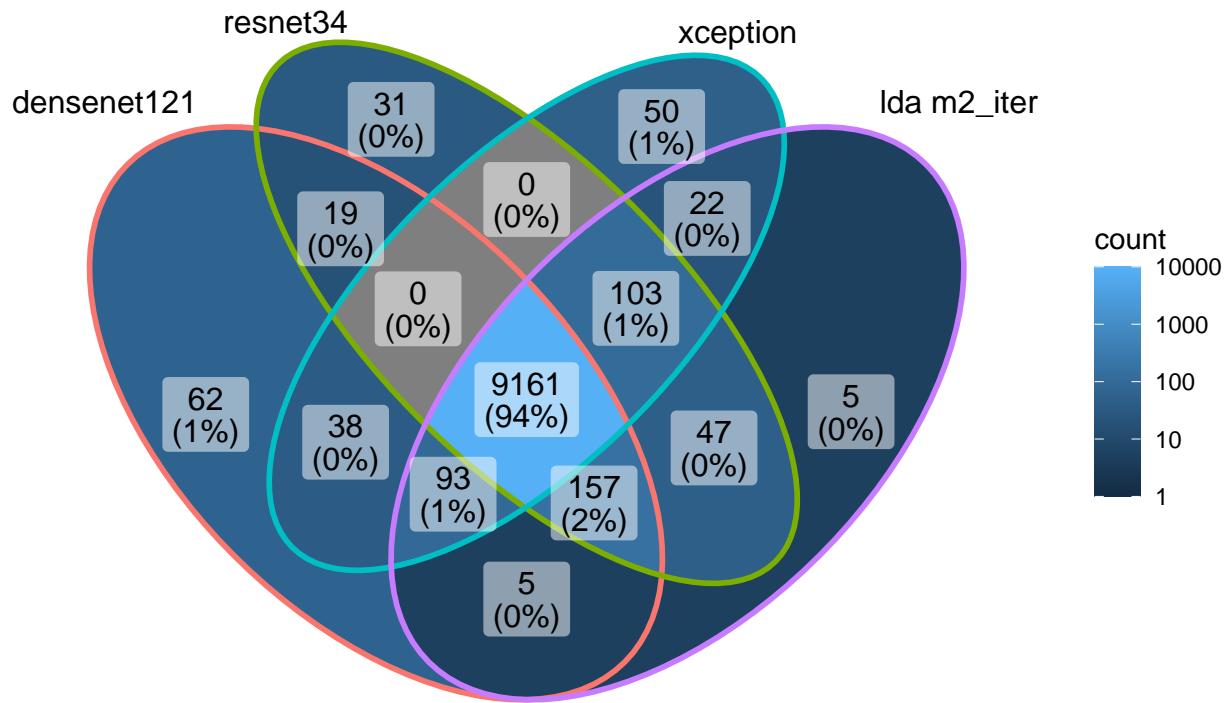
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vt – replication 8



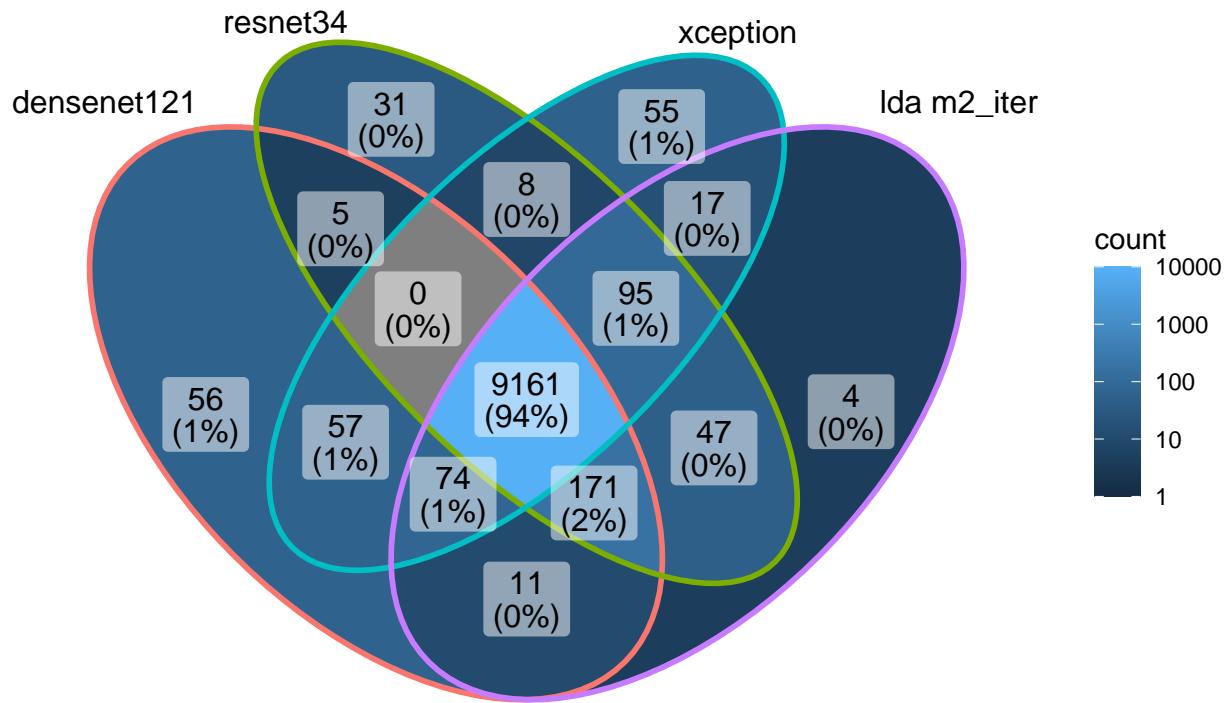
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tt – replication 8



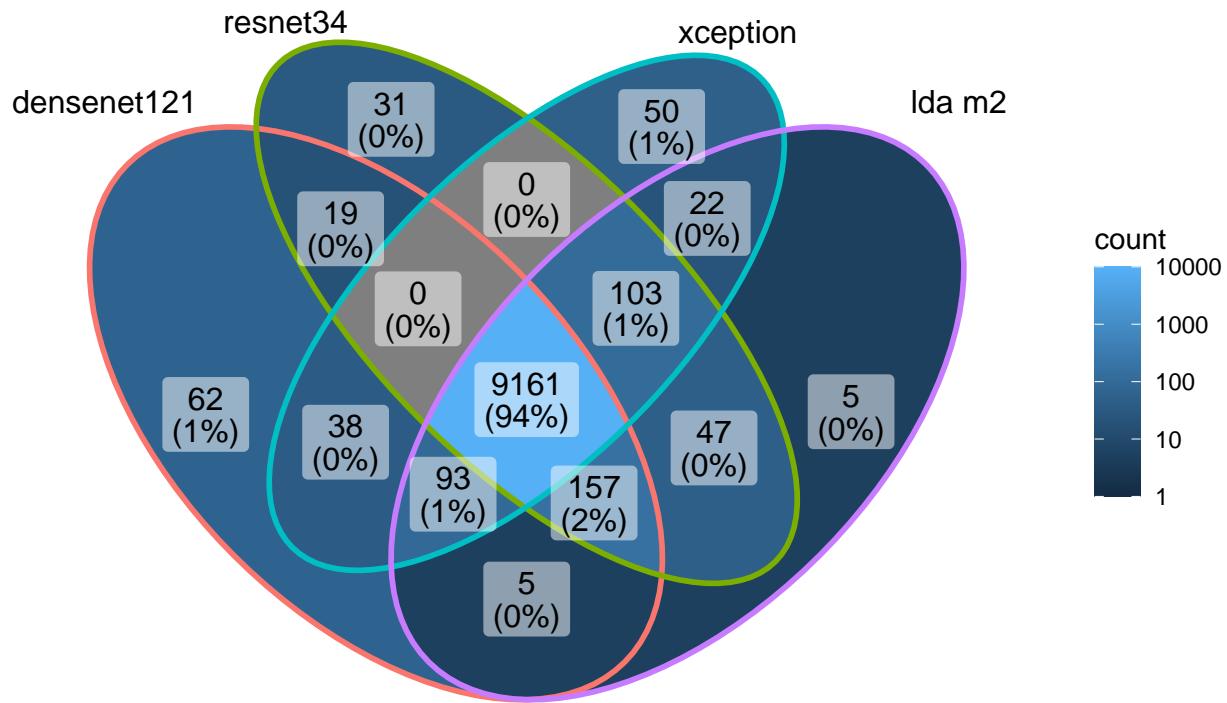
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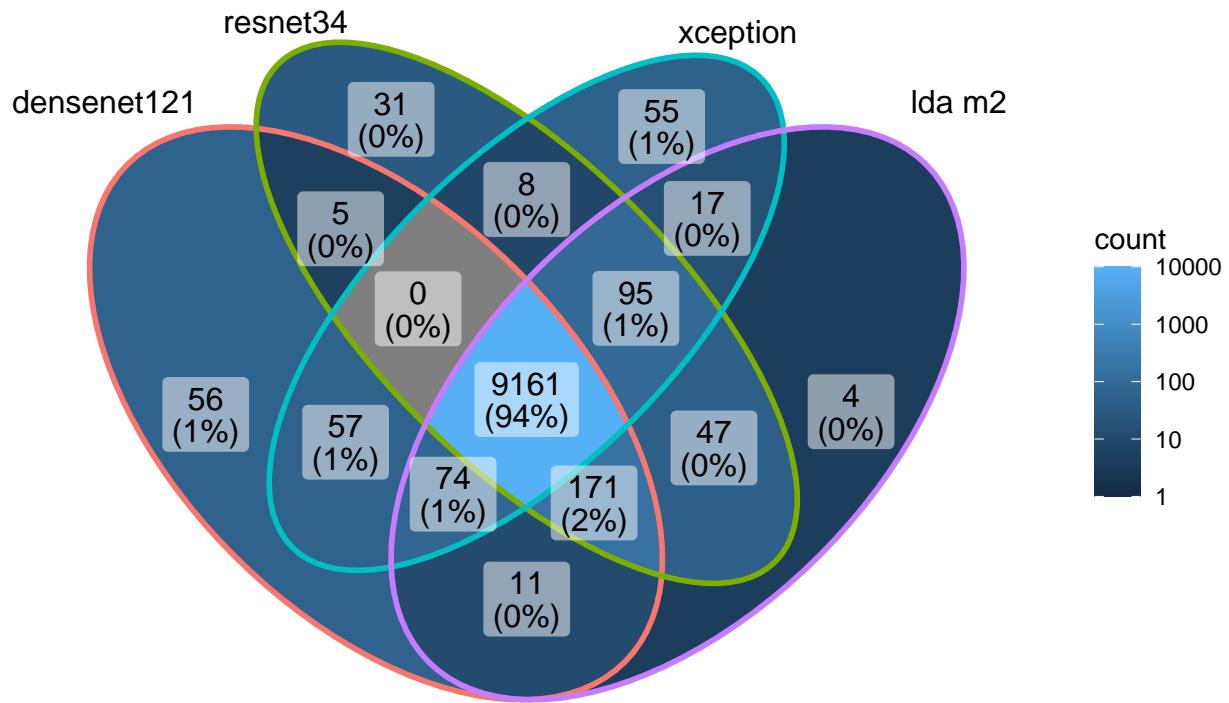
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tt – replication 8



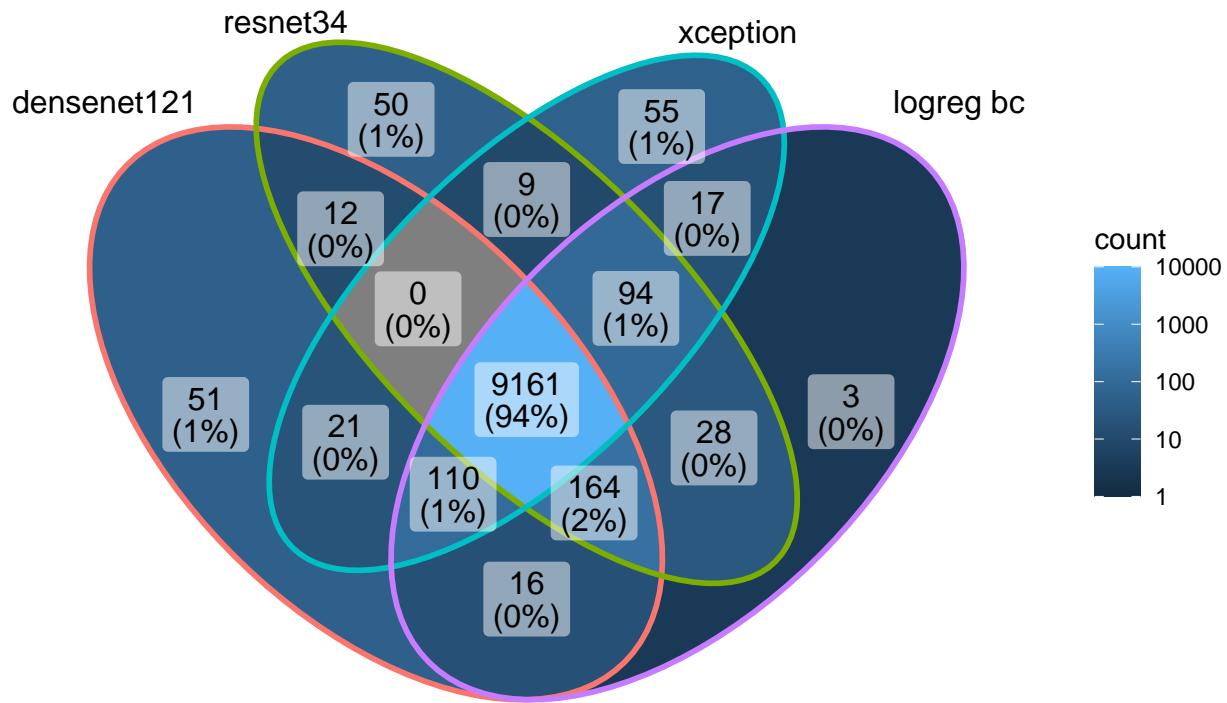
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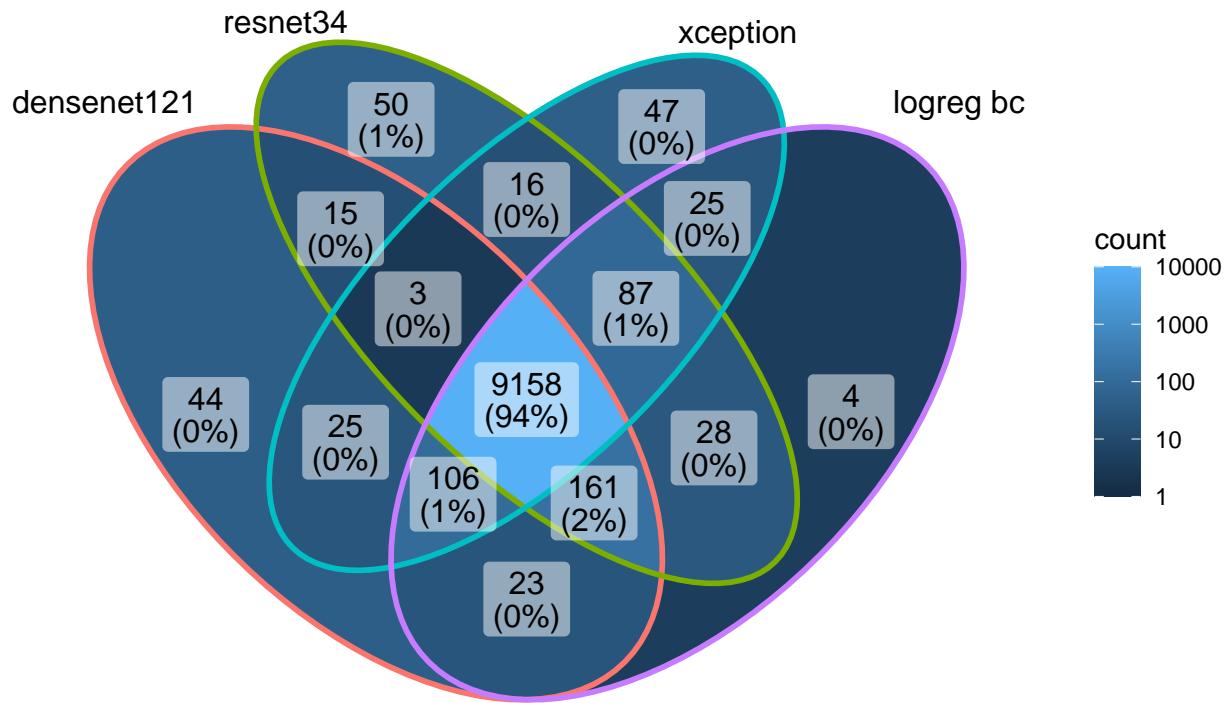


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tt – replication 8

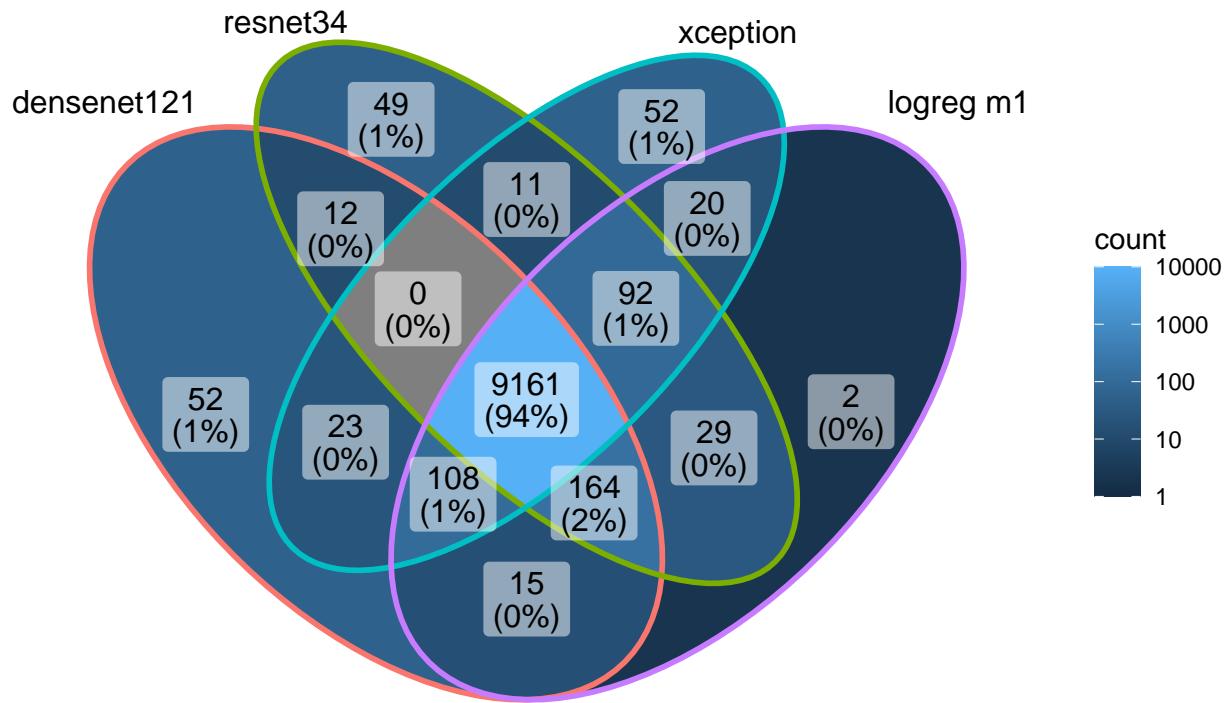


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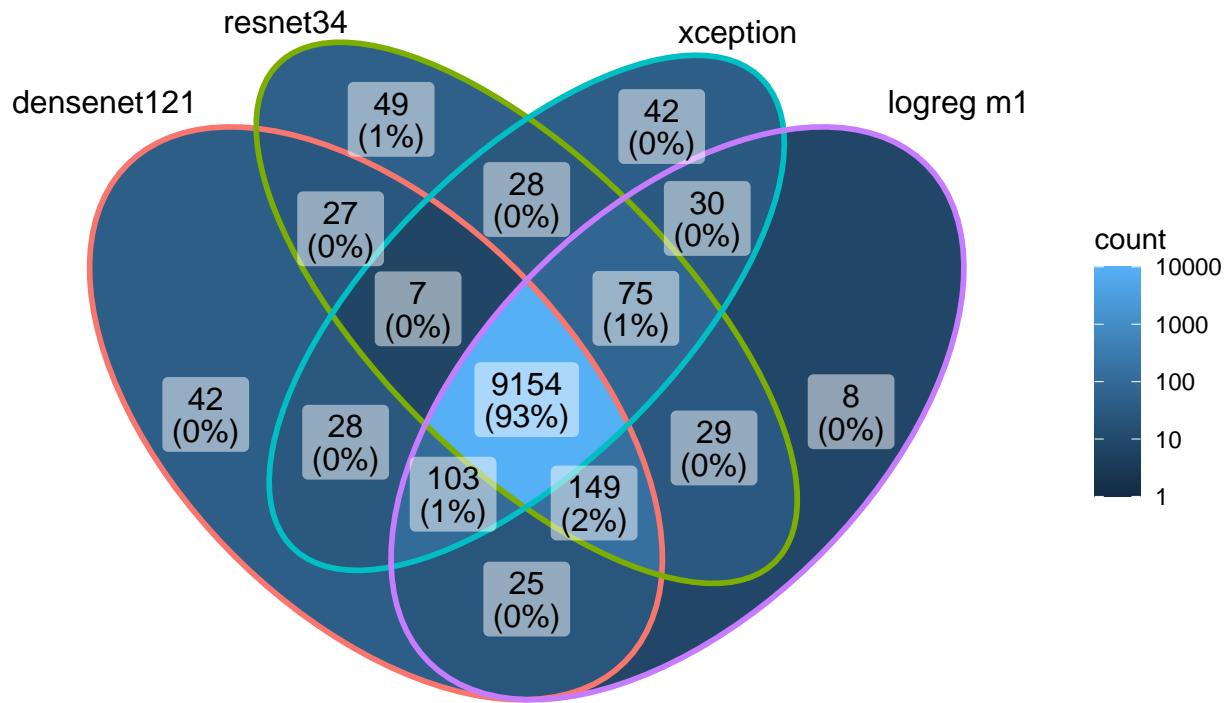


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tt – replication 8

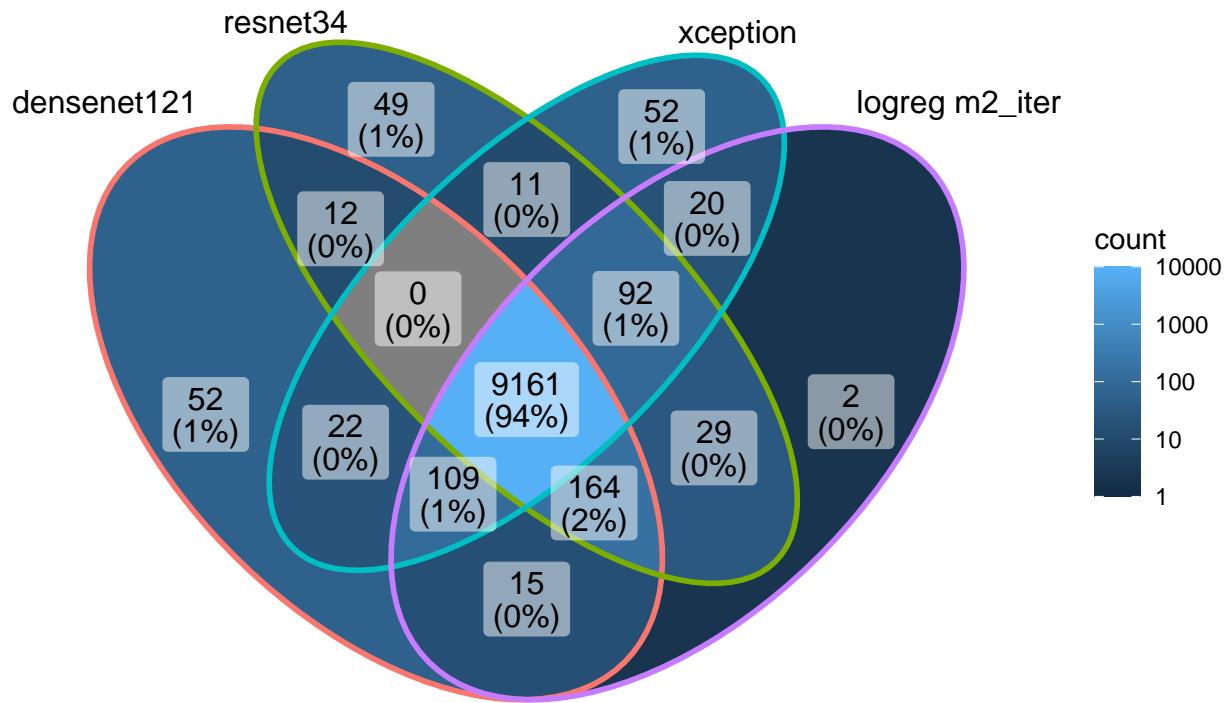


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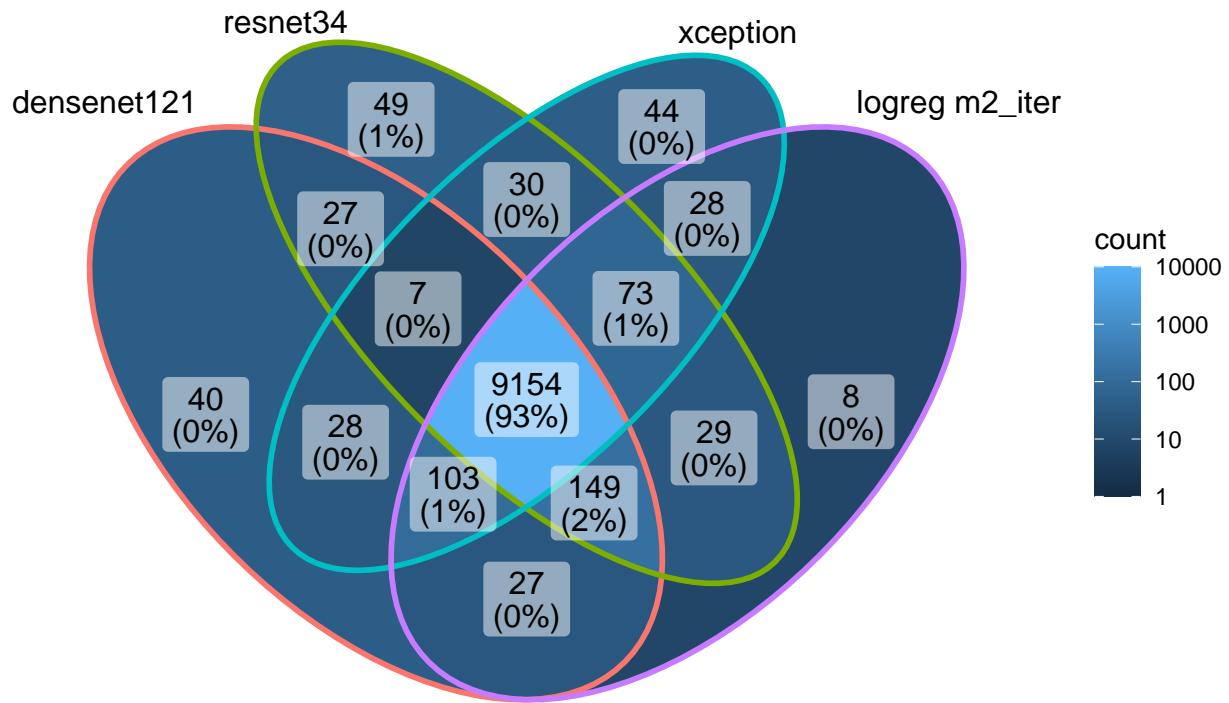


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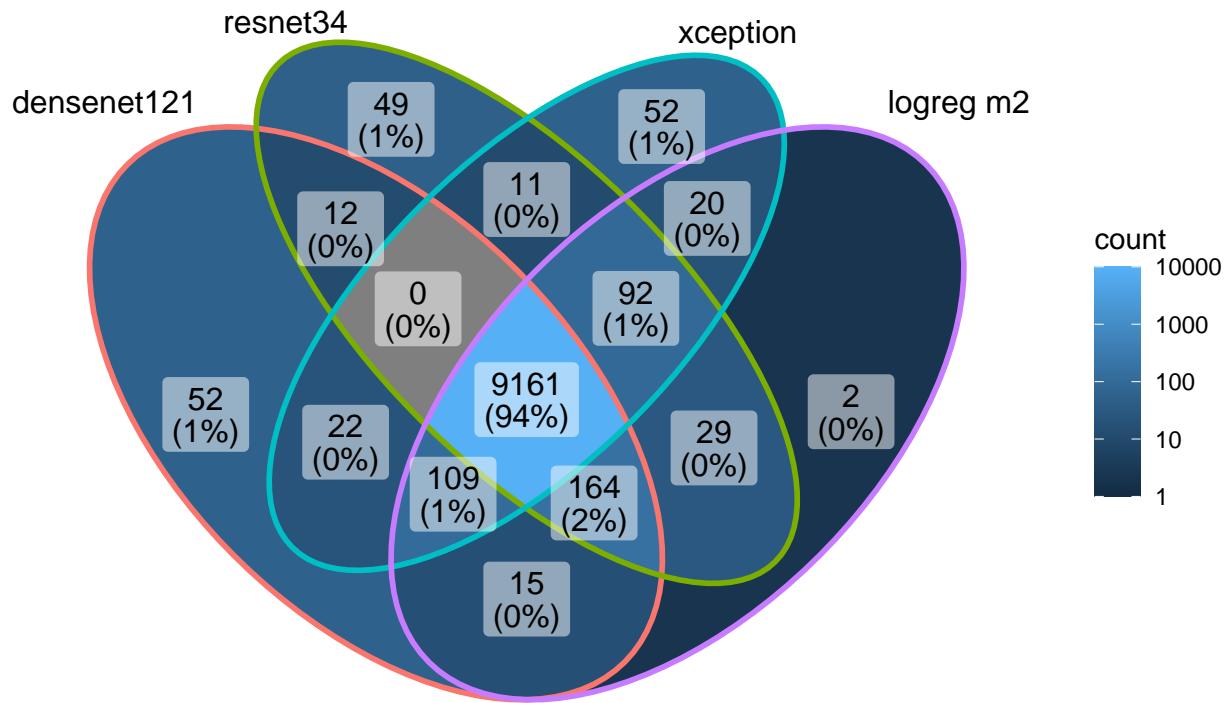


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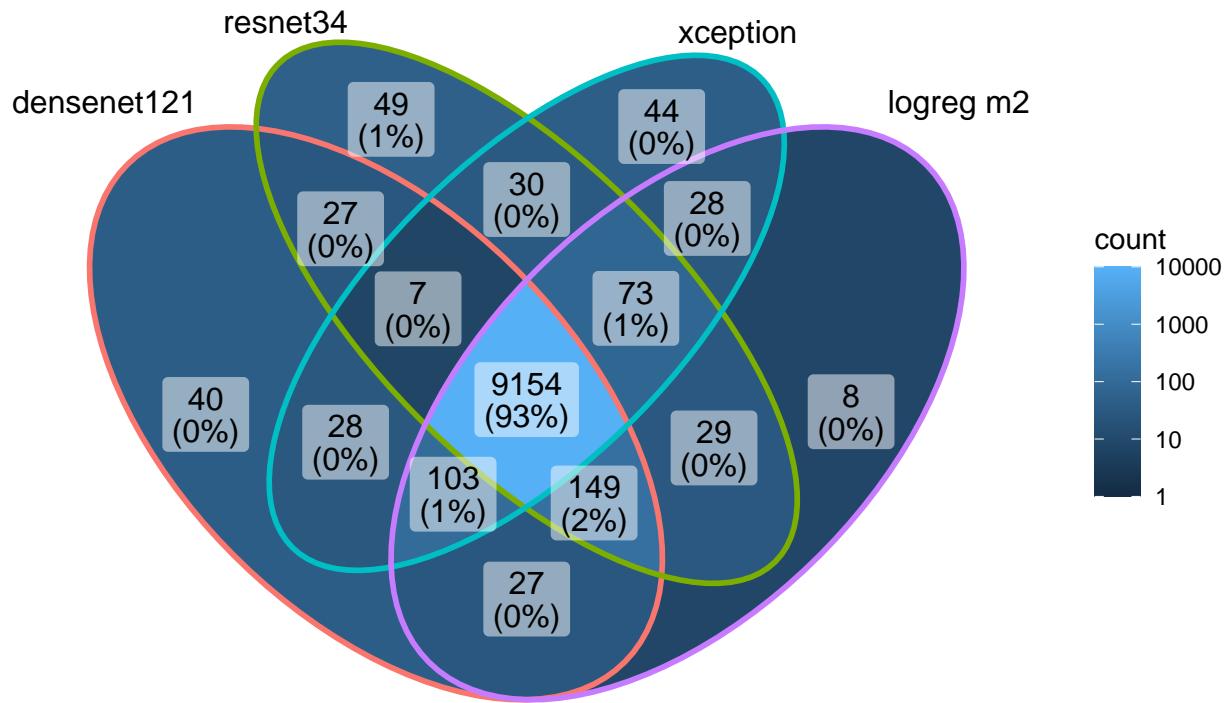


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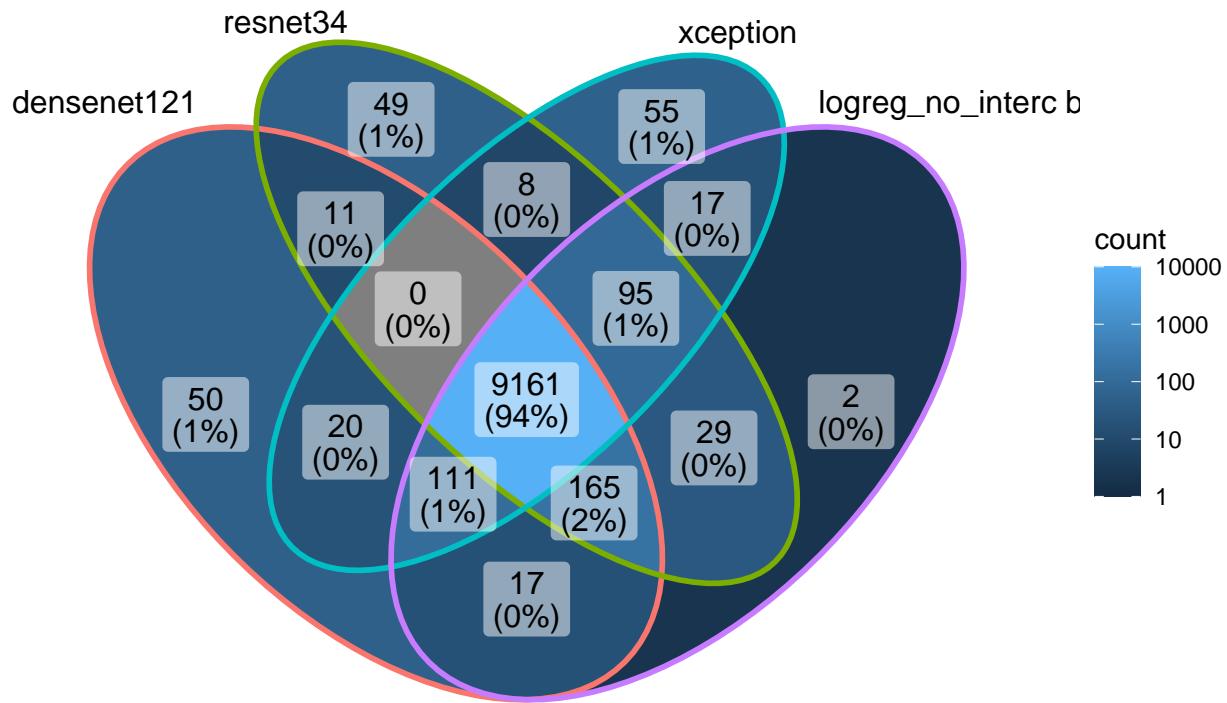


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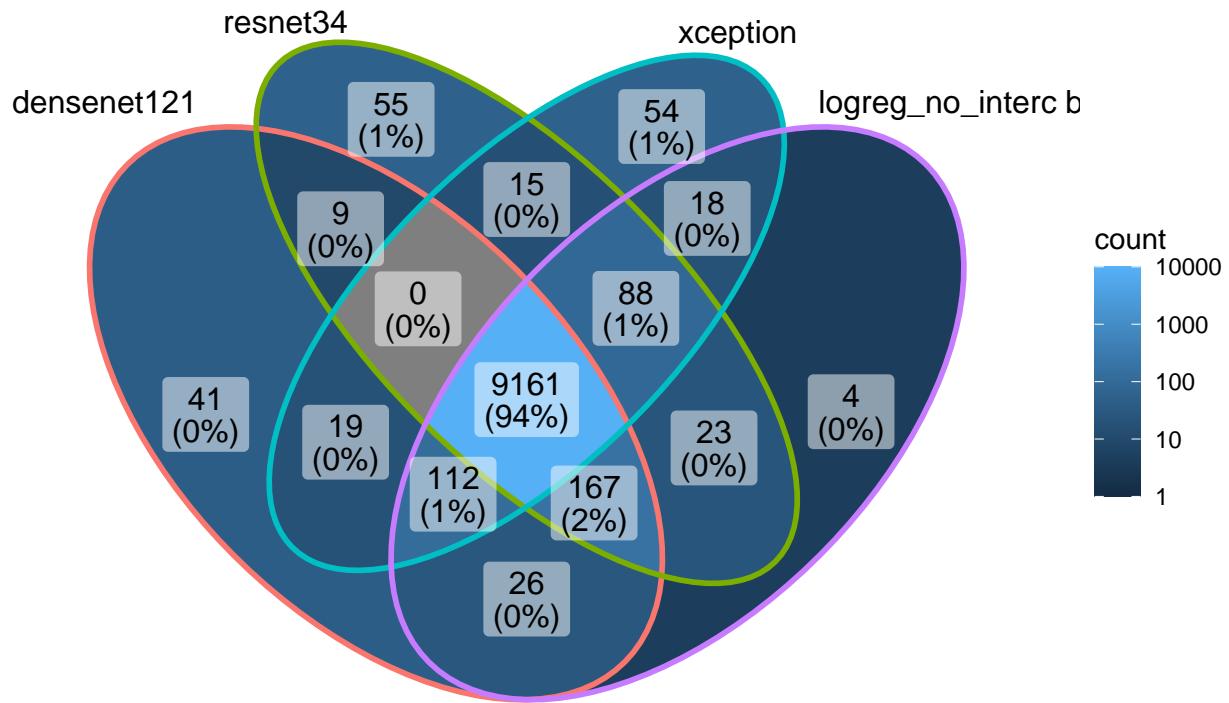
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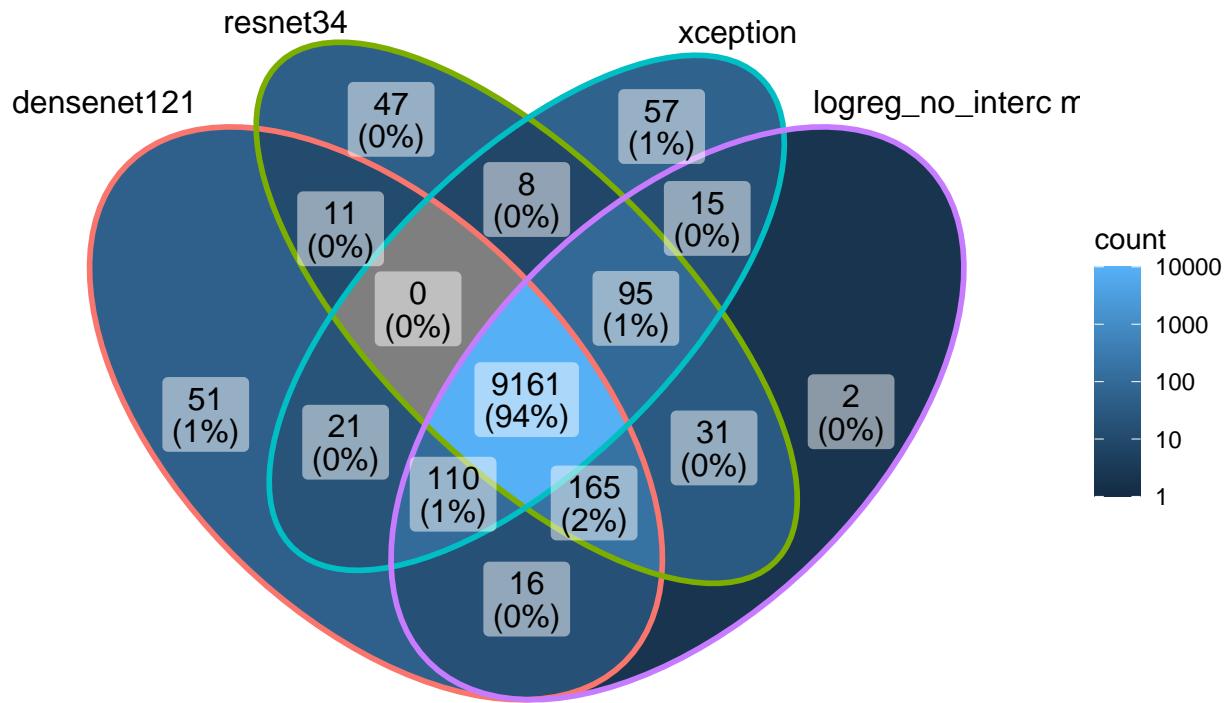
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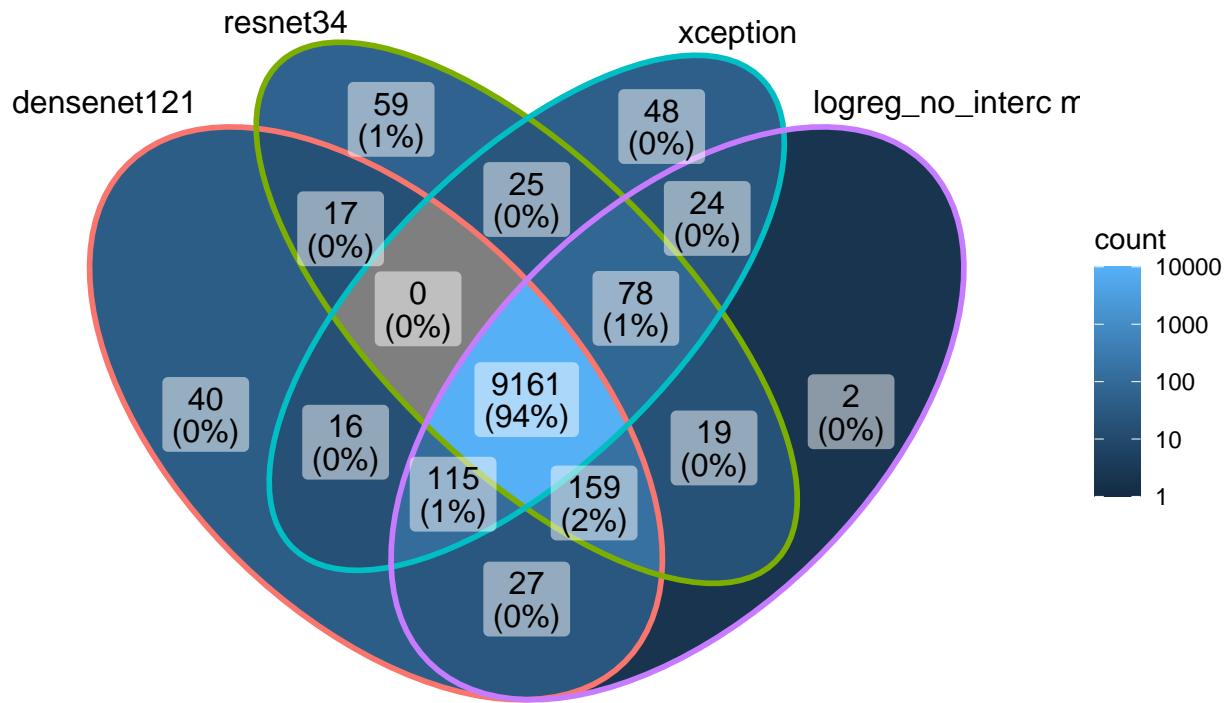
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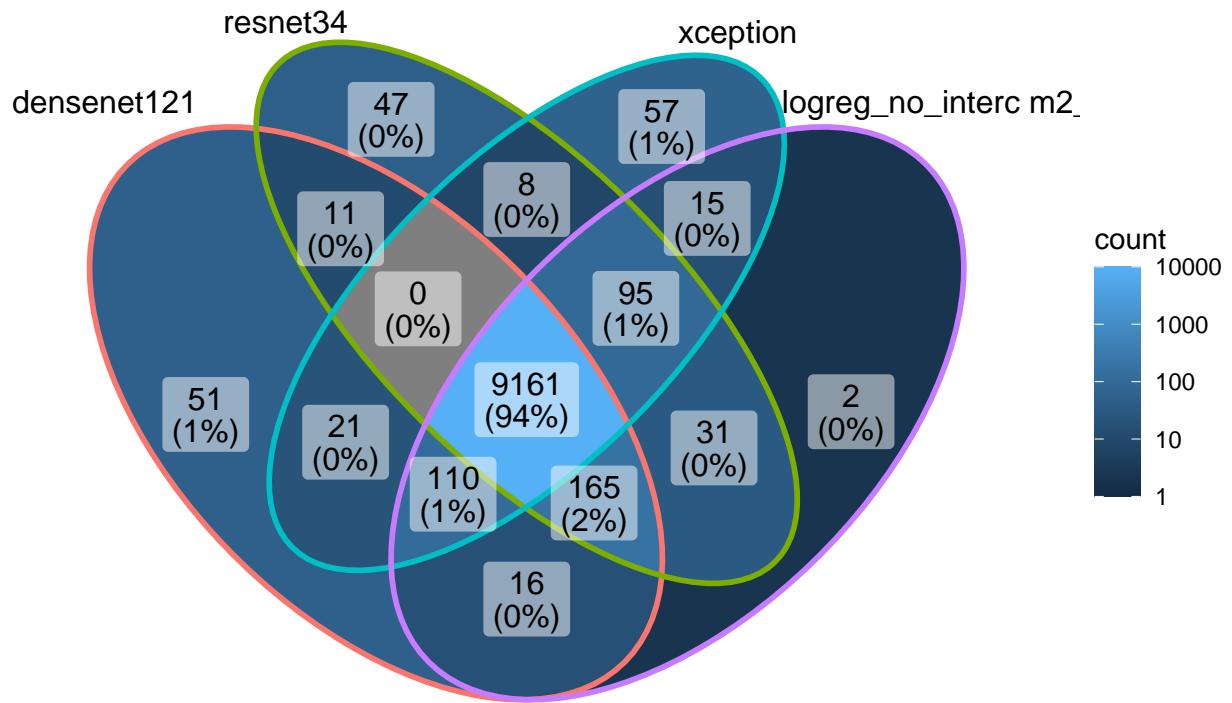
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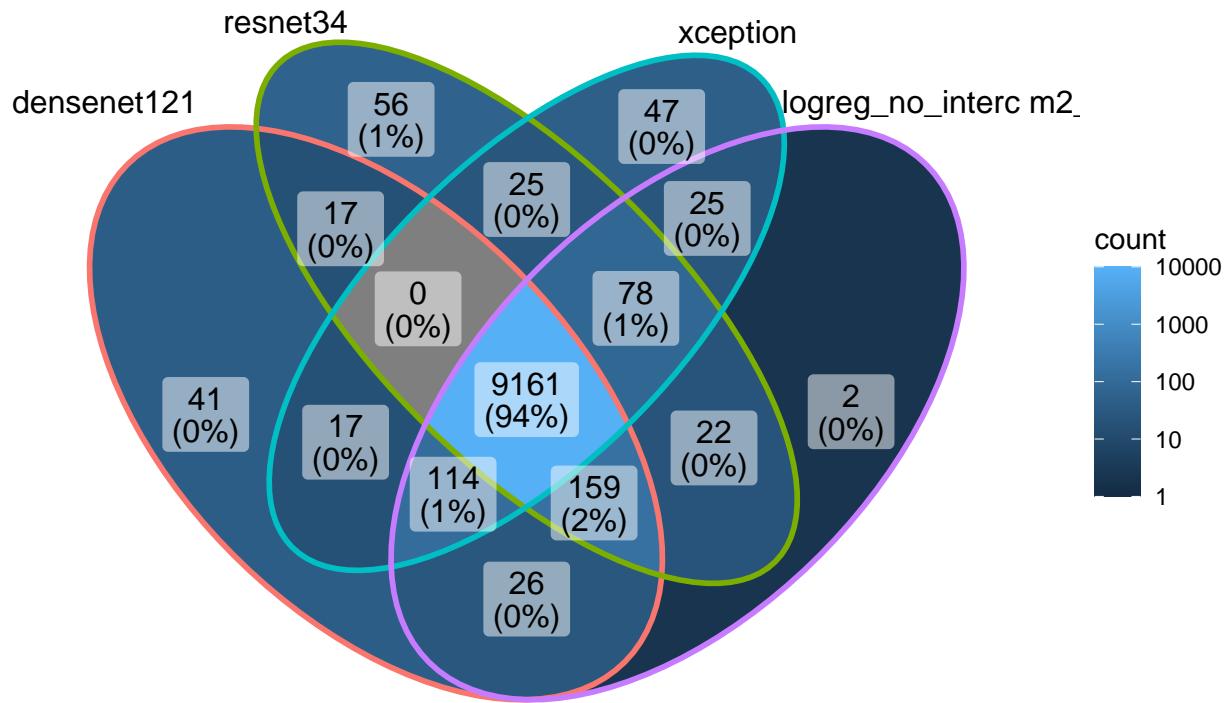
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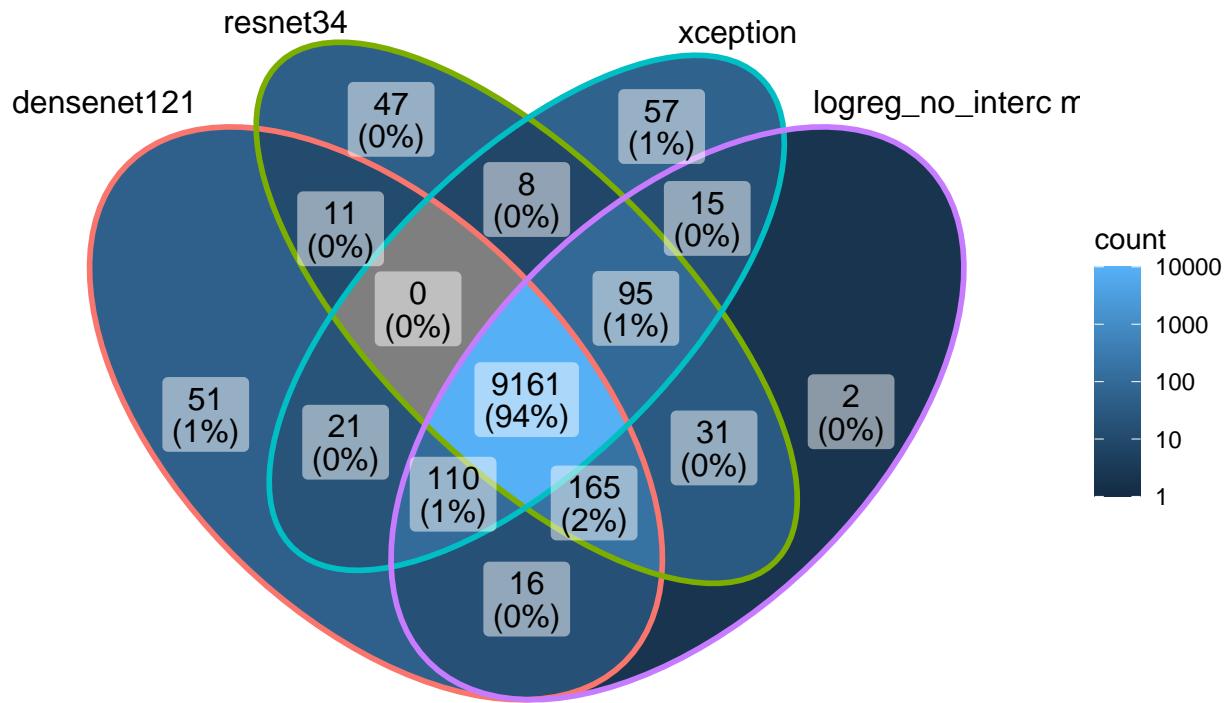
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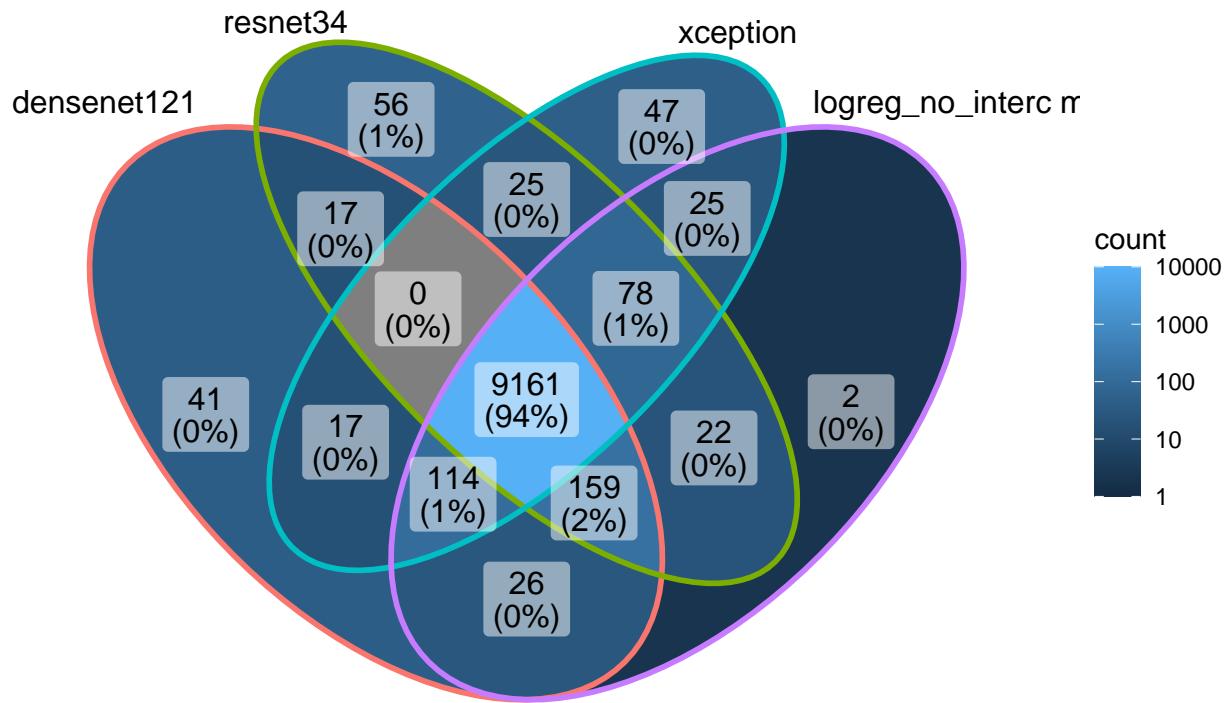
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tt – replication 8



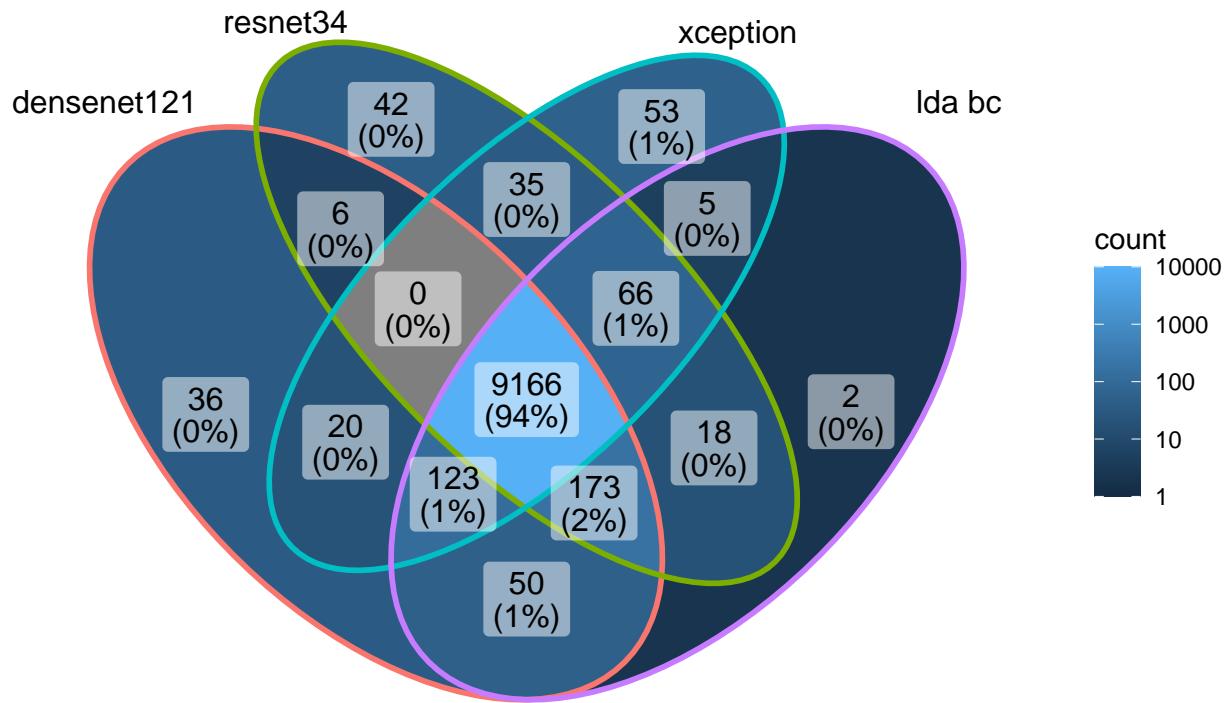
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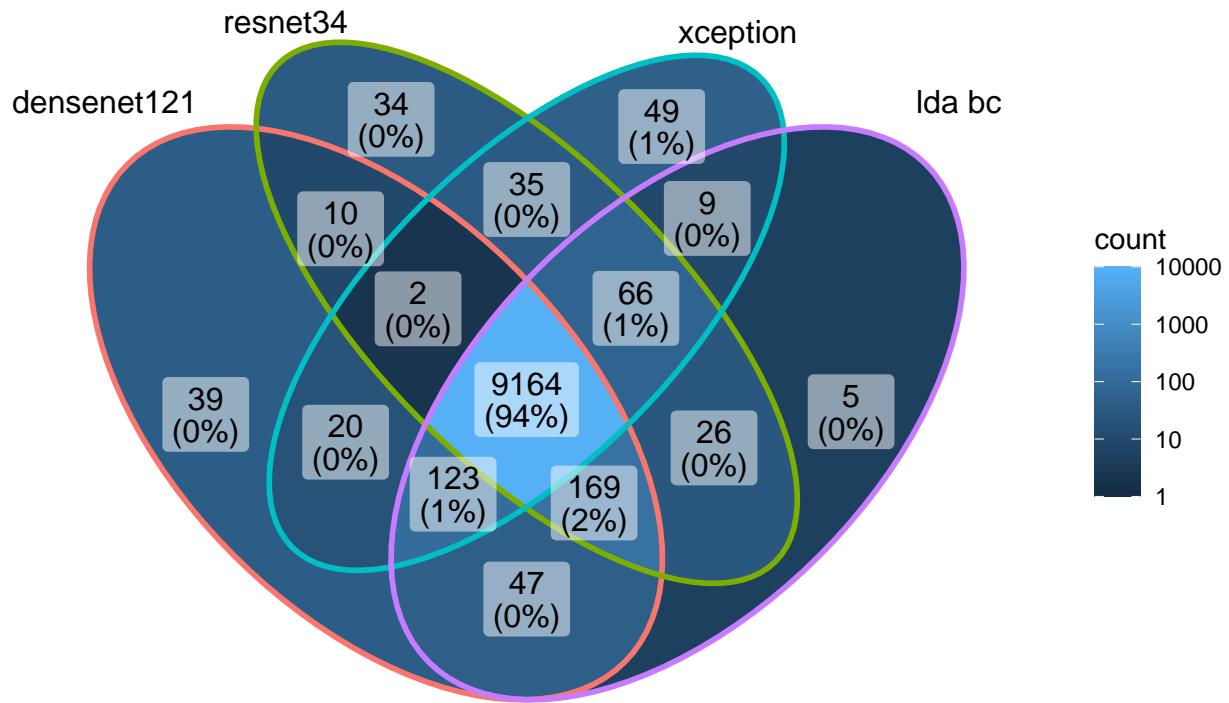


Warning: Transformation introduced infinite values in discrete y-axis

tt – replication 9

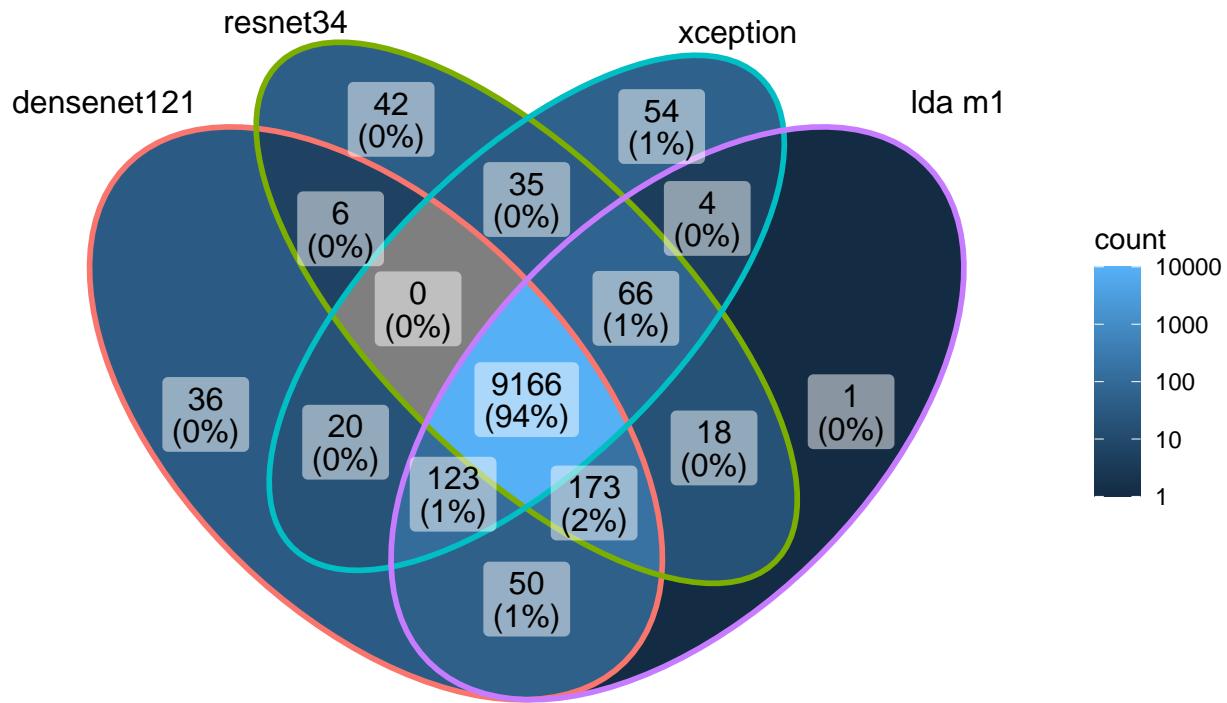


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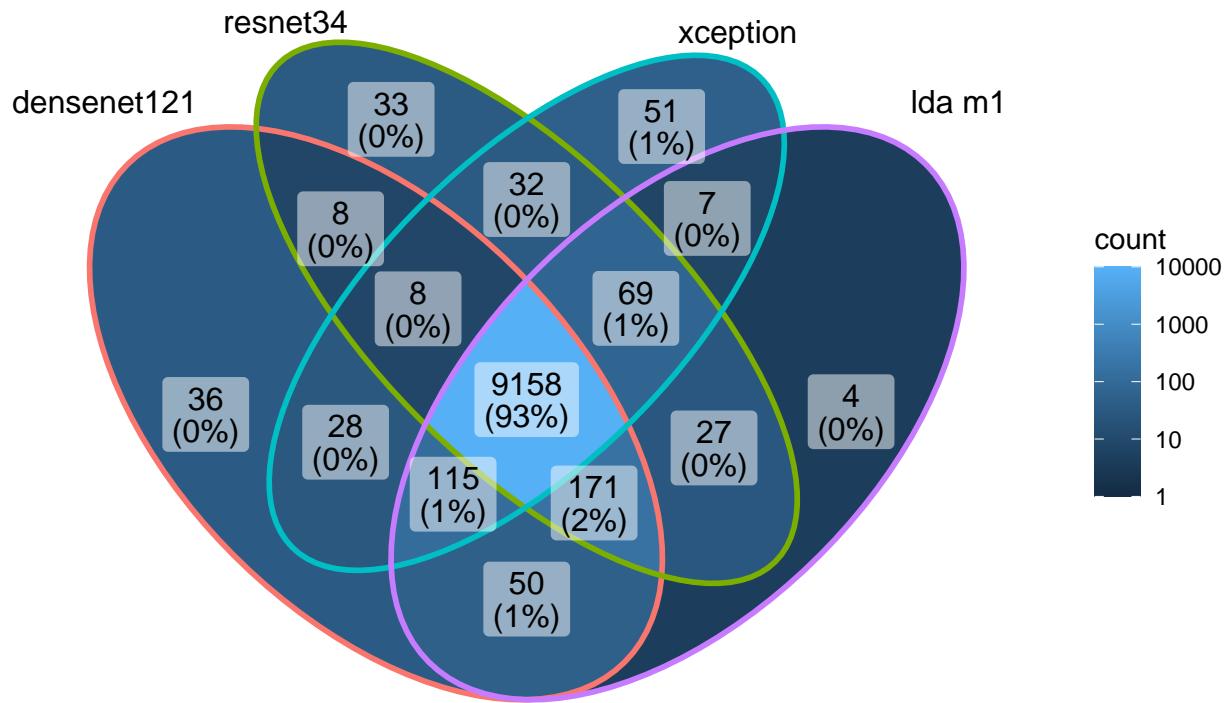


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tt – replication 9

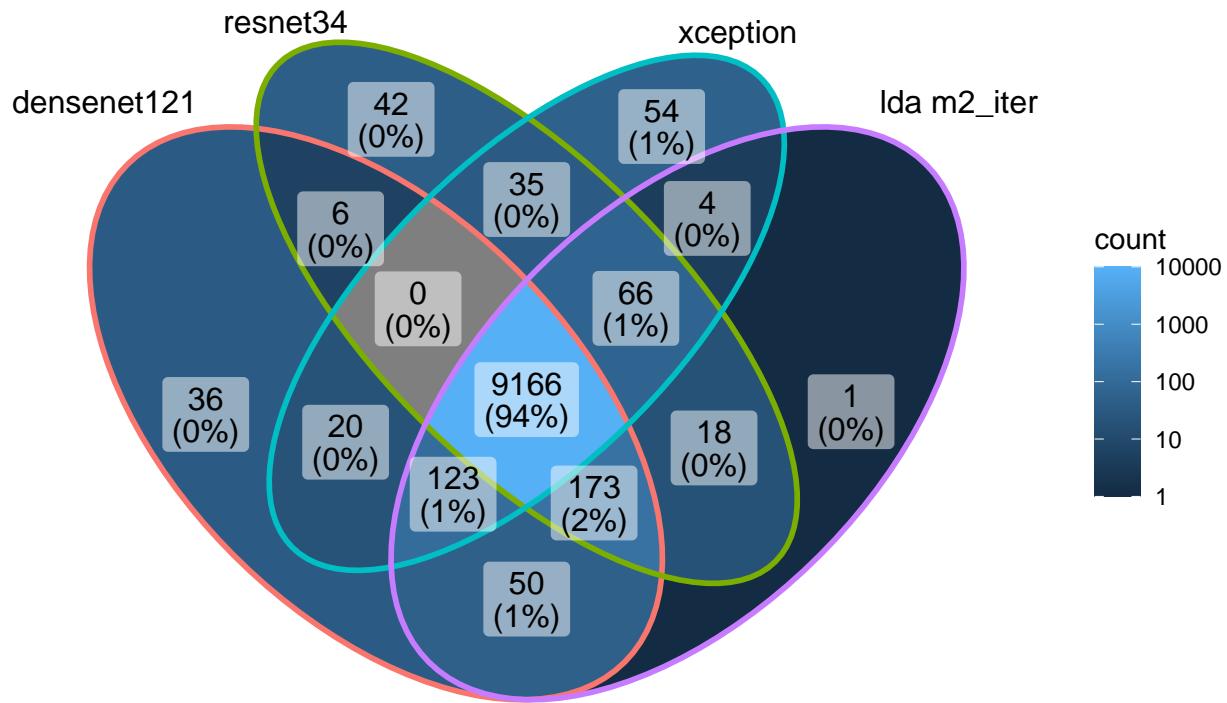


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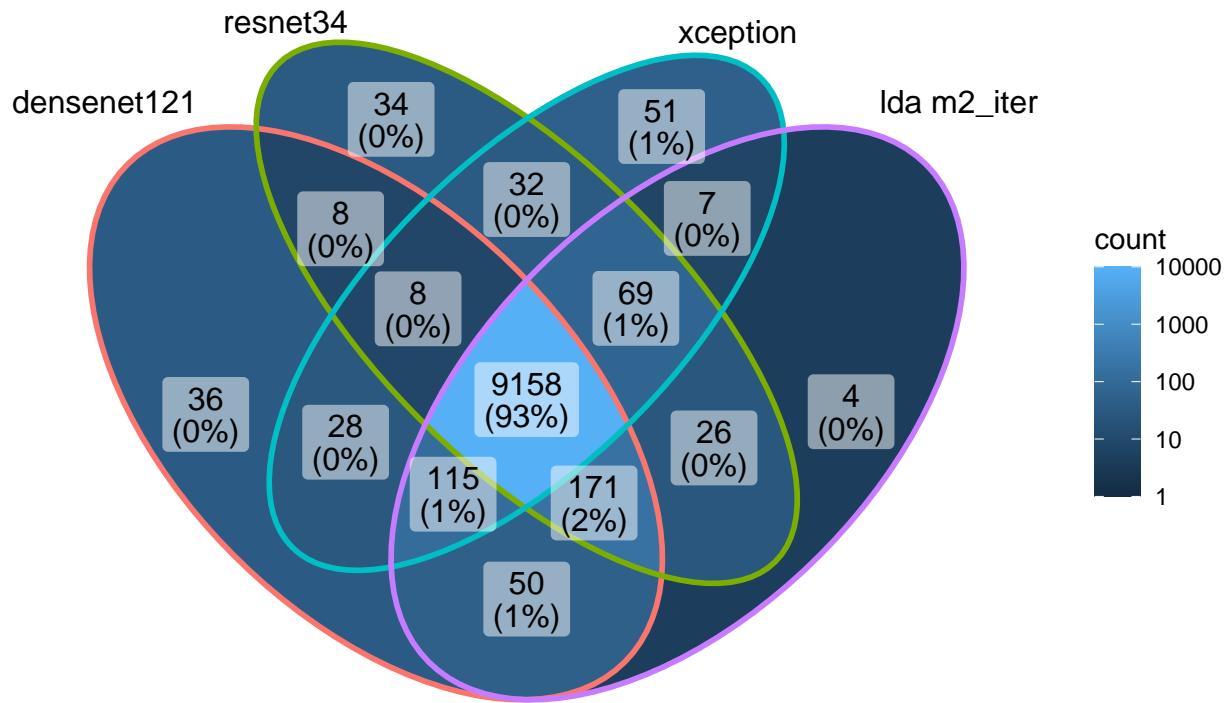


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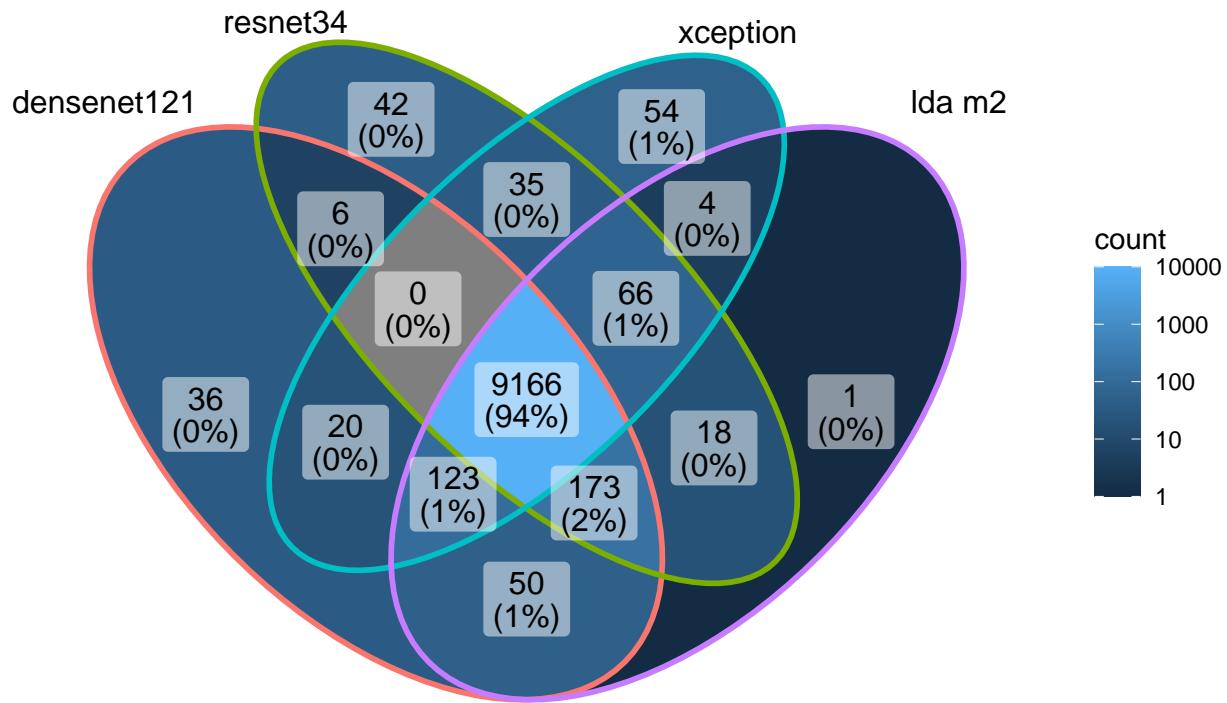


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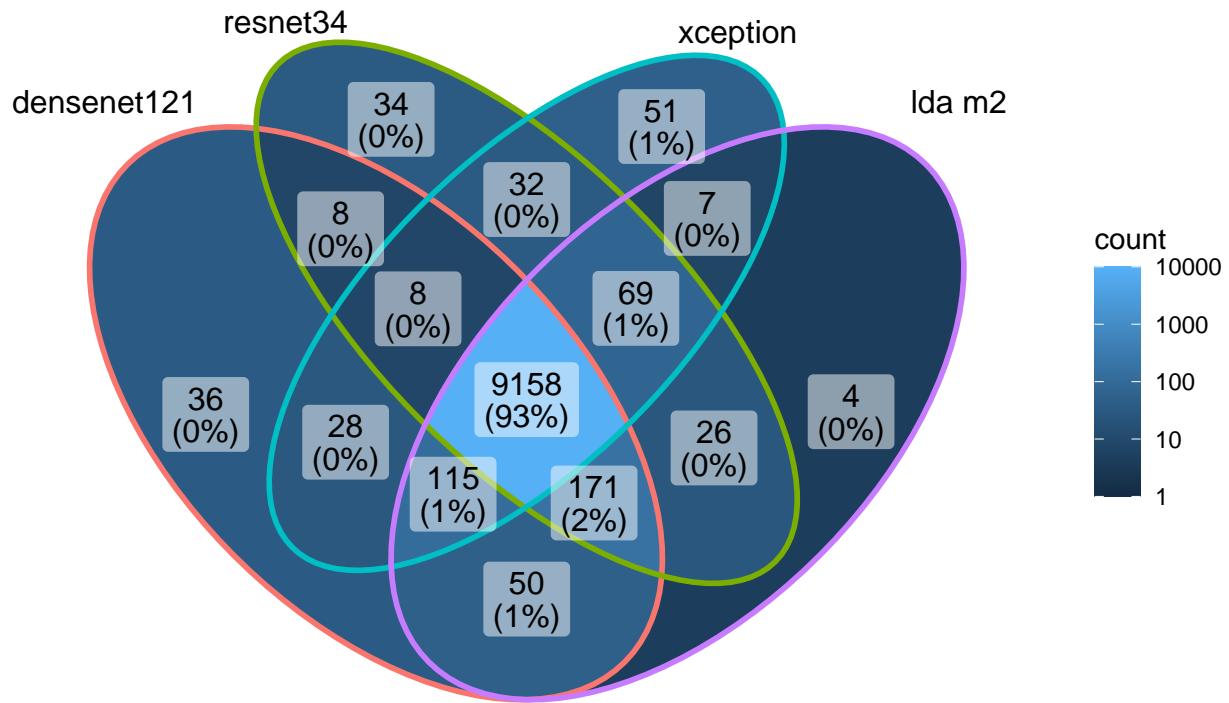


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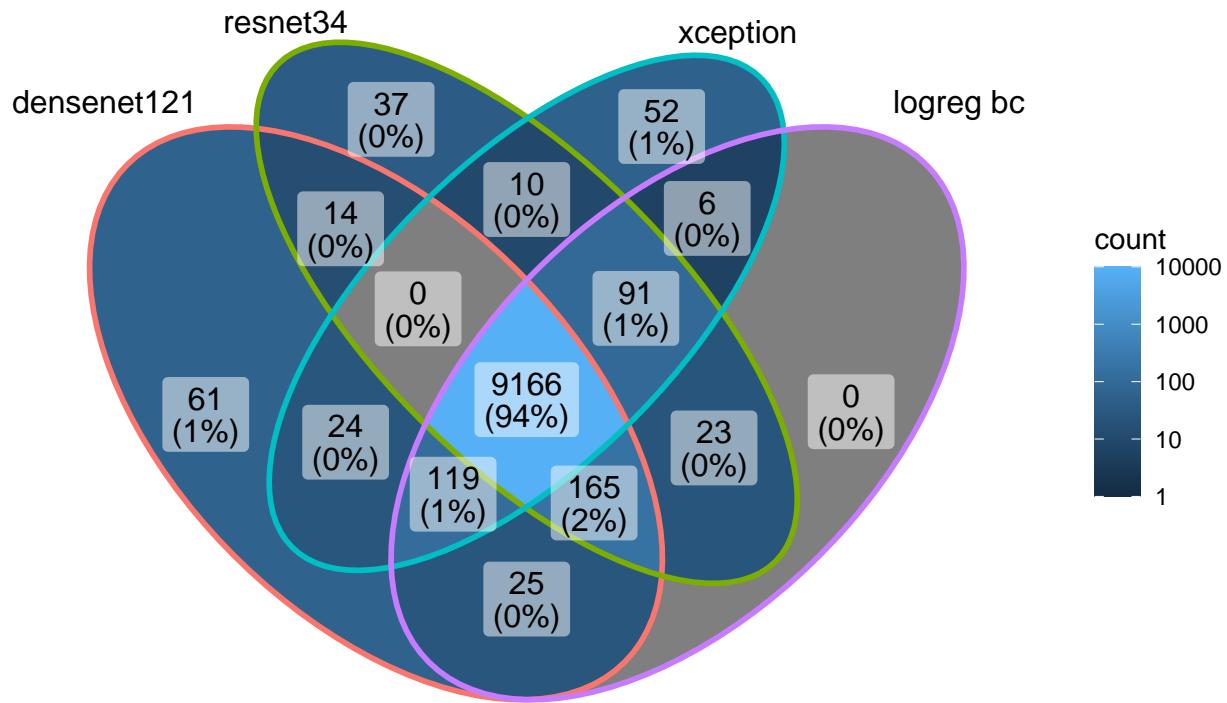


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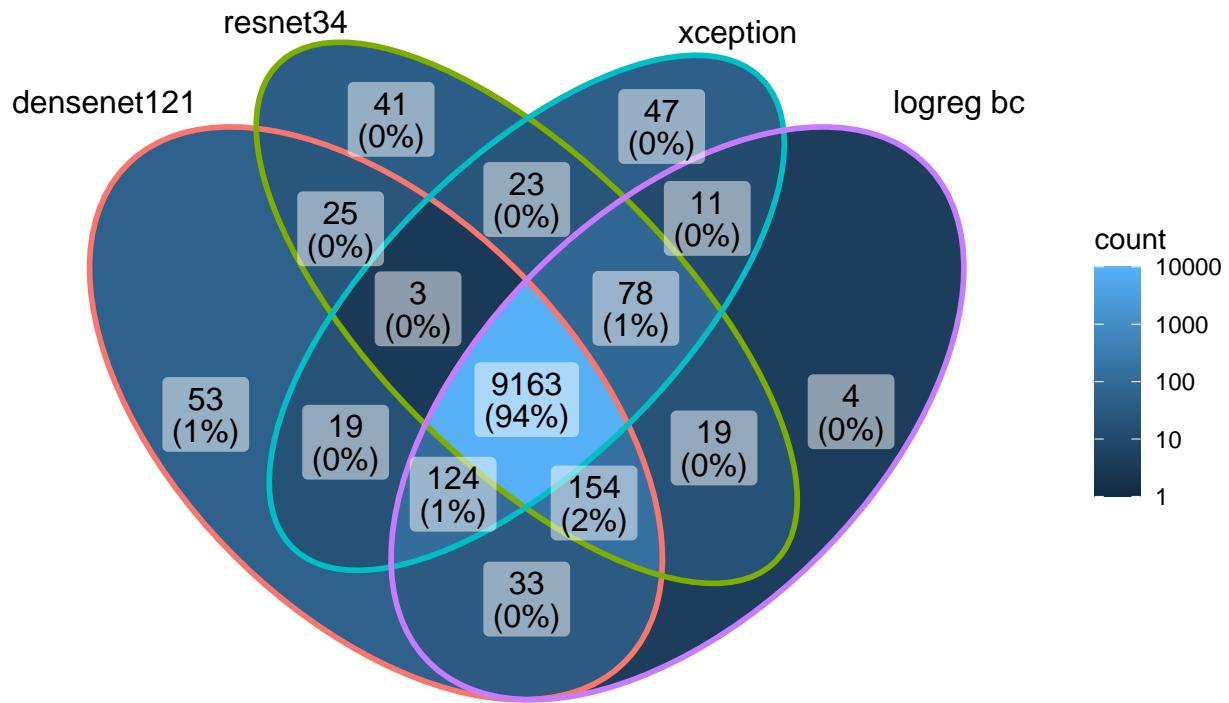


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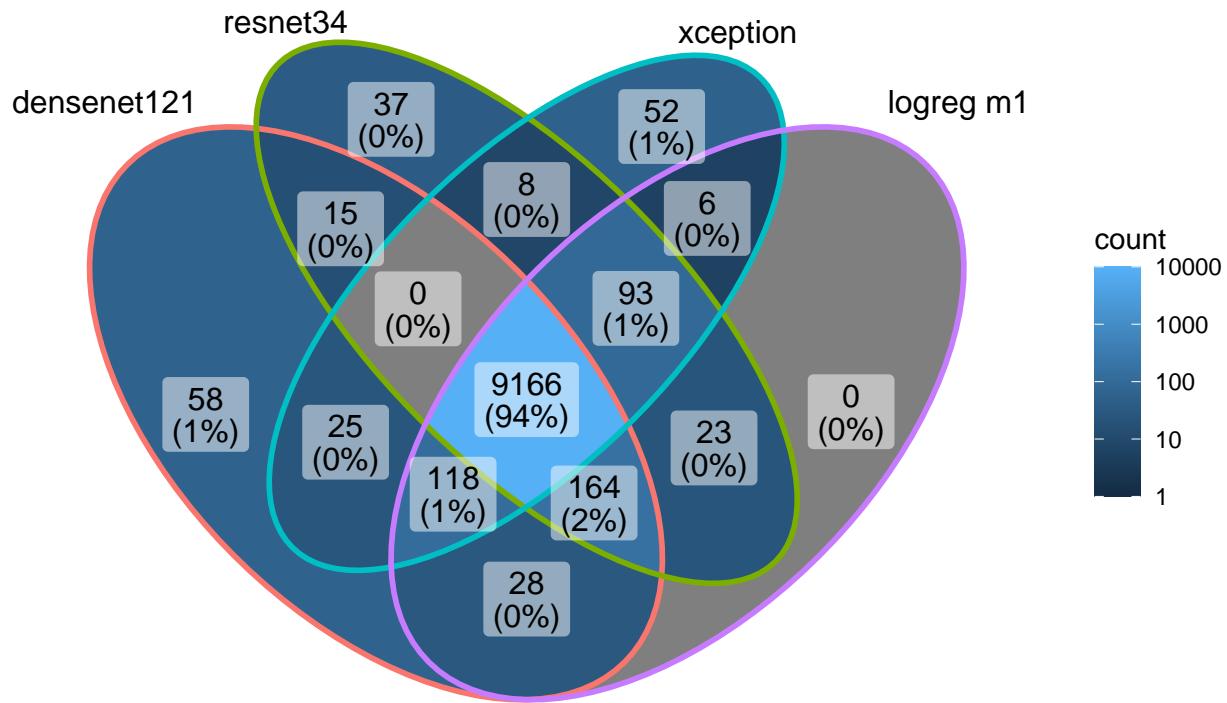


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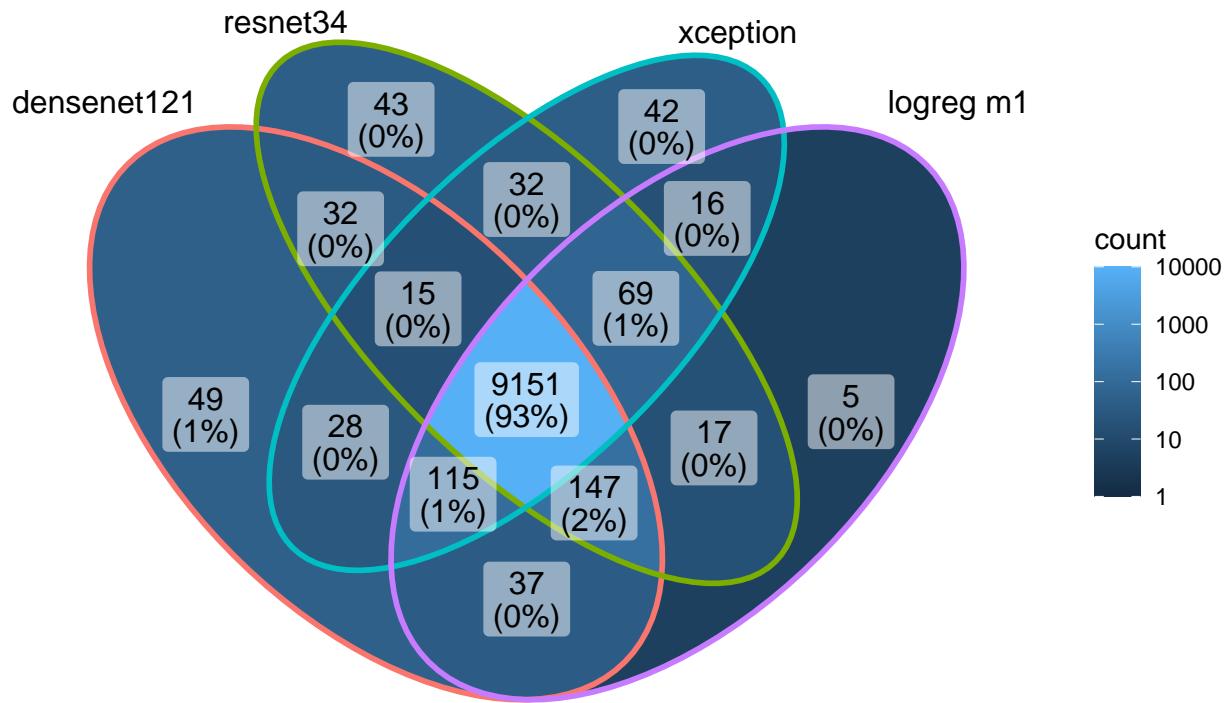


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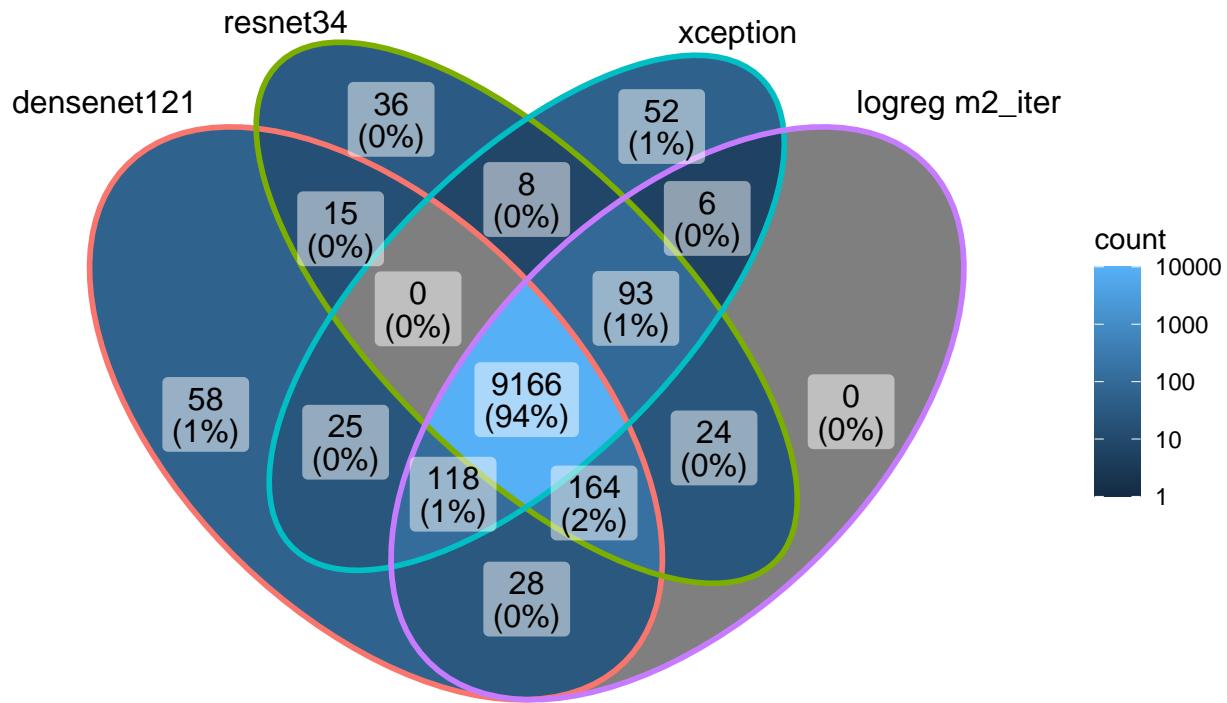


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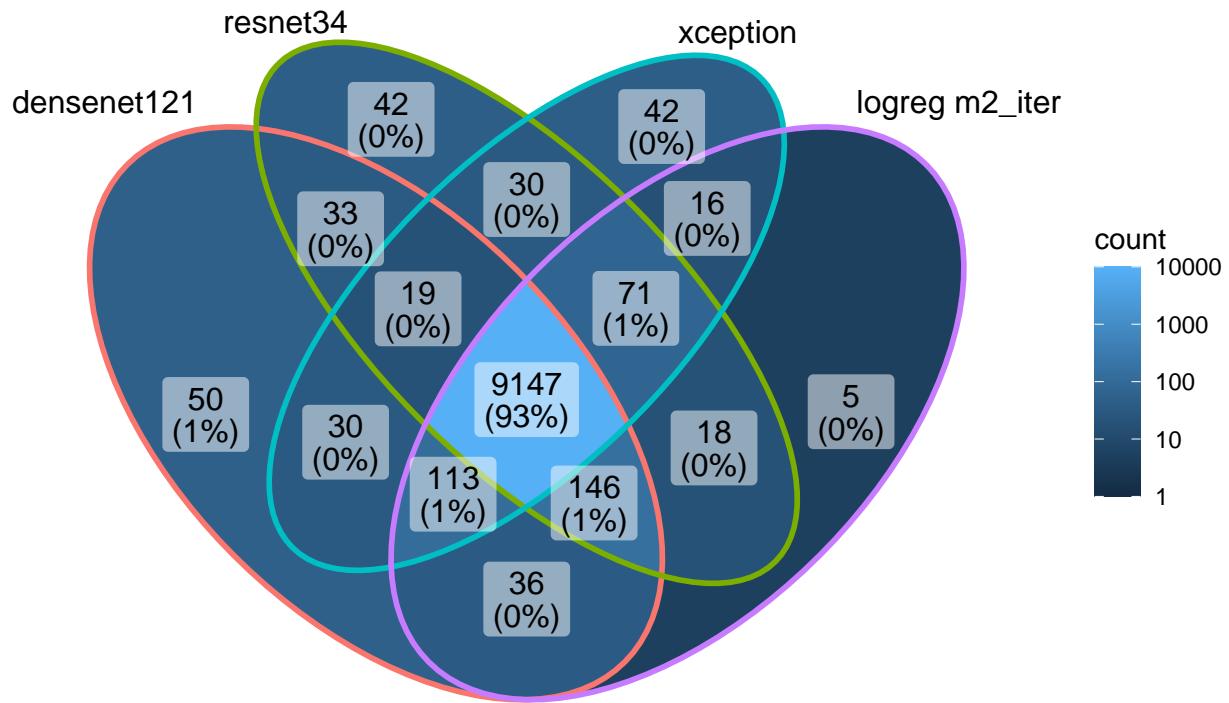


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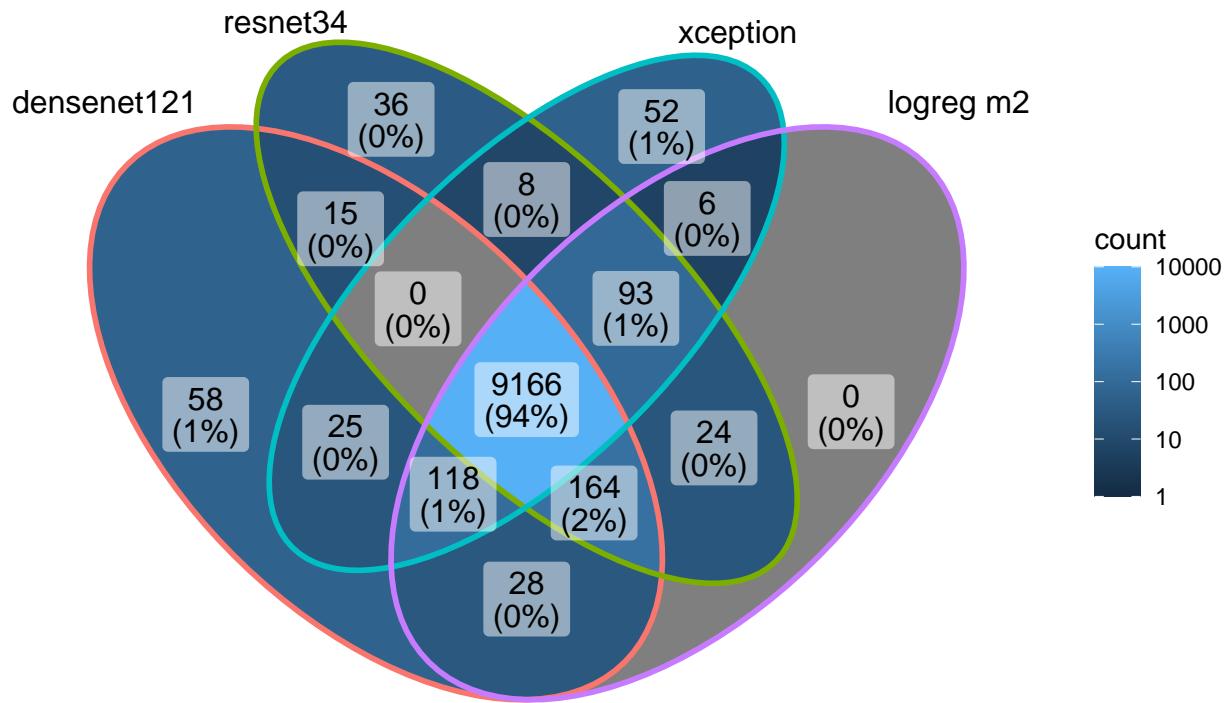


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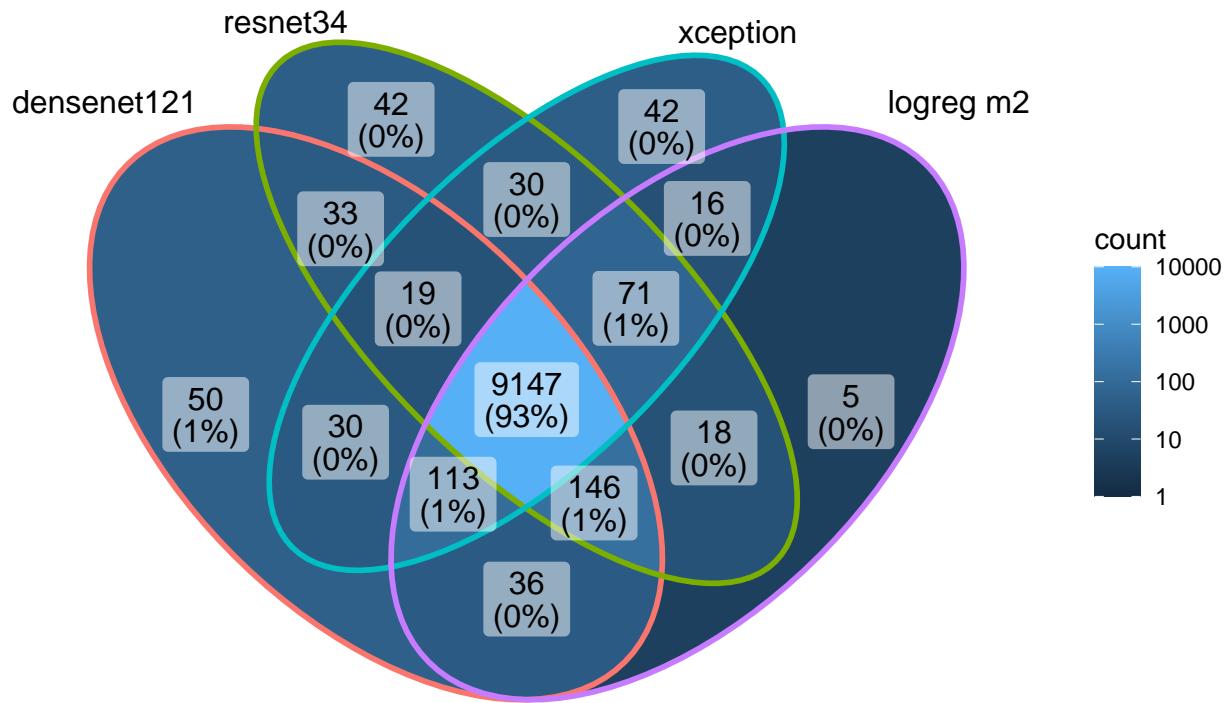


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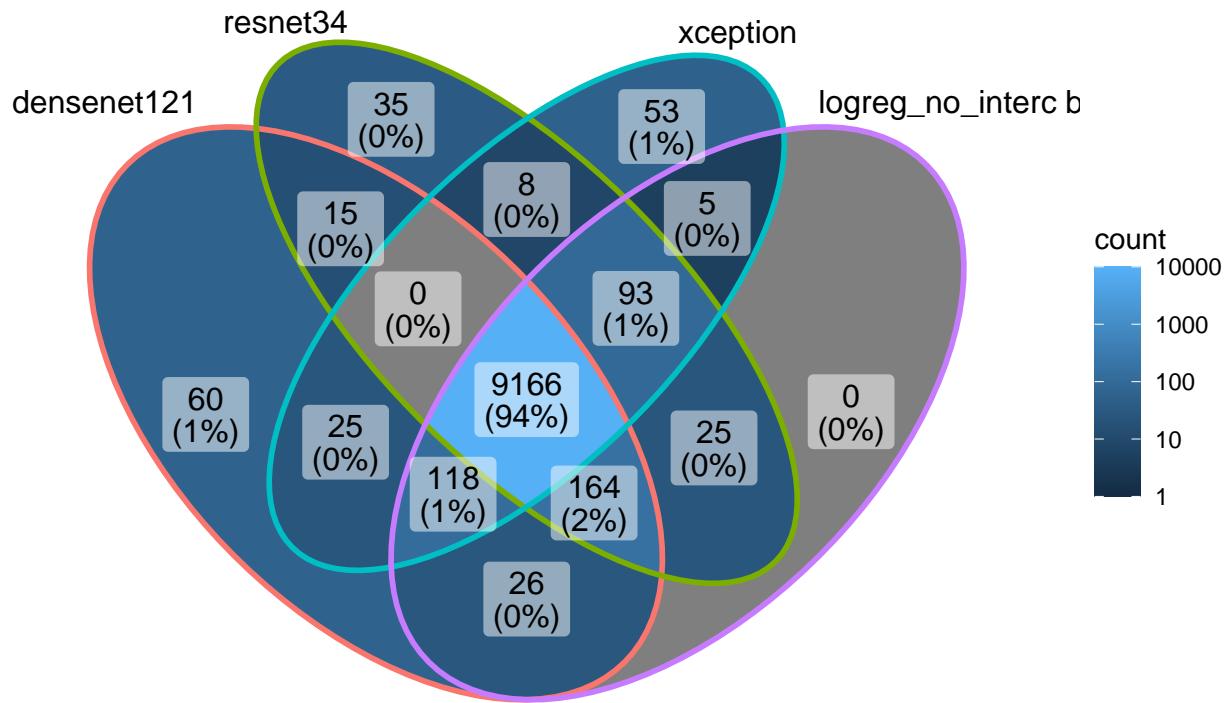


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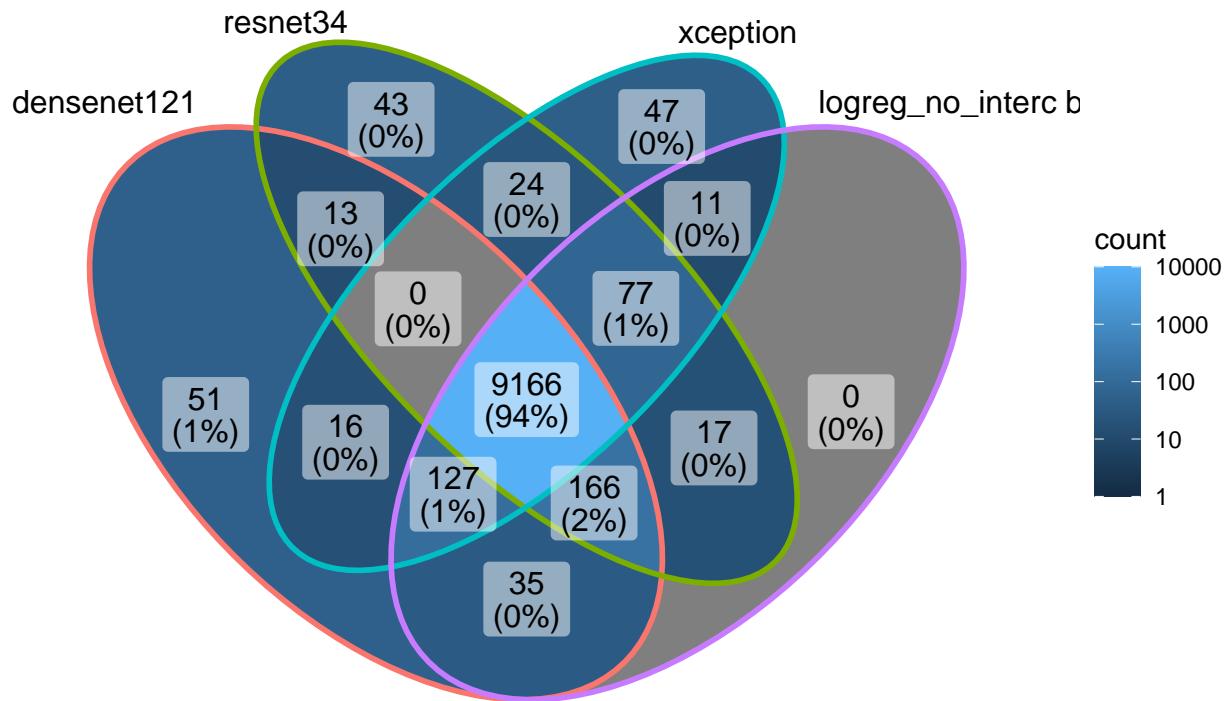
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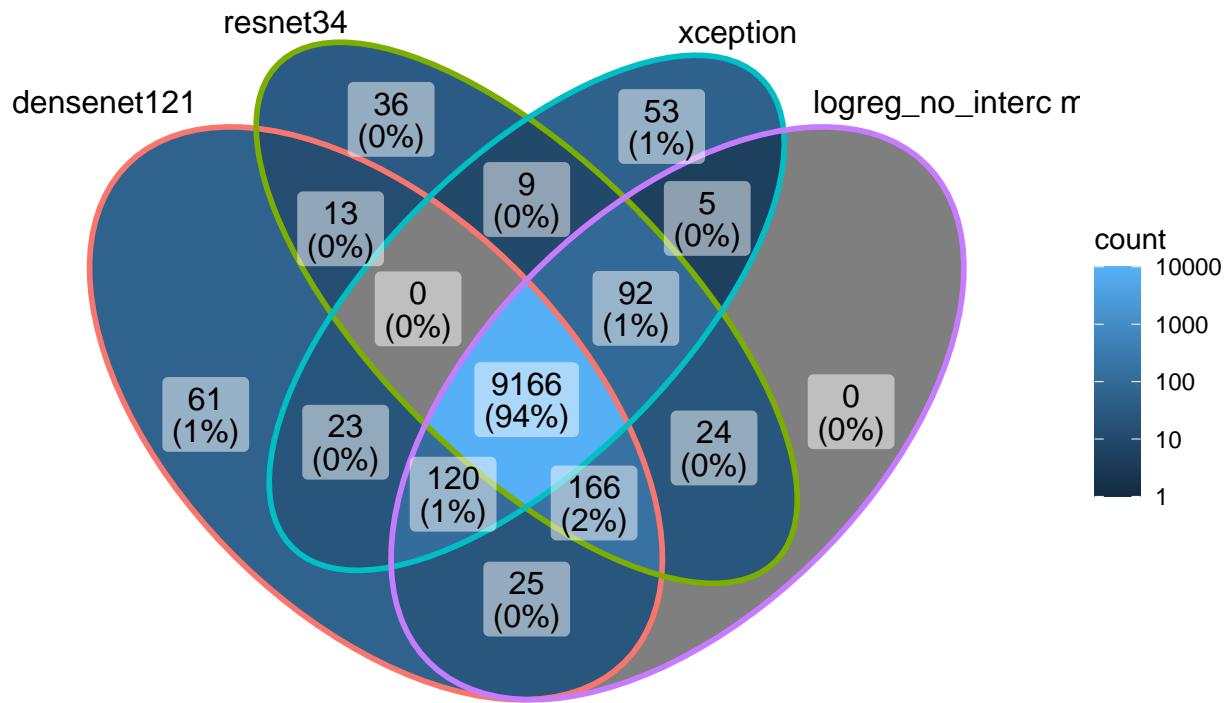
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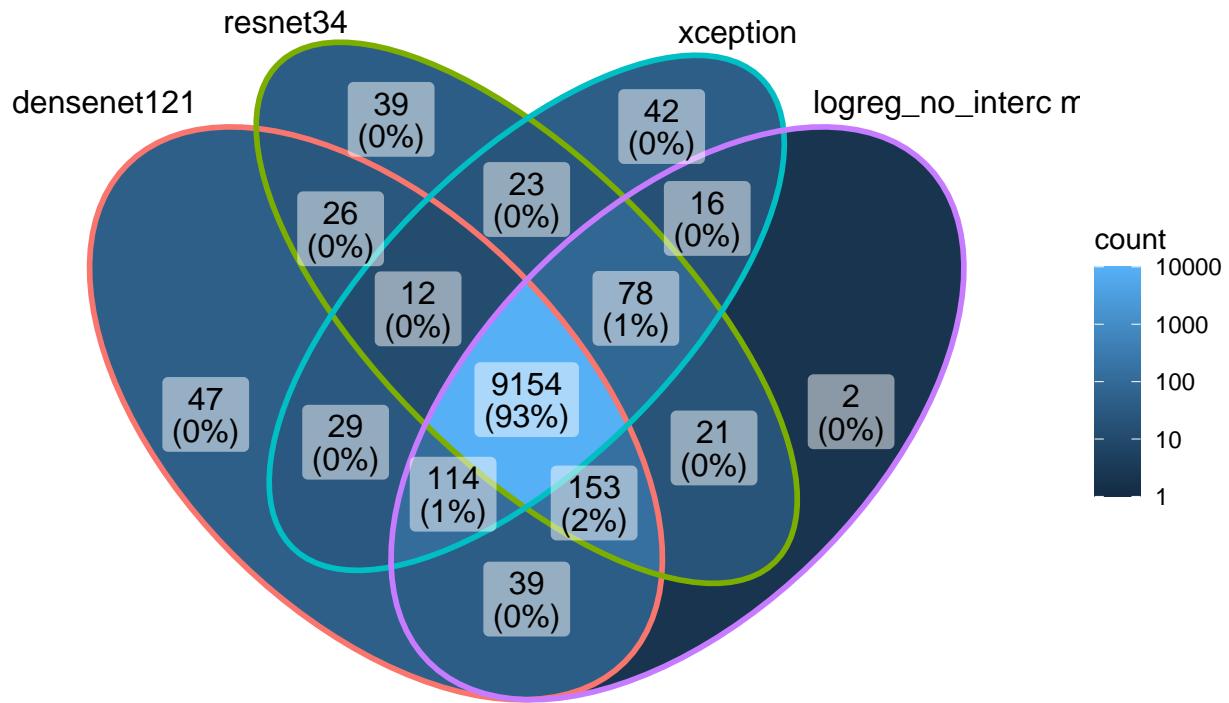


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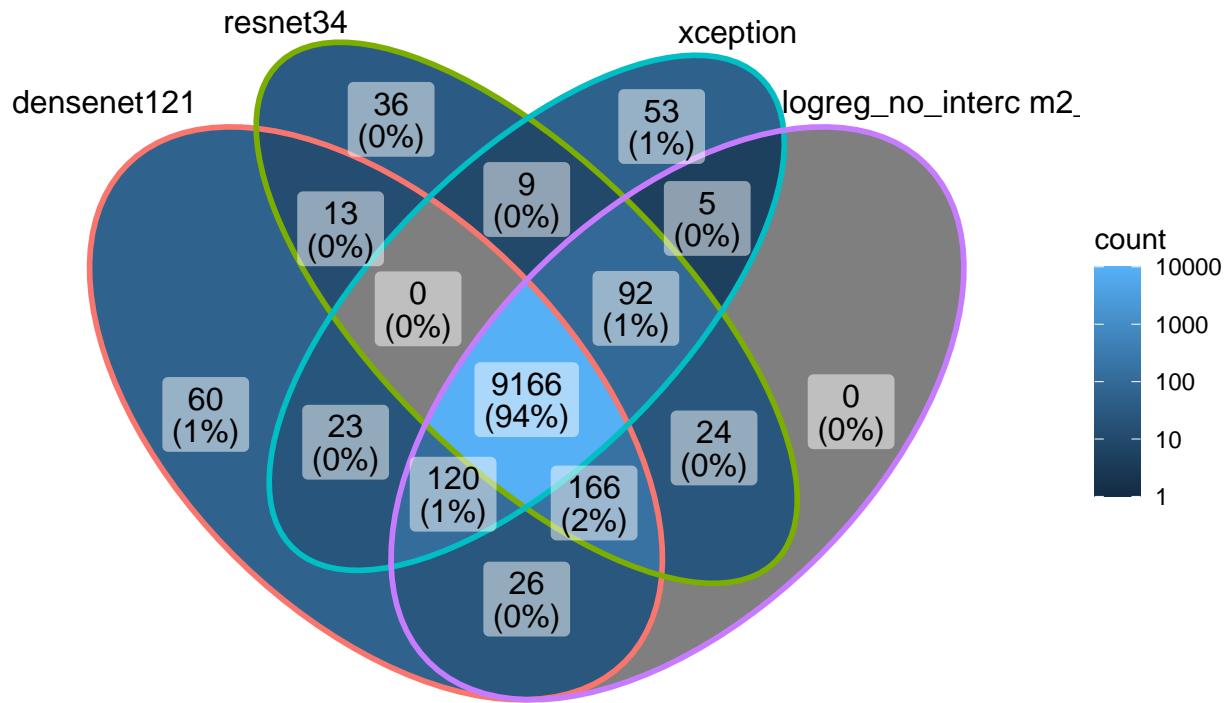


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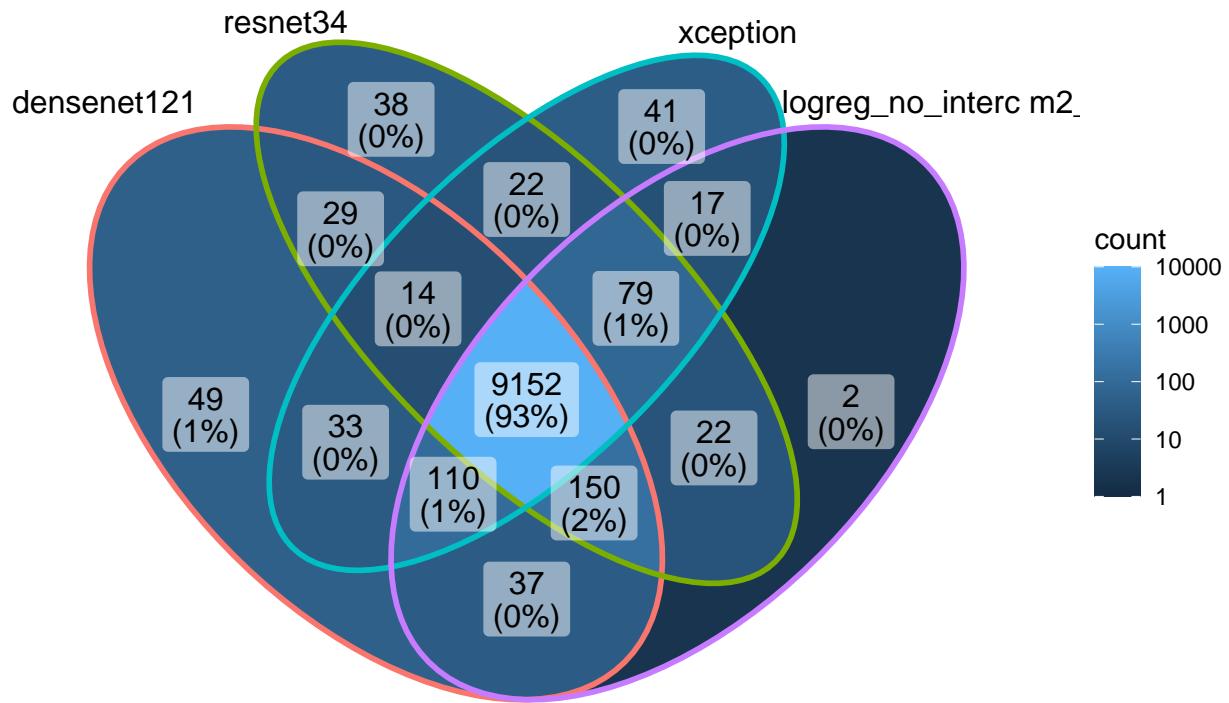


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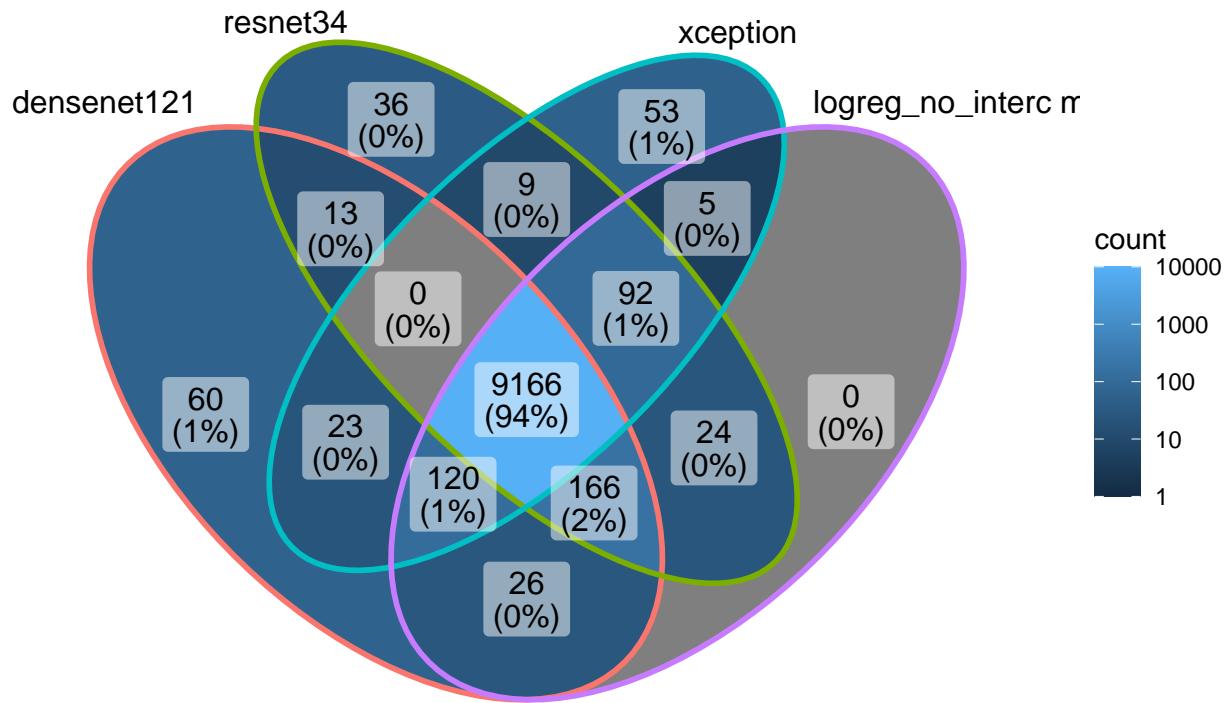


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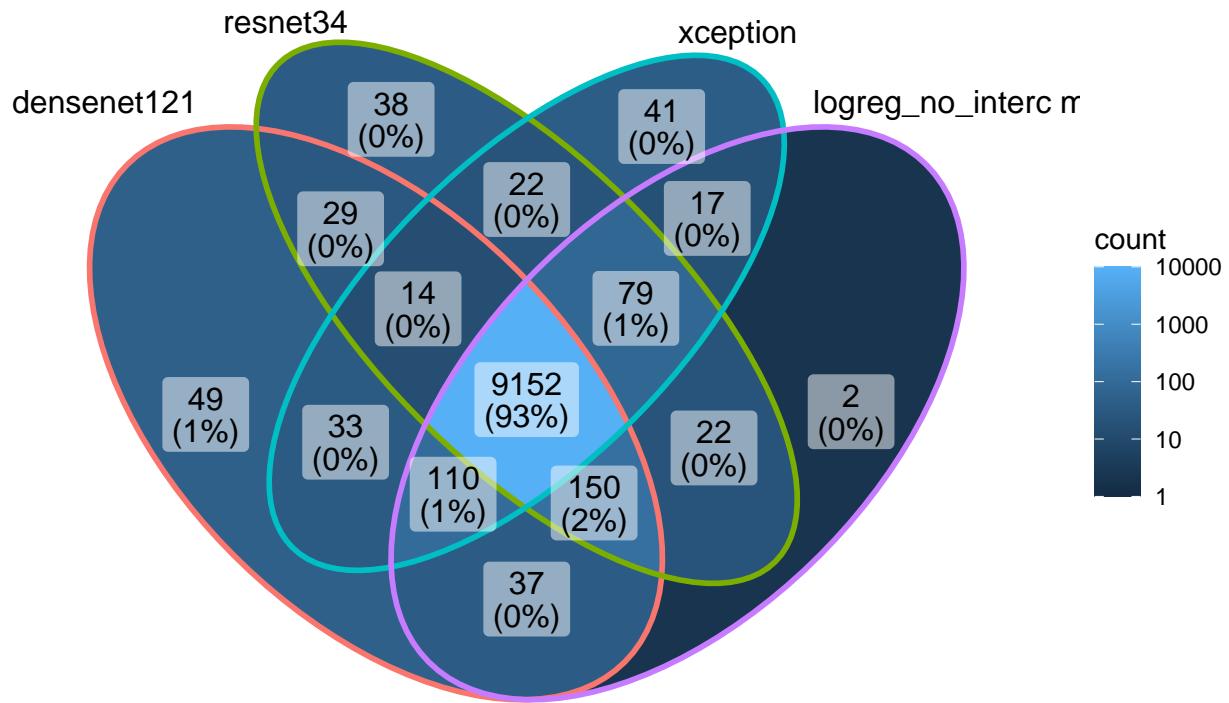


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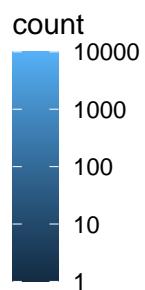
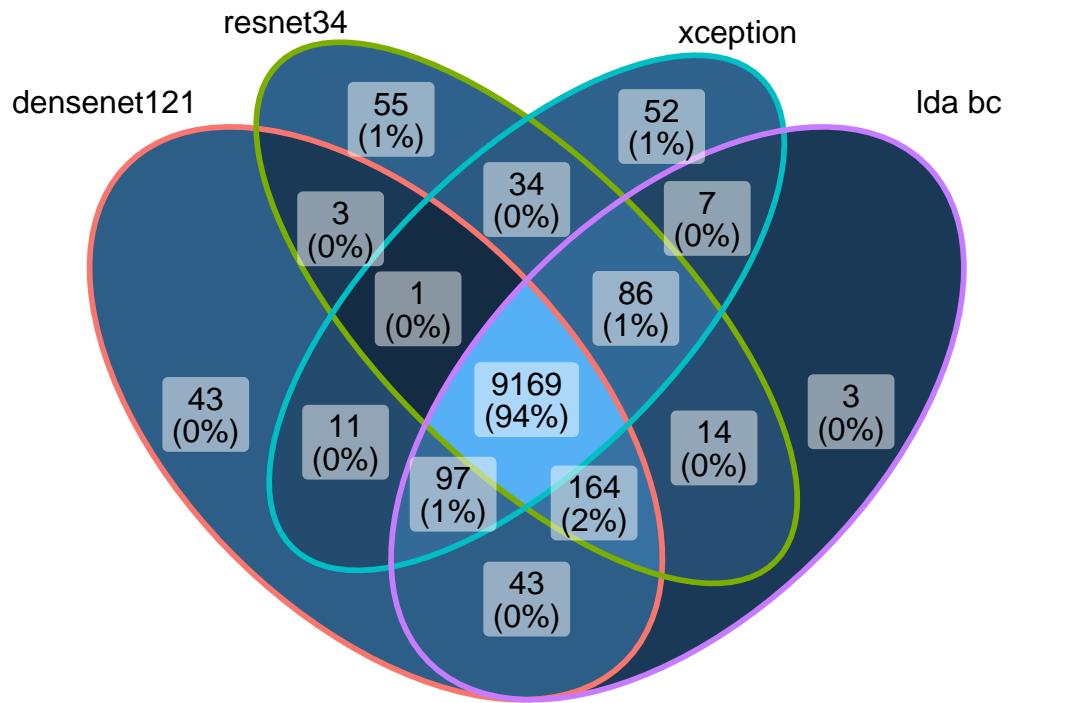
tt – replication 9



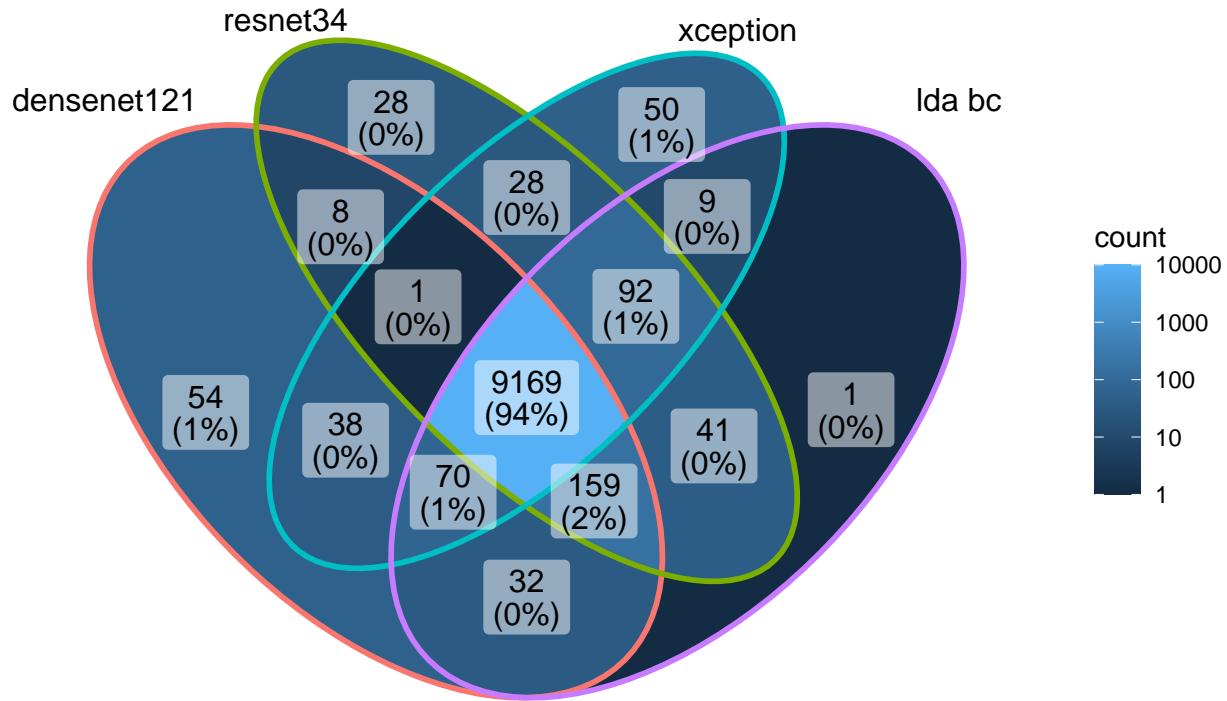
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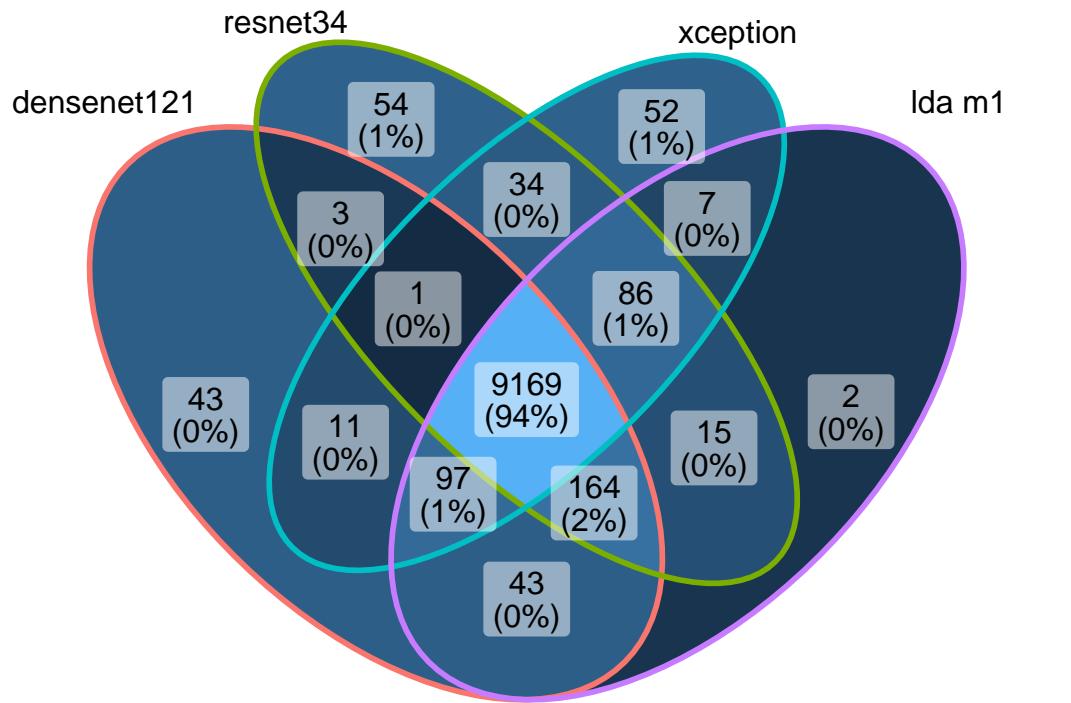
tt – replication 10



vt – replication 10

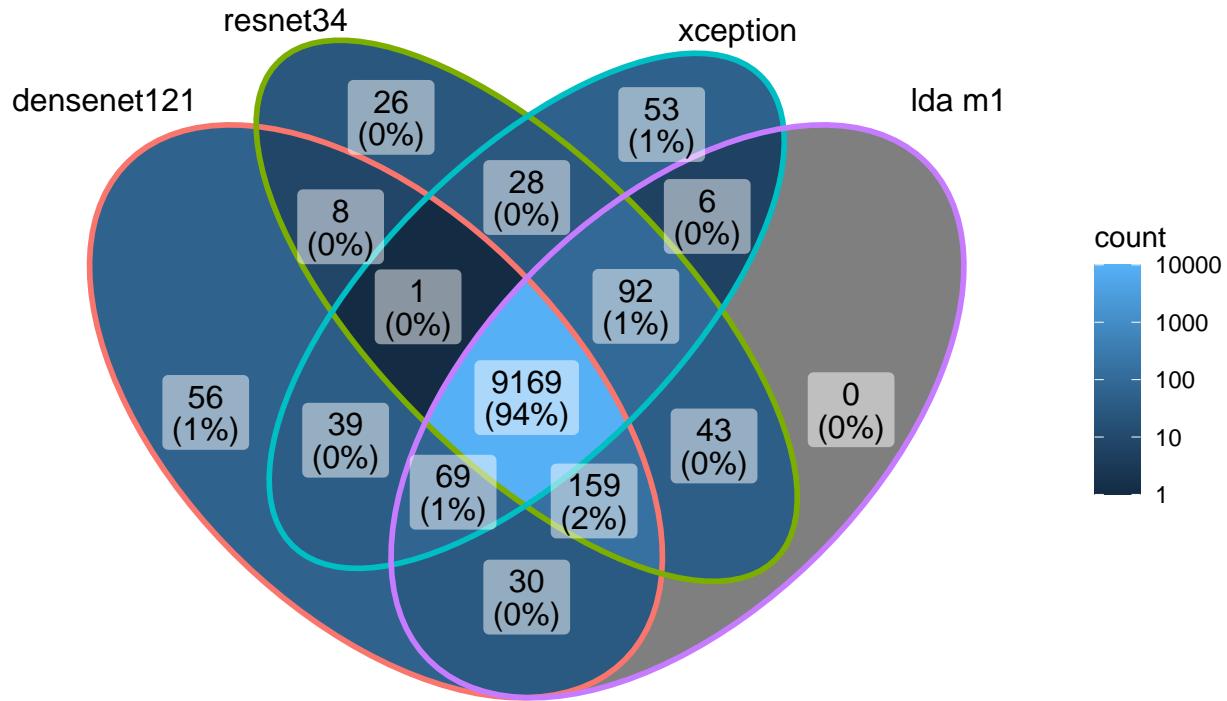


tt – replication 10

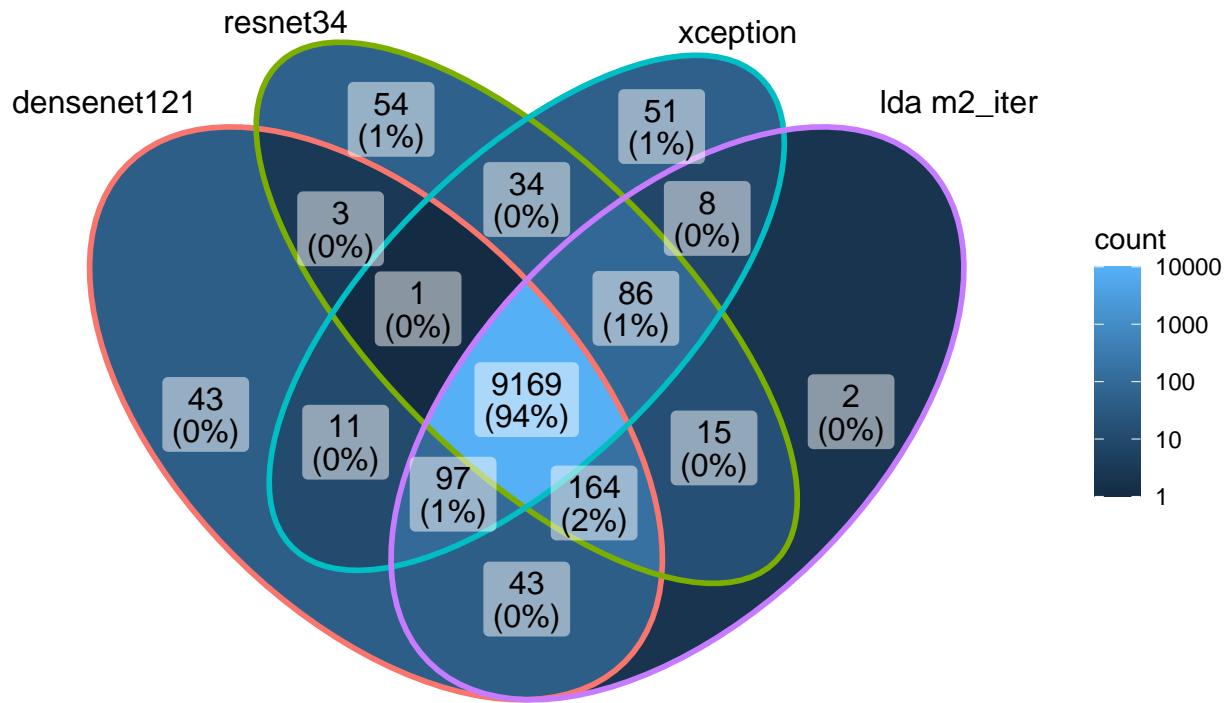


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vt – replication 10

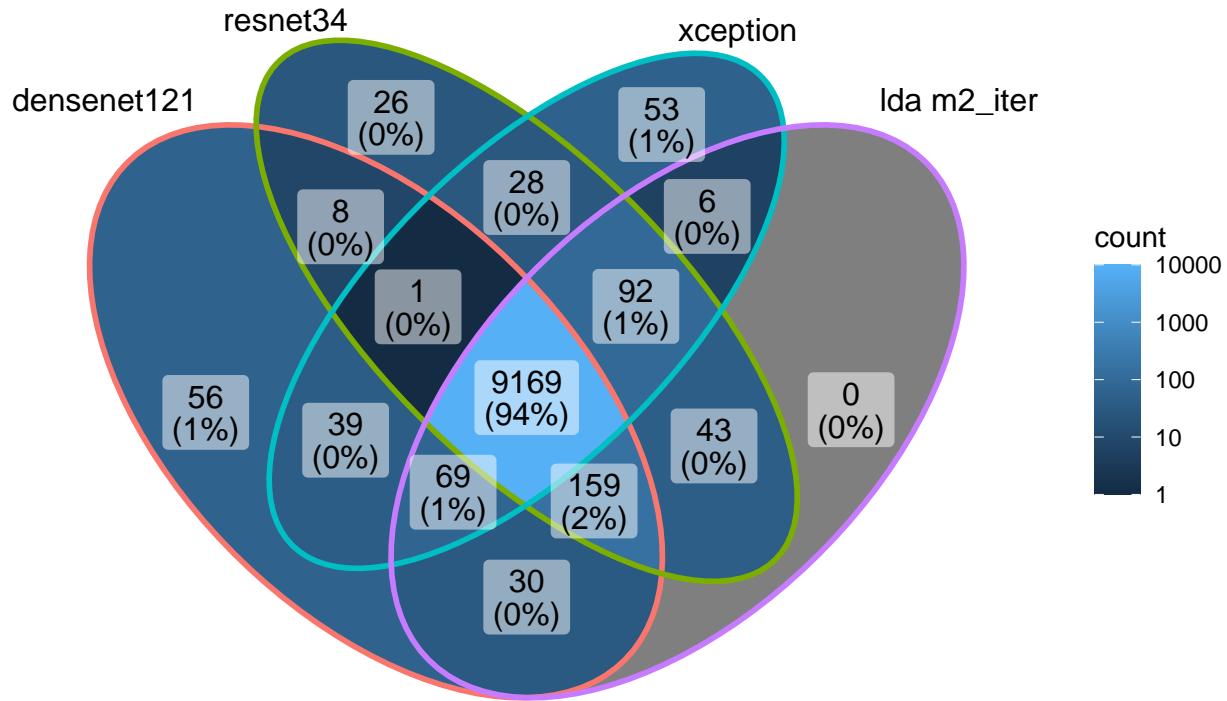


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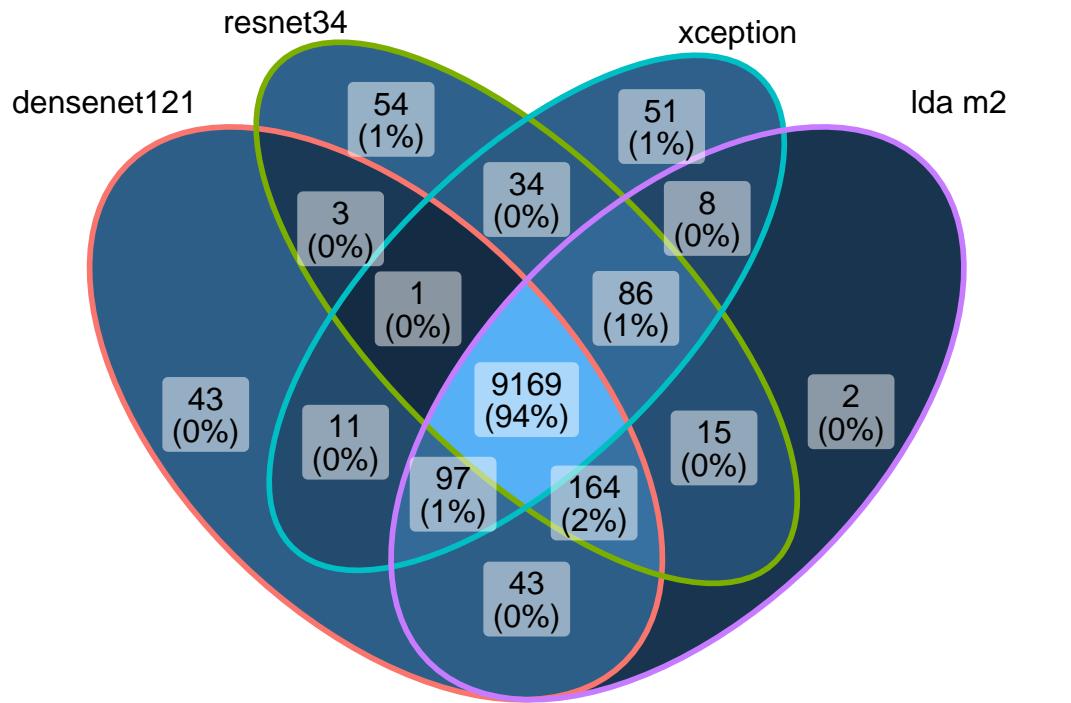


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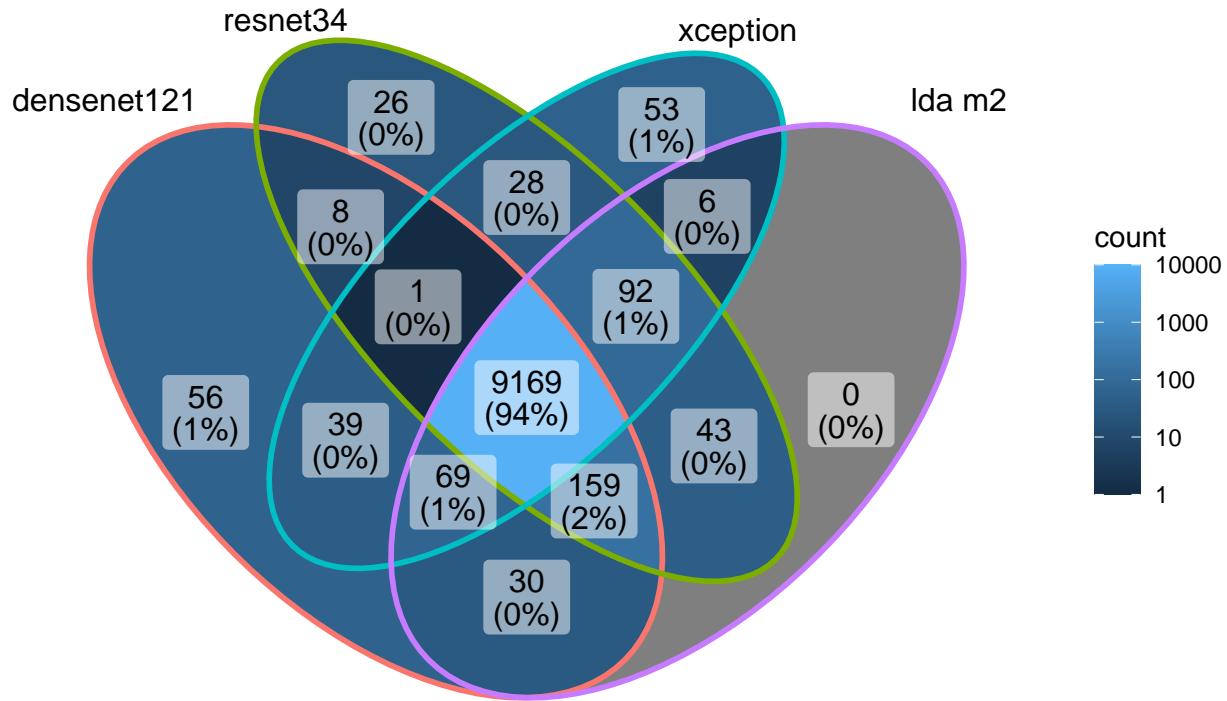


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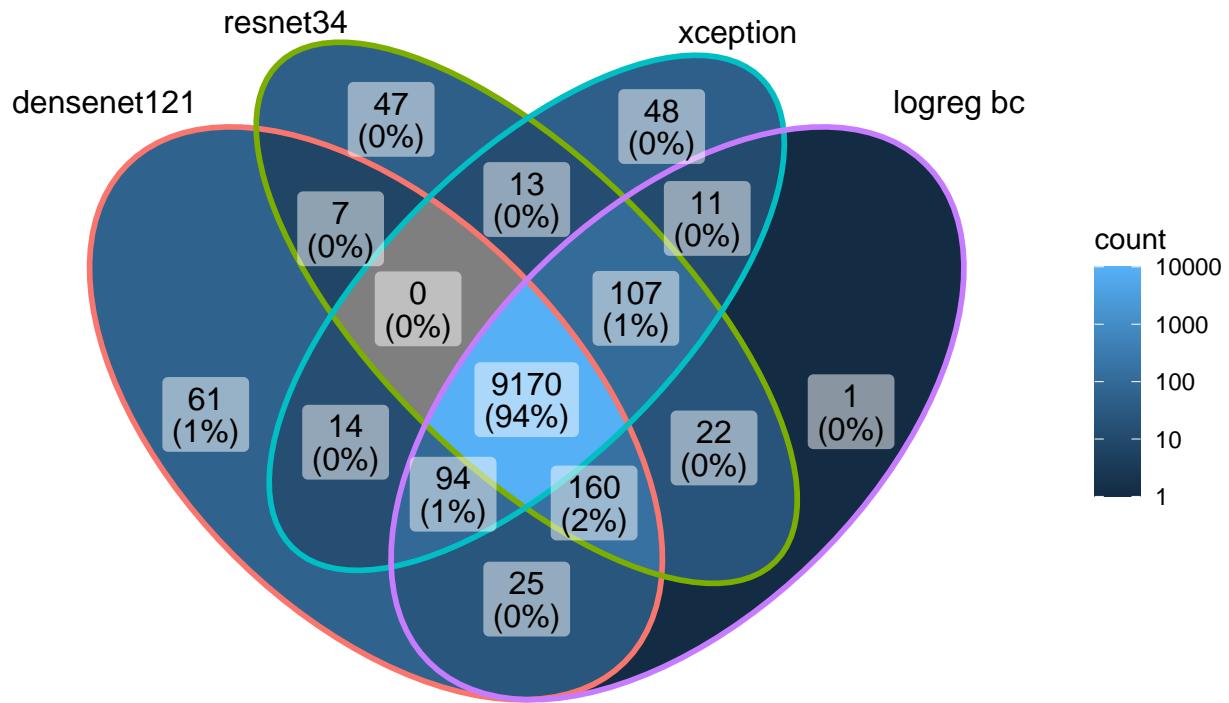
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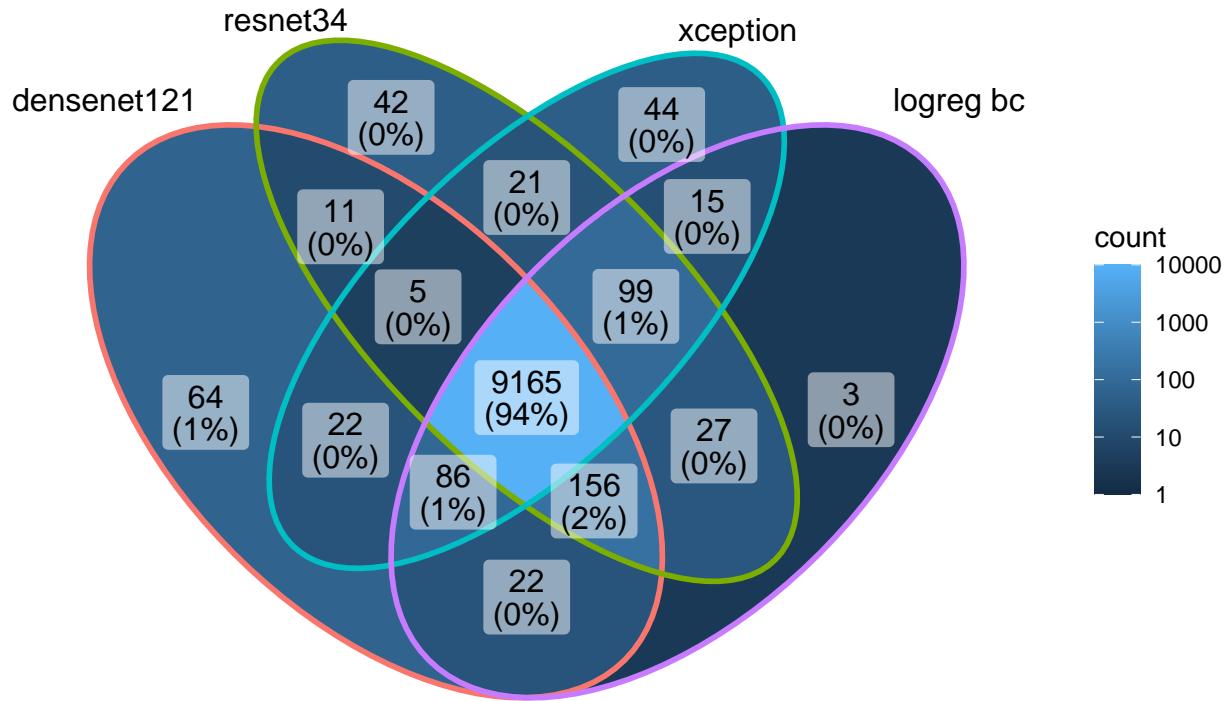


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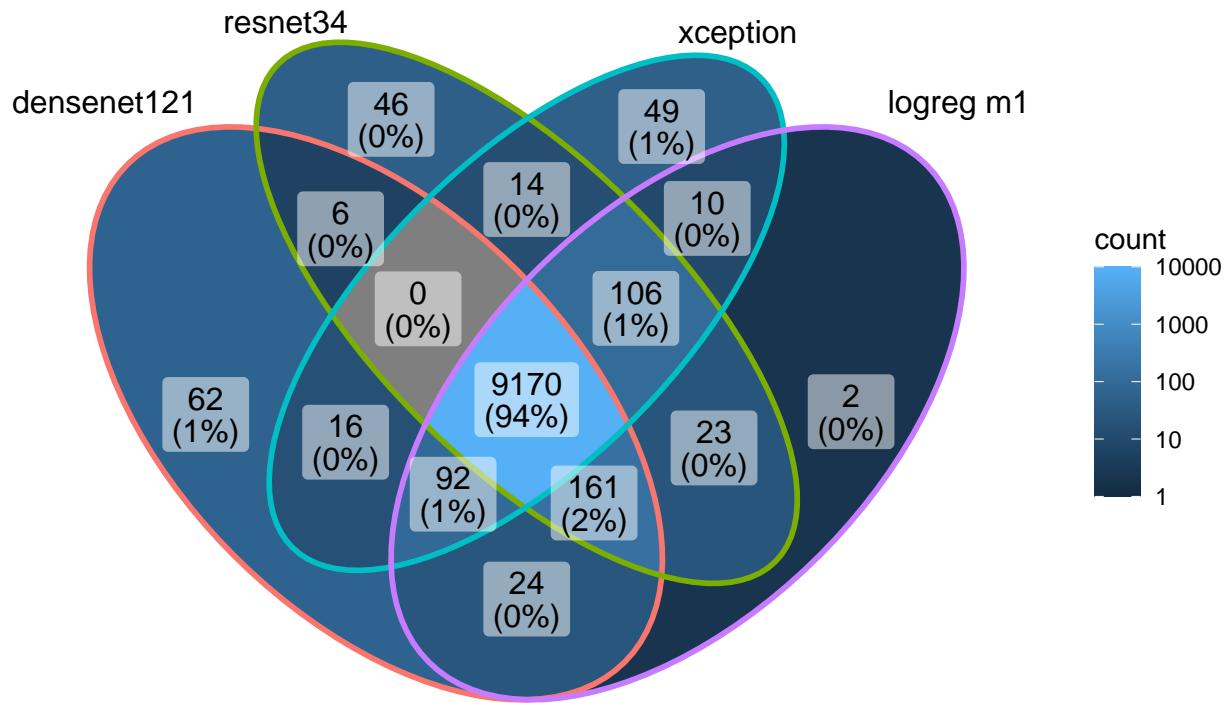


vt – replication 10

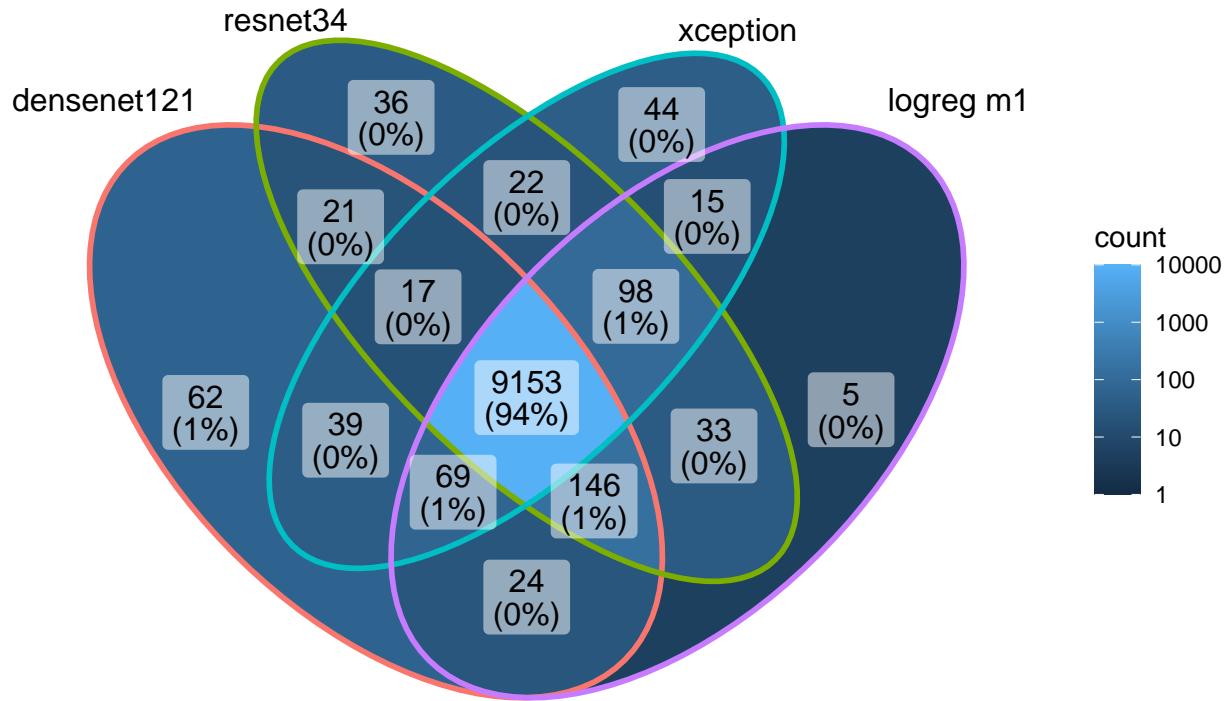


Warning: Transformation introduced infinite values in discrete y-axis

tt – replication 10

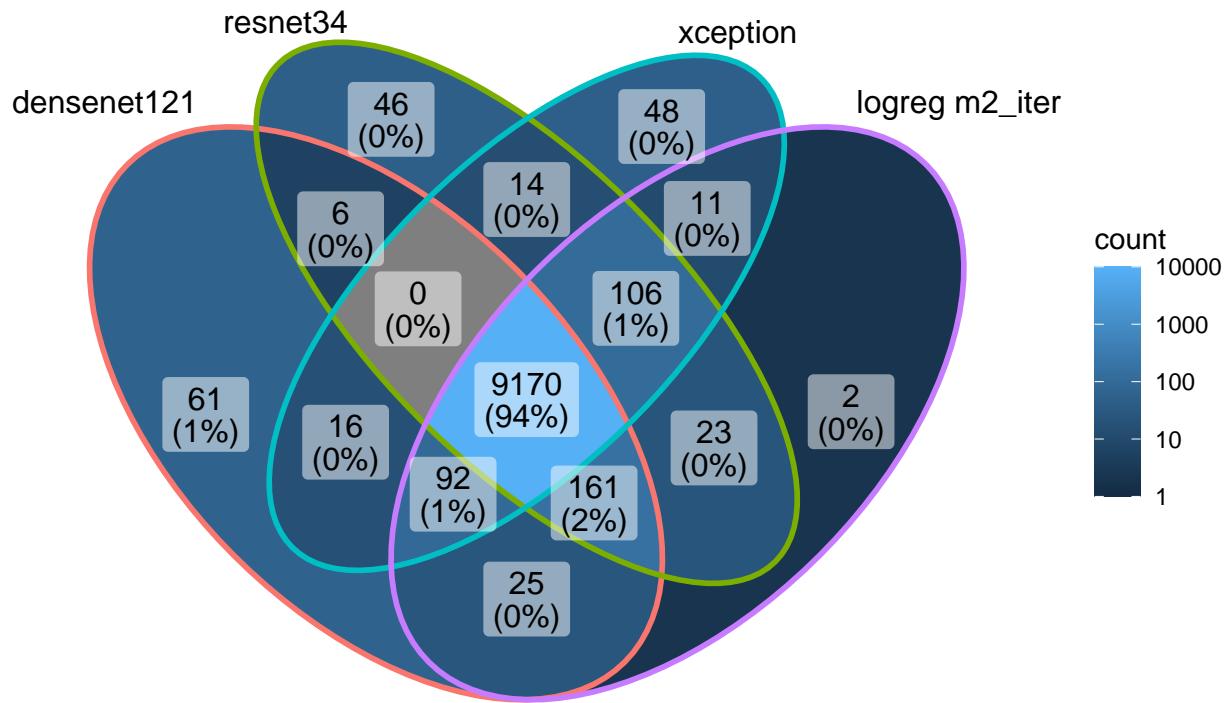


vt – replication 10

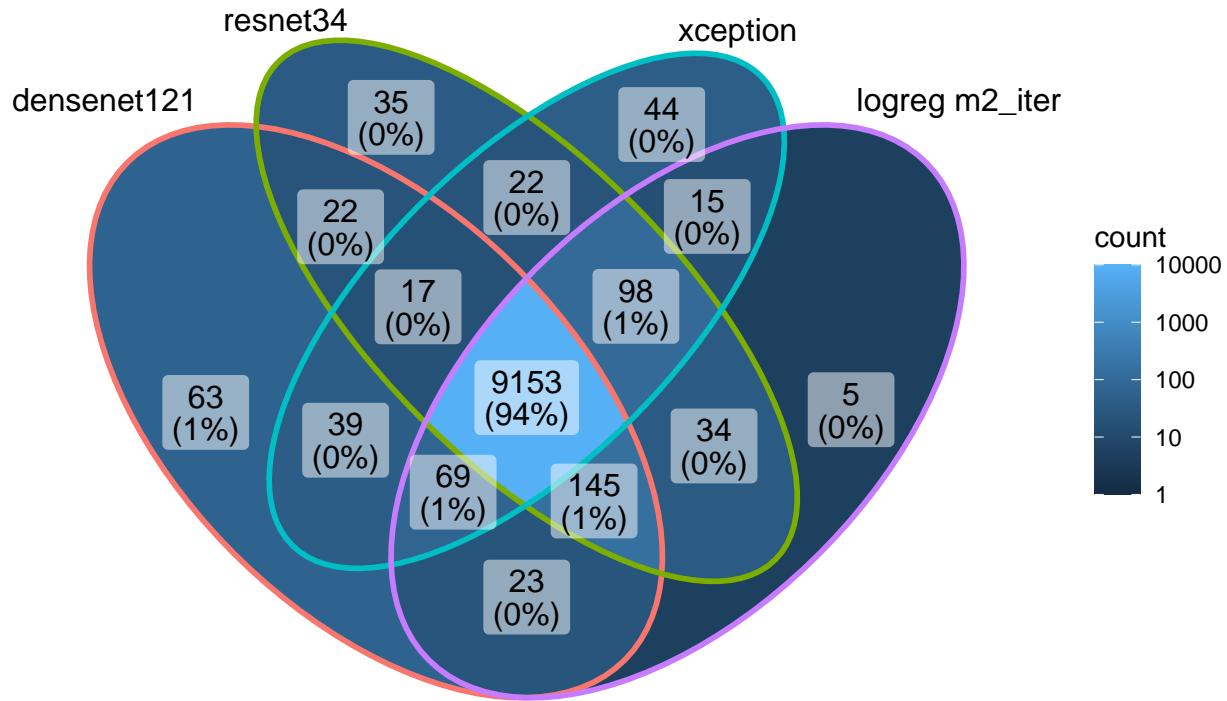


Warning: Transformation introduced infinite values in discrete y-axis

tt – replication 10

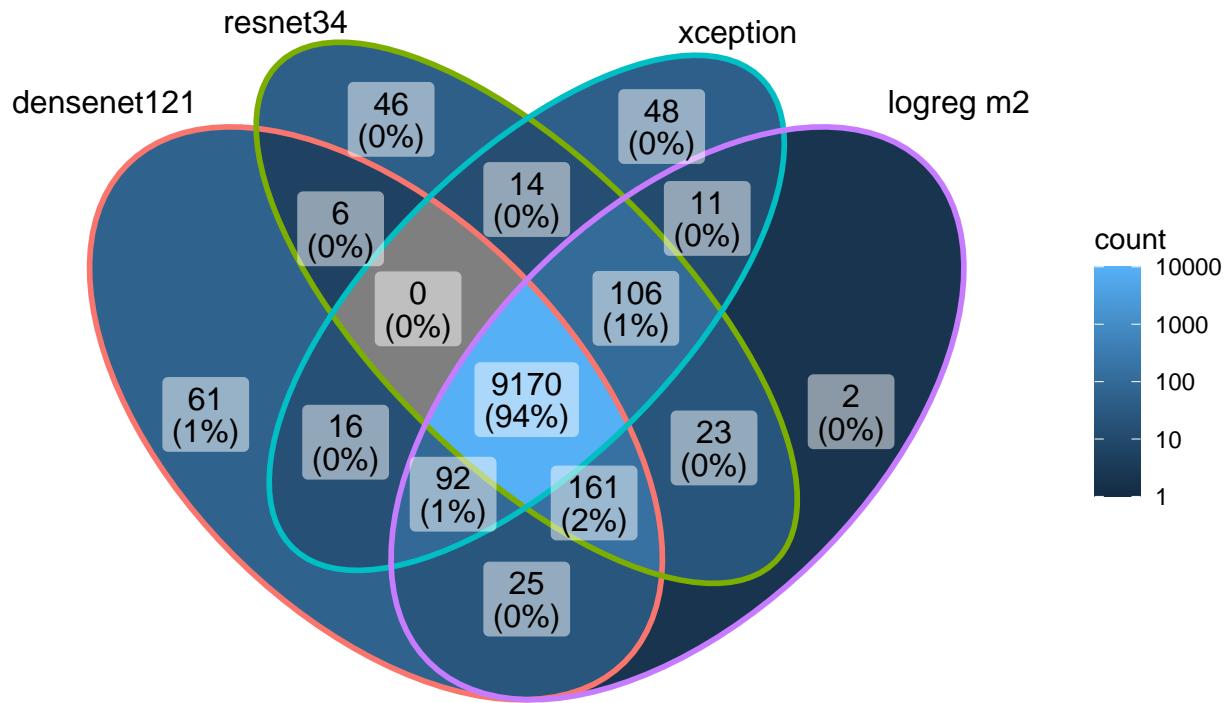


vt – replication 10

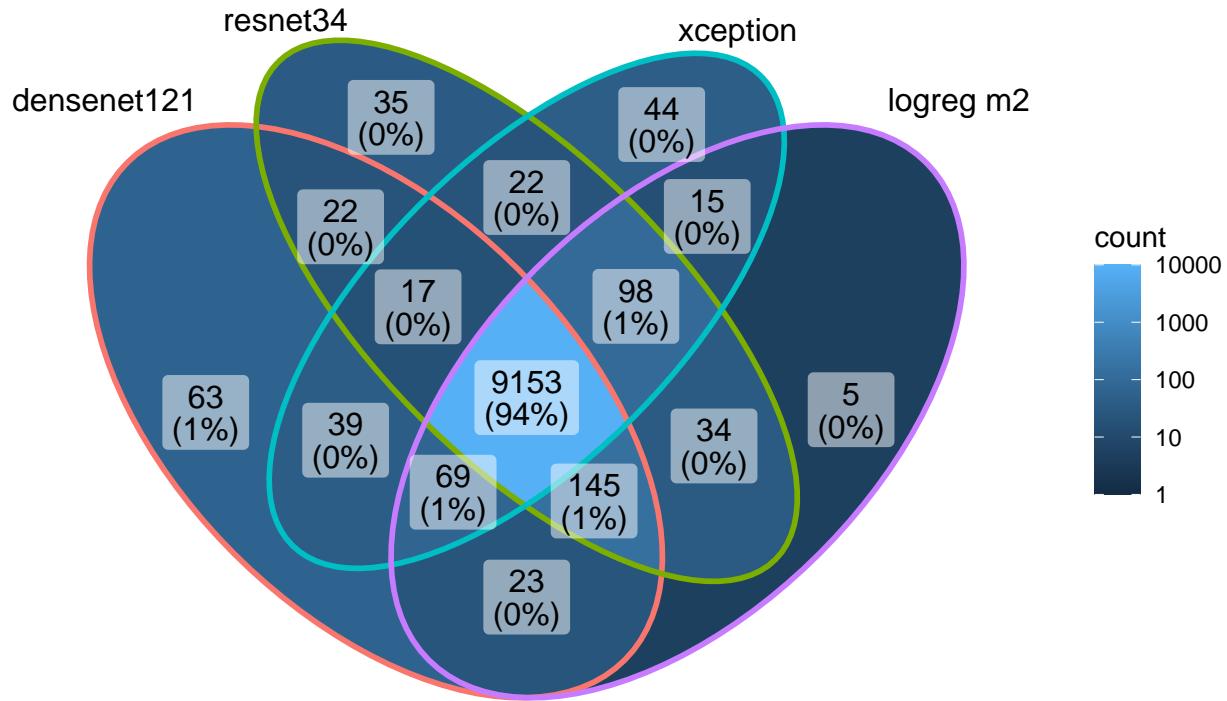


Warning: Transformation introduced infinite values in discrete y-axis

tt – replication 10

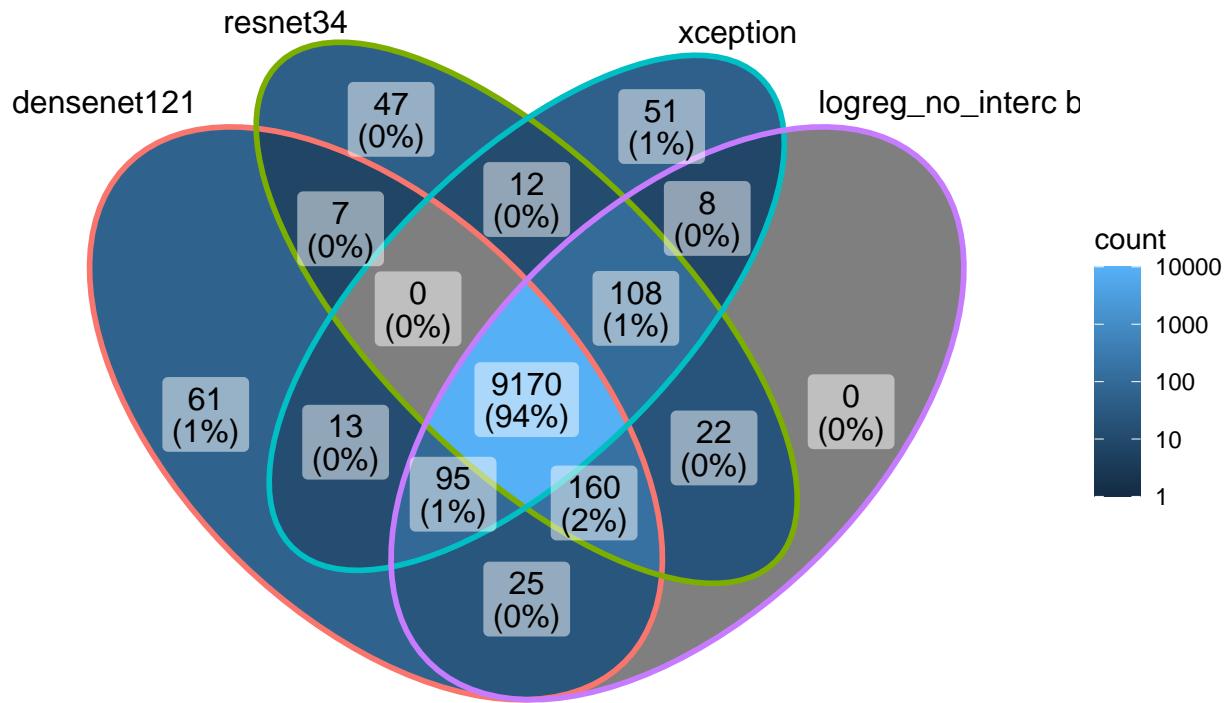


vt – replication 10



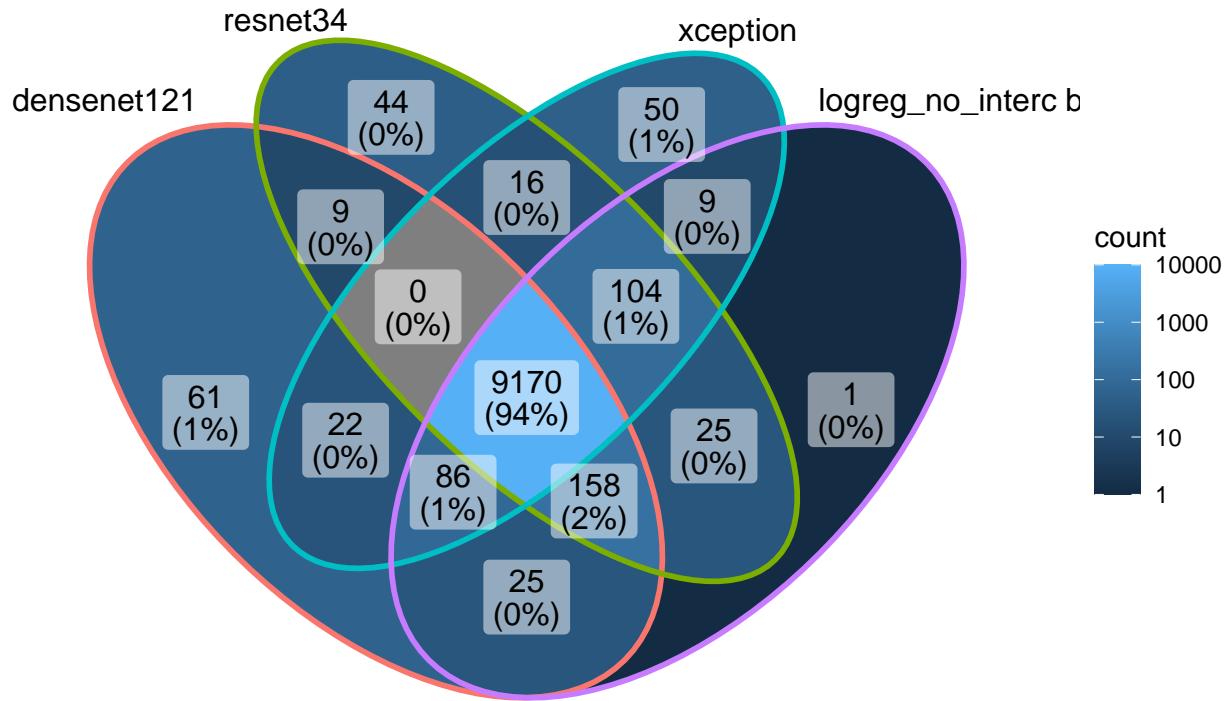
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tt – replication 10



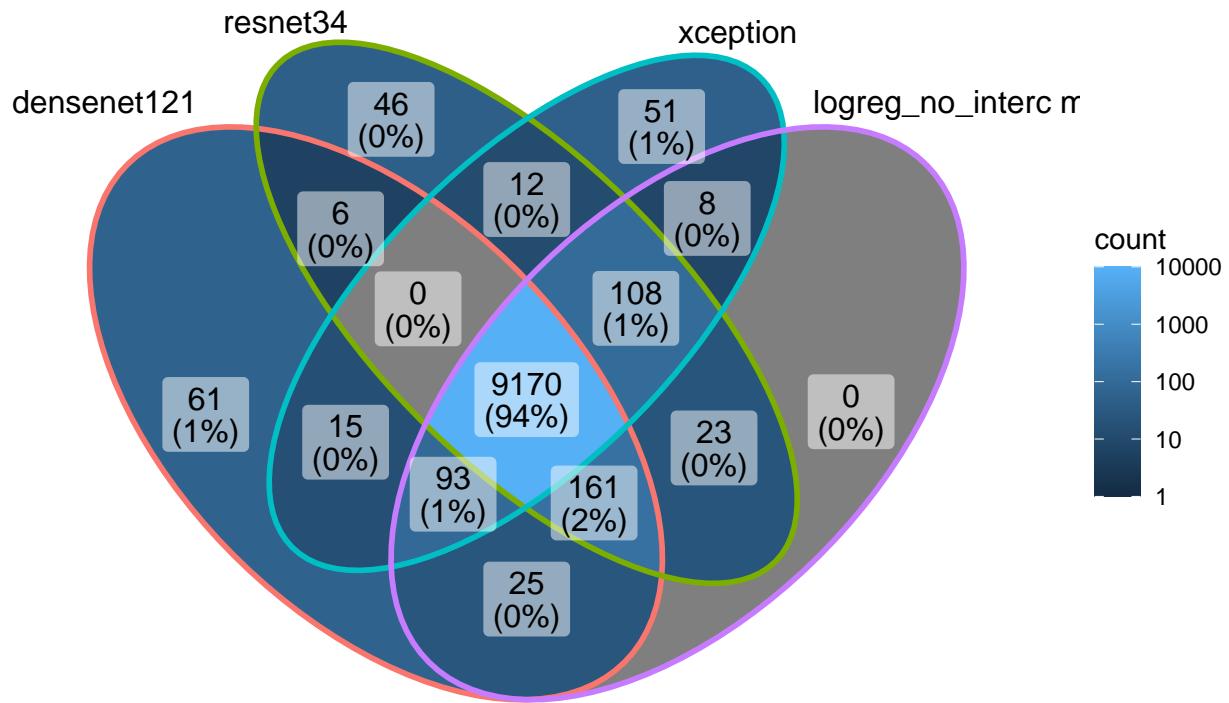
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vt – replication 10

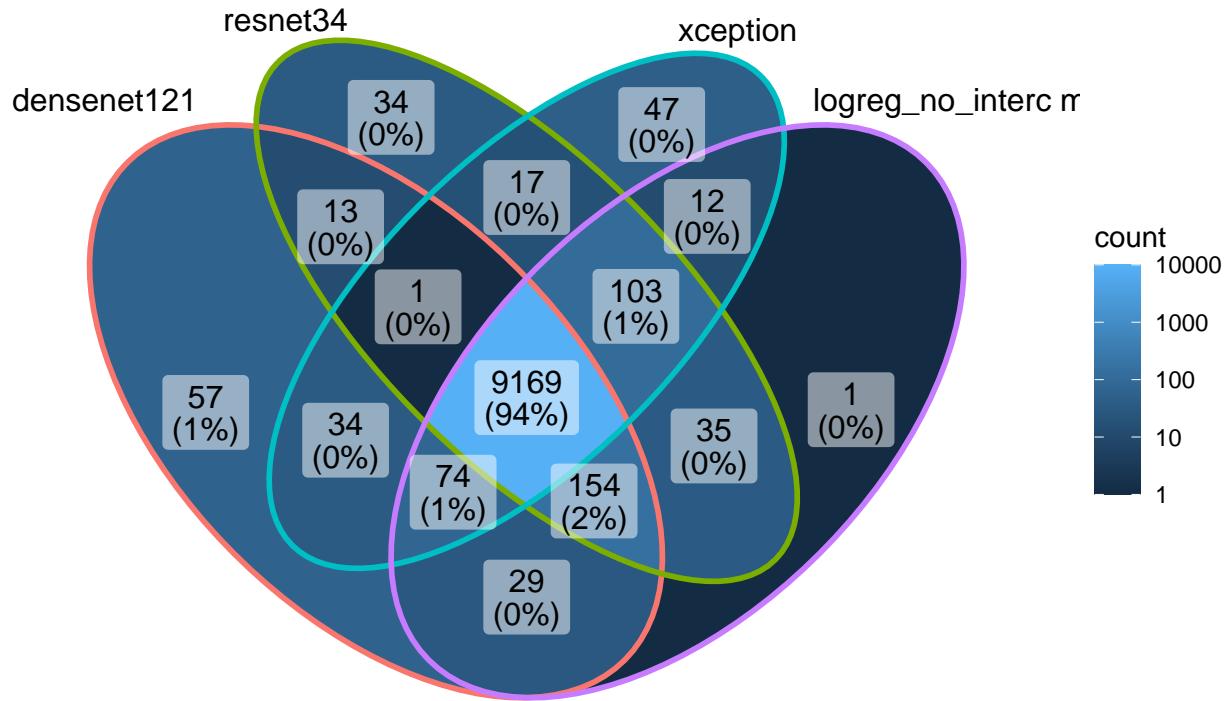


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tt – replication 10

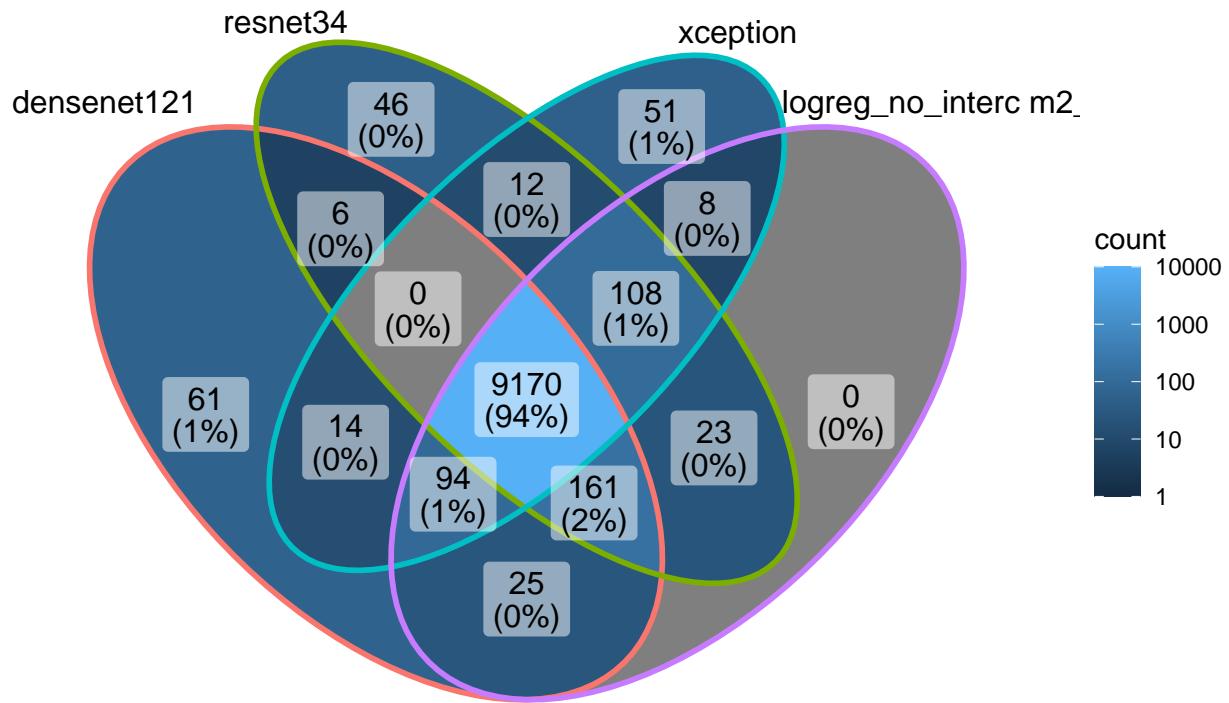


vt – replication 10

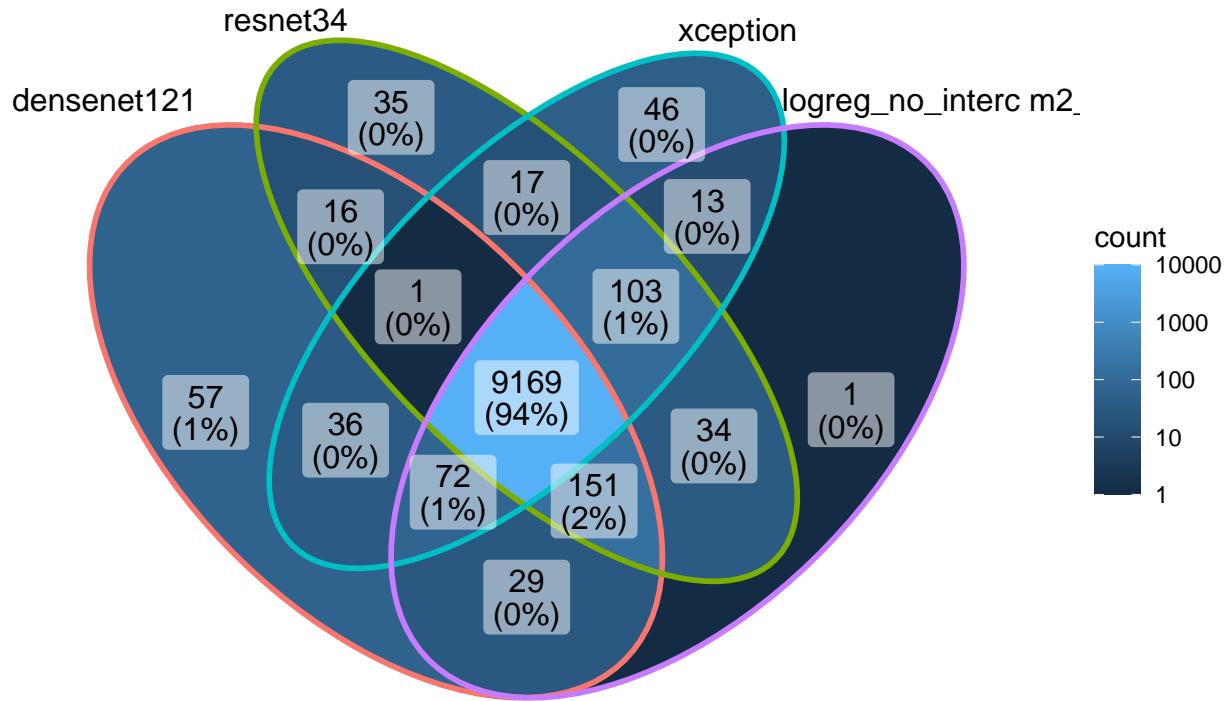


Warning: Transformation introduced infinite values in discrete y-axis

tt – replication 10

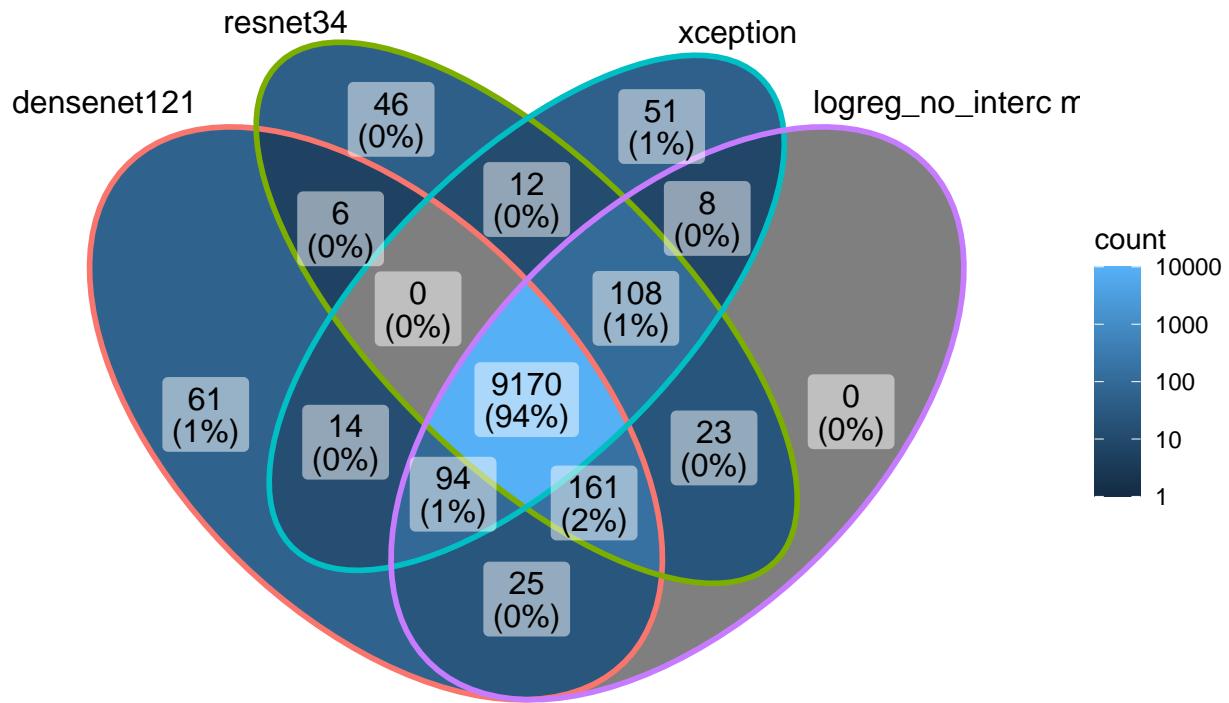


vt – replication 10

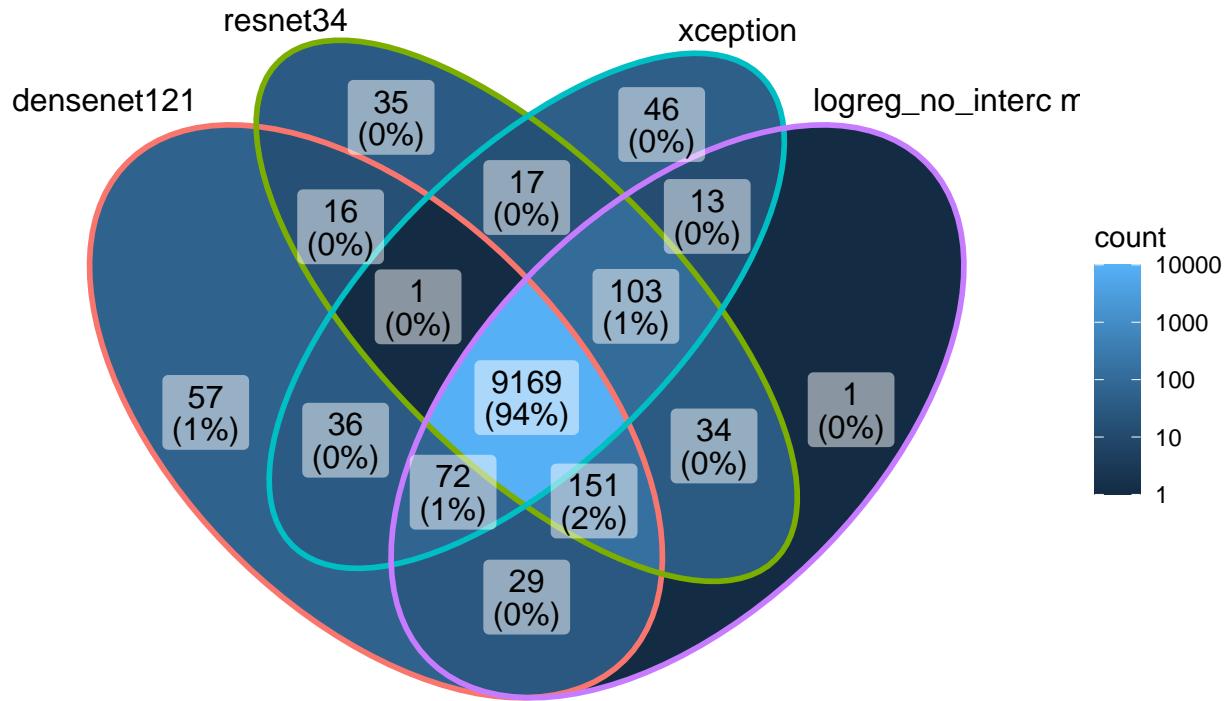


Warning: Transformation introduced infinite values in discrete y-axis

tt – replication 10

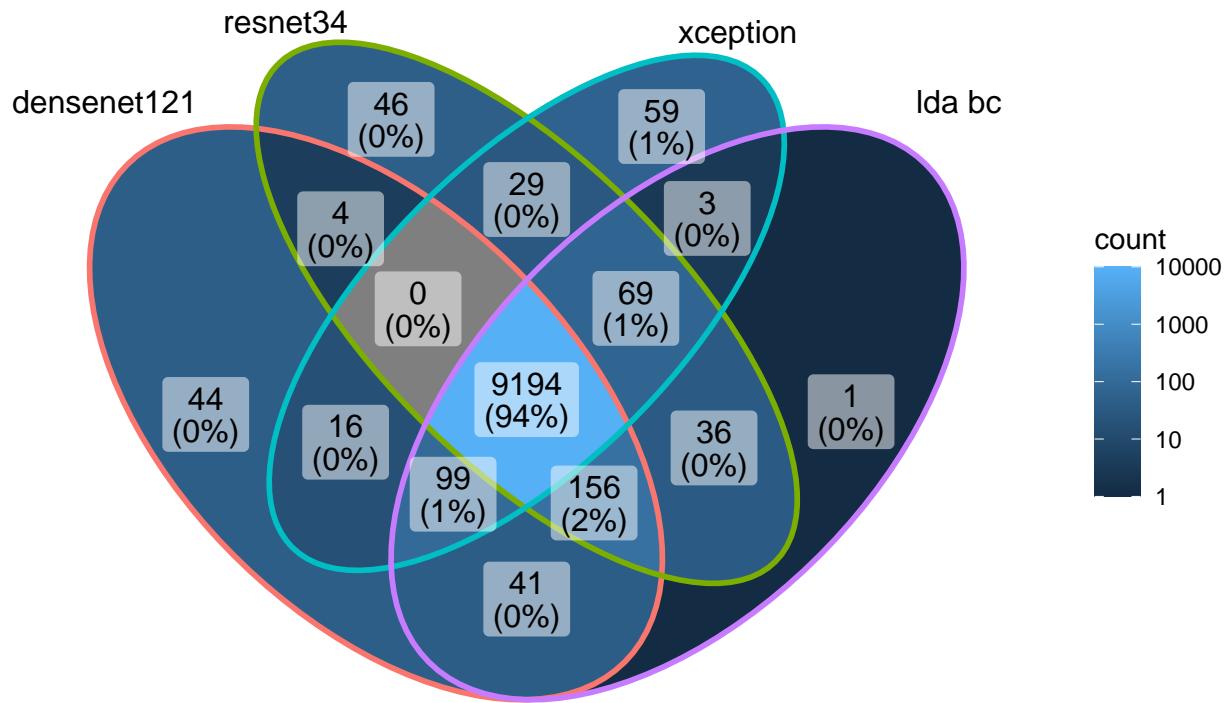


vt – replication 10



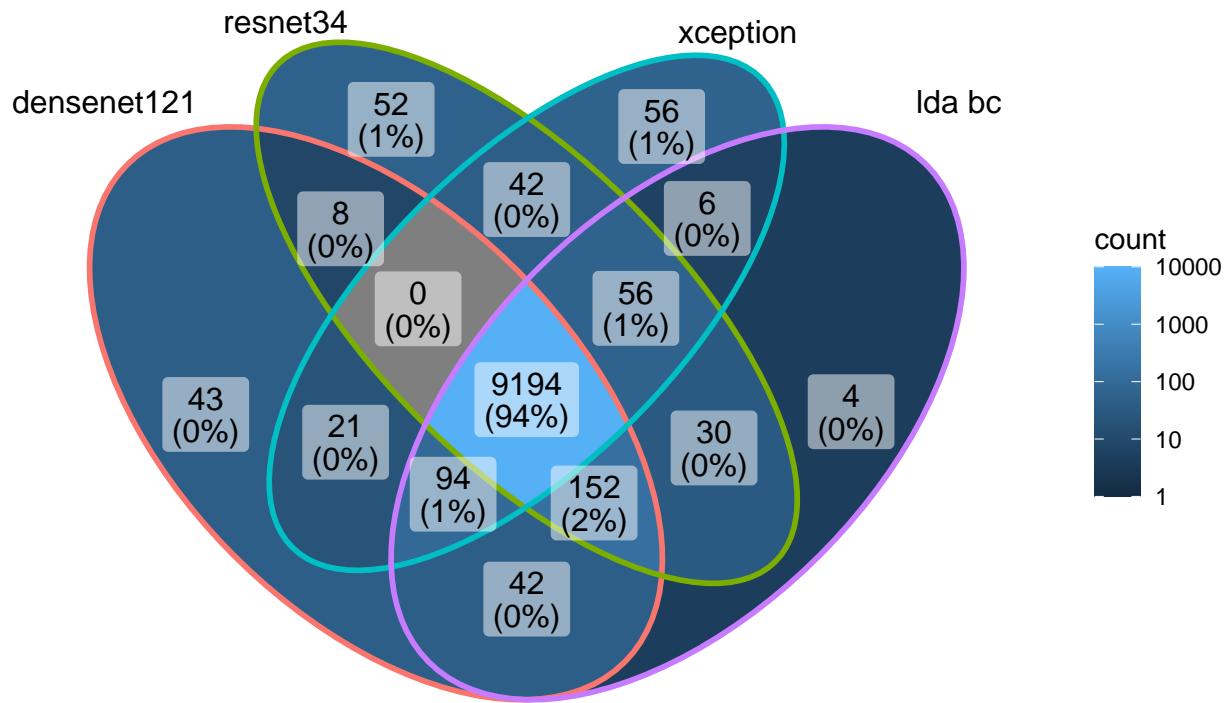
Warning: Transformation introduced infinite values in discrete y-axis

tt – replication 11



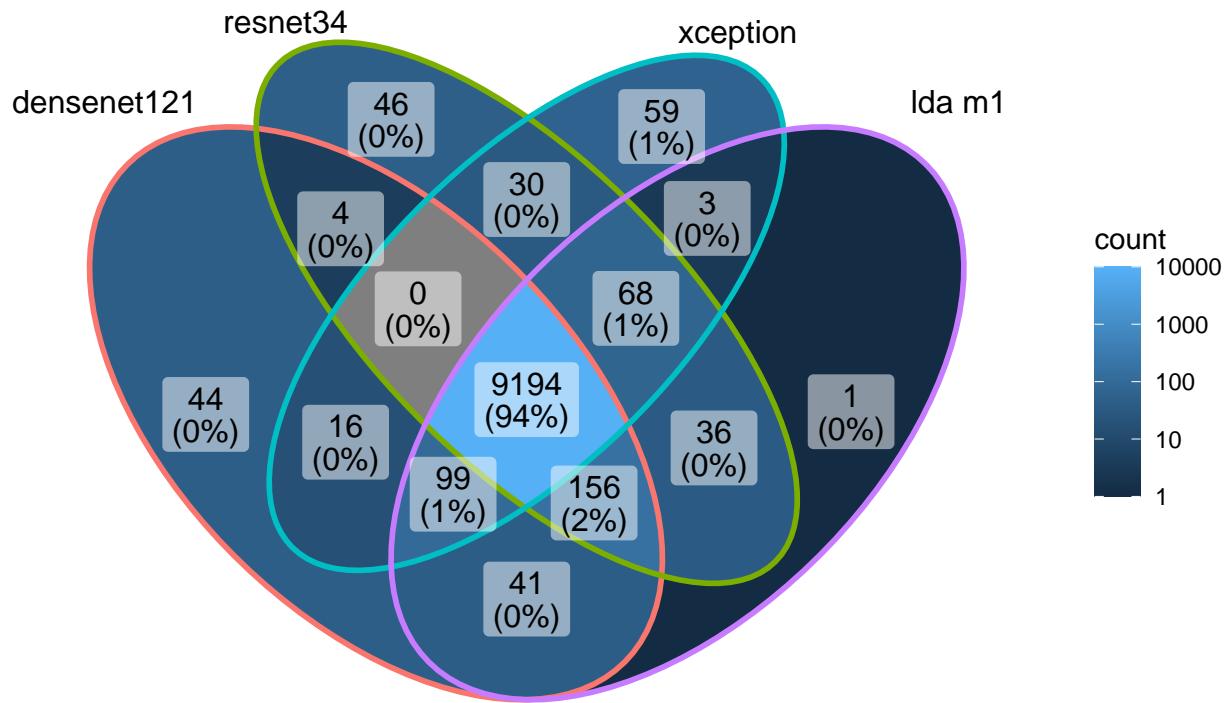
Warning: Transformation introduced infinite values in discrete y-axis

vt – replication 11



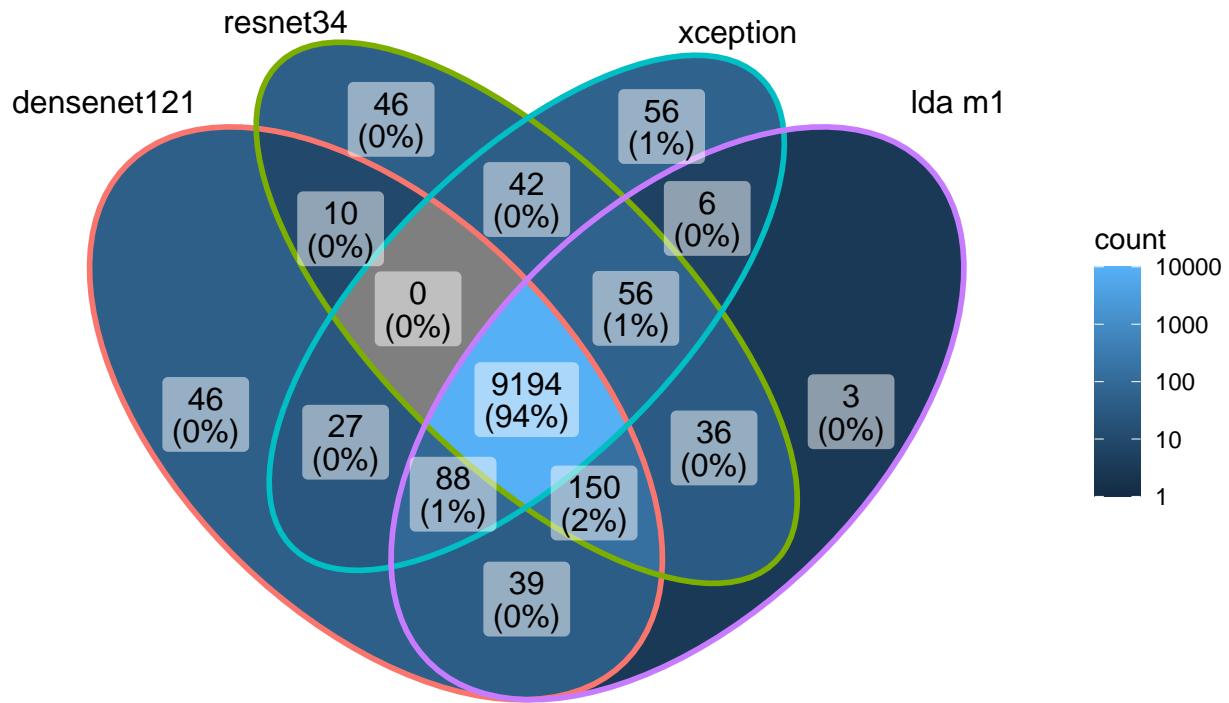
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tt – replication 11



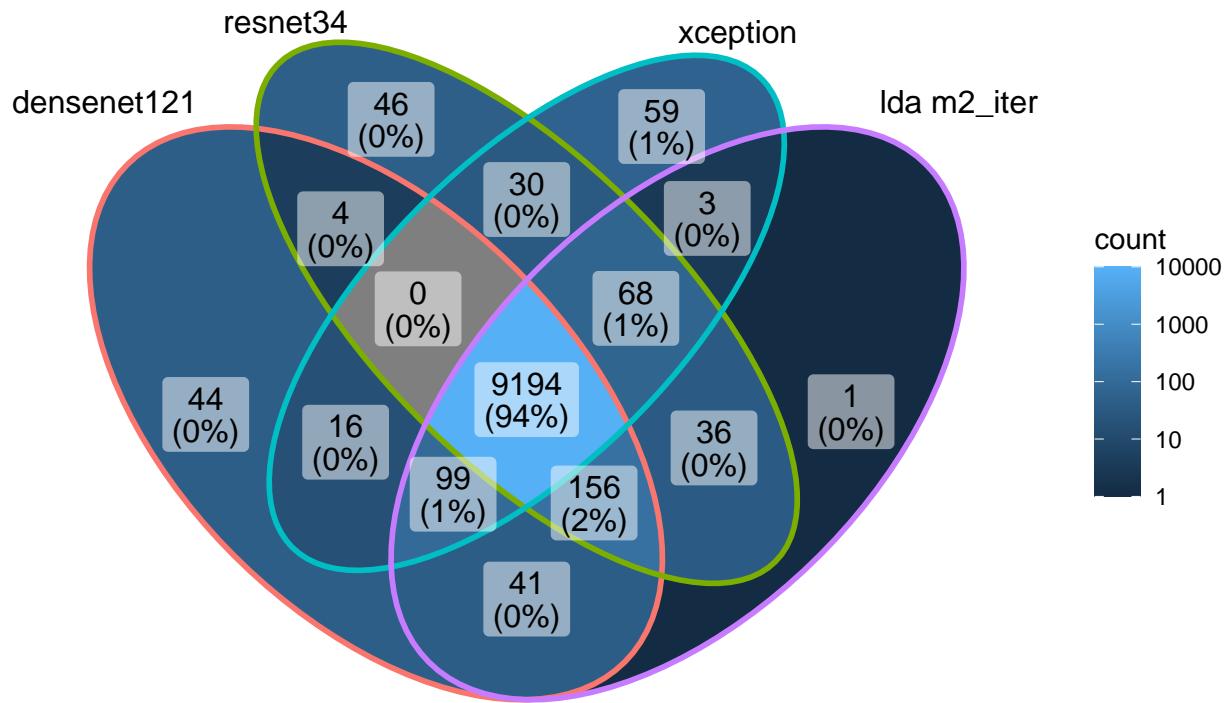
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vt – replication 11



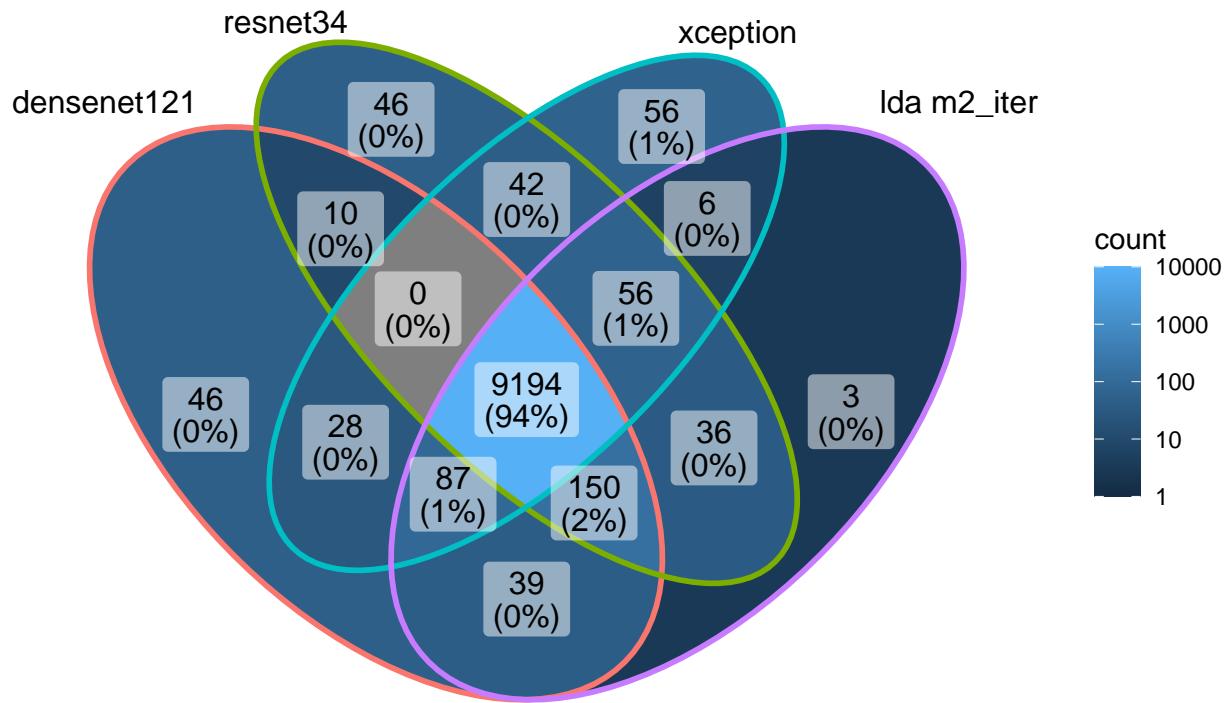
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tt – replication 11



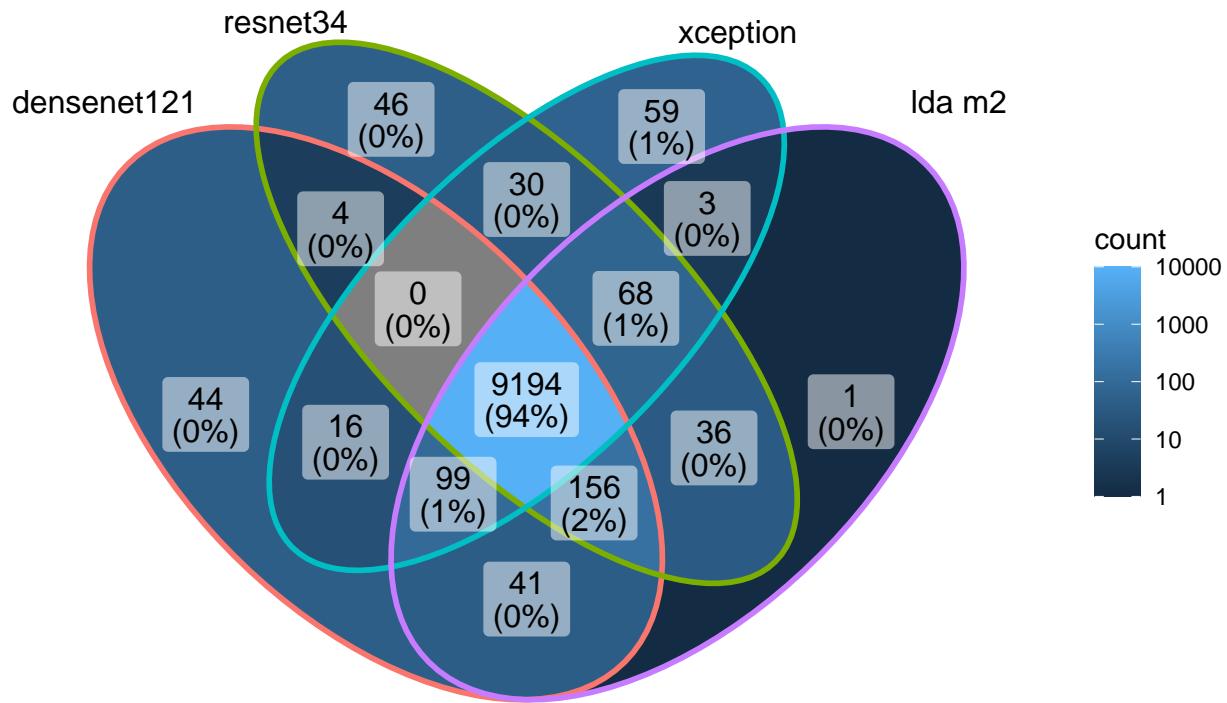
Warning: Transformation introduced infinite values in discrete y-axis

vt – replication 11



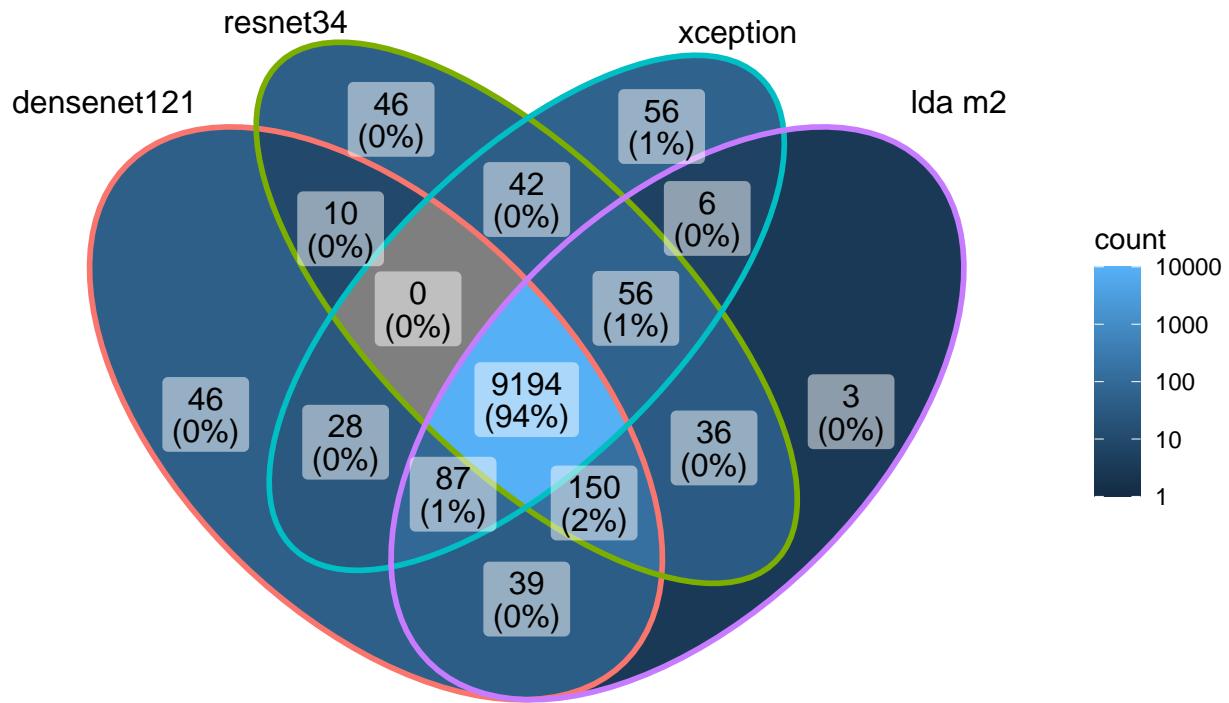
Warning: Transformation introduced infinite values in discrete y-axis

tt – replication 11



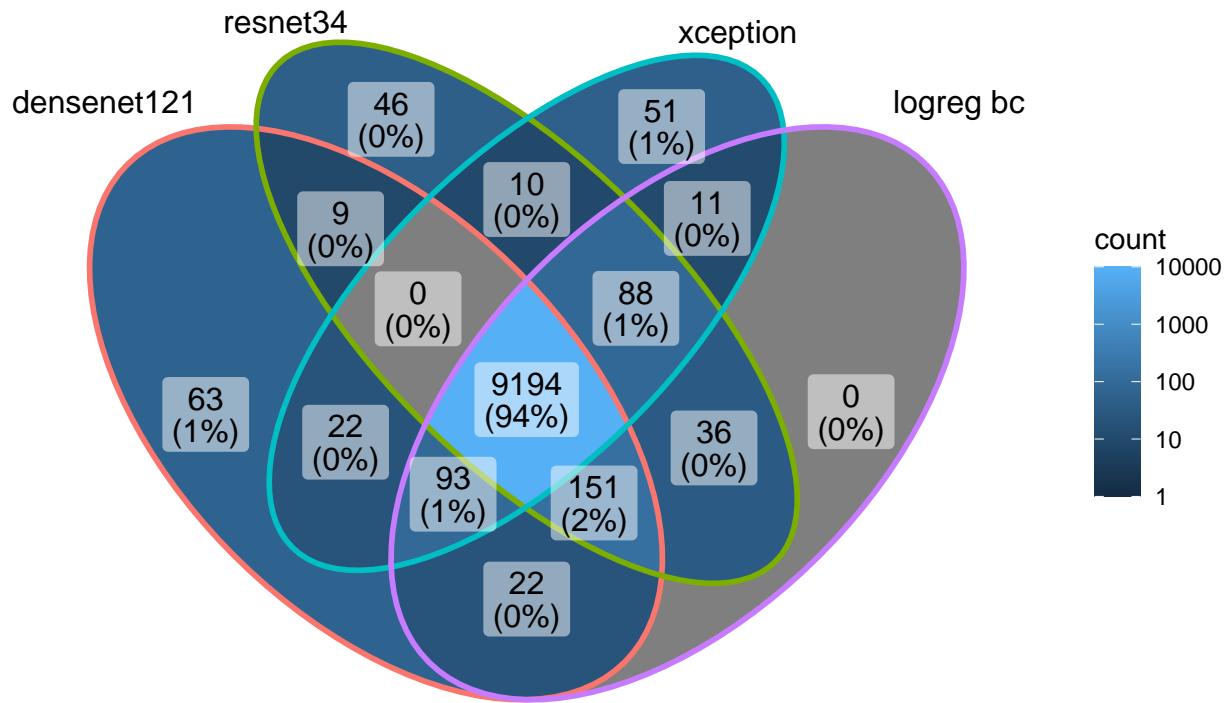
Warning: Transformation introduced infinite values in discrete y-axis

vt – replication 11

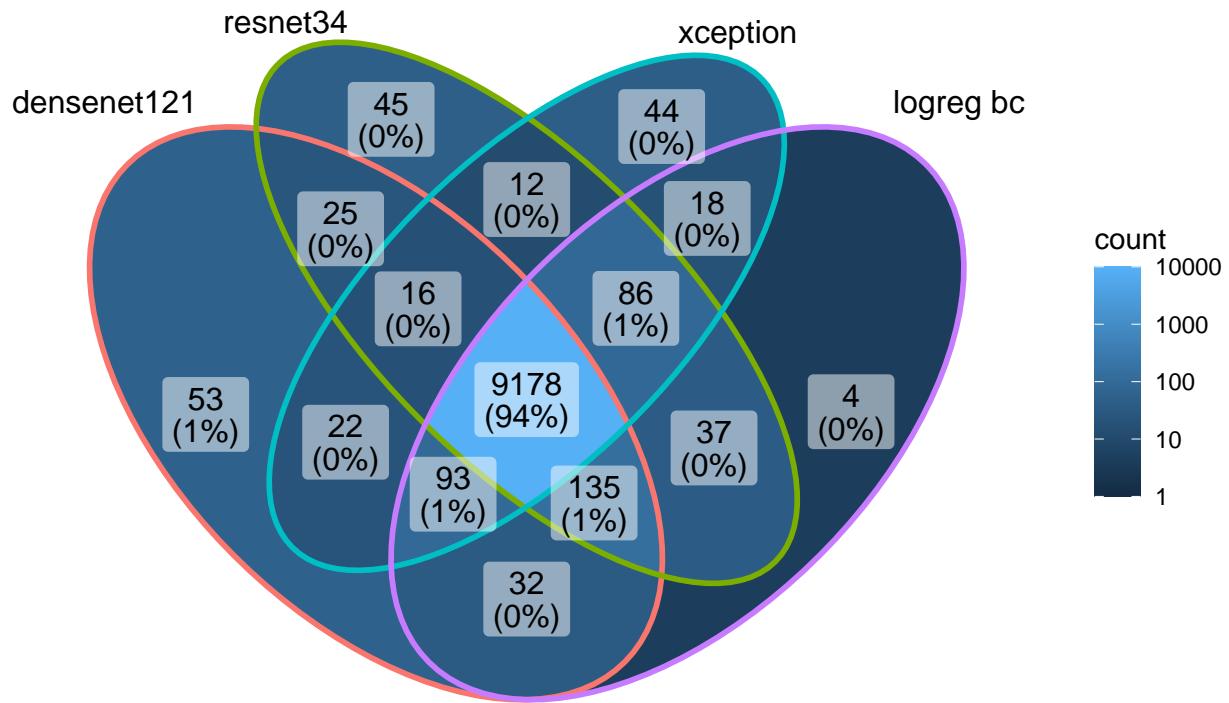


Warning: Transformation introduced infinite values in discrete y-axis

tt – replication 11

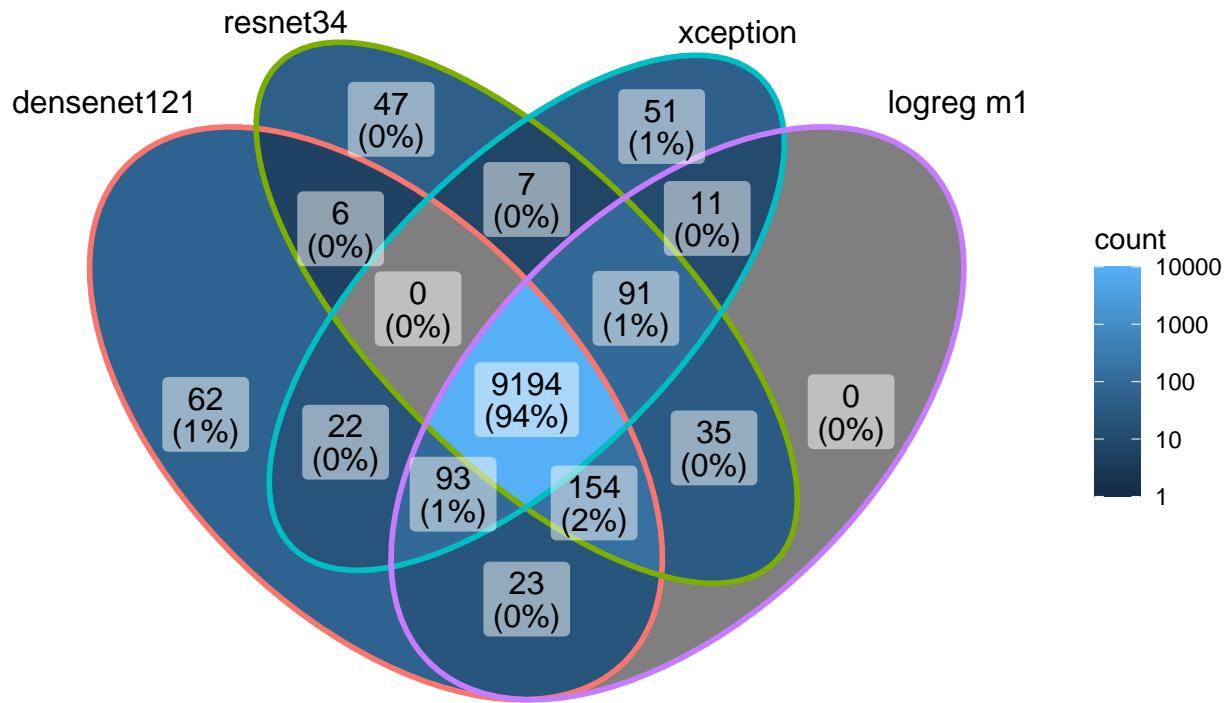


vt – replication 11

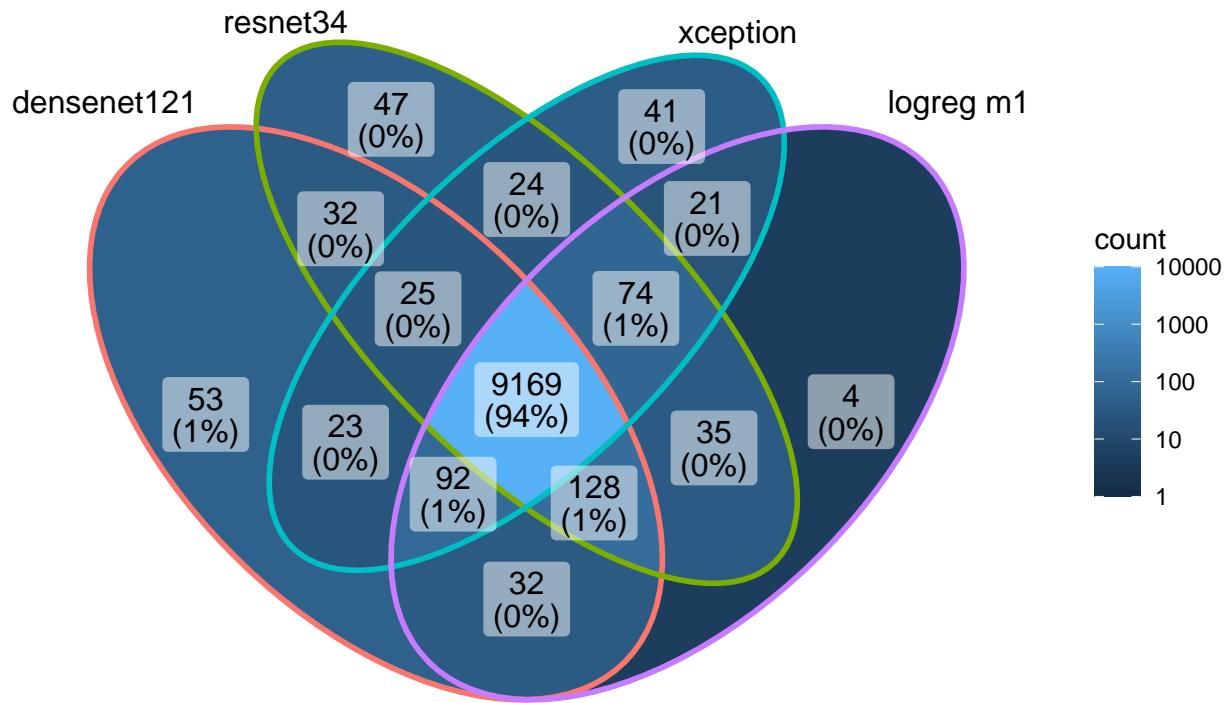


Warning: Transformation introduced infinite values in discrete y-axis

tt – replication 11

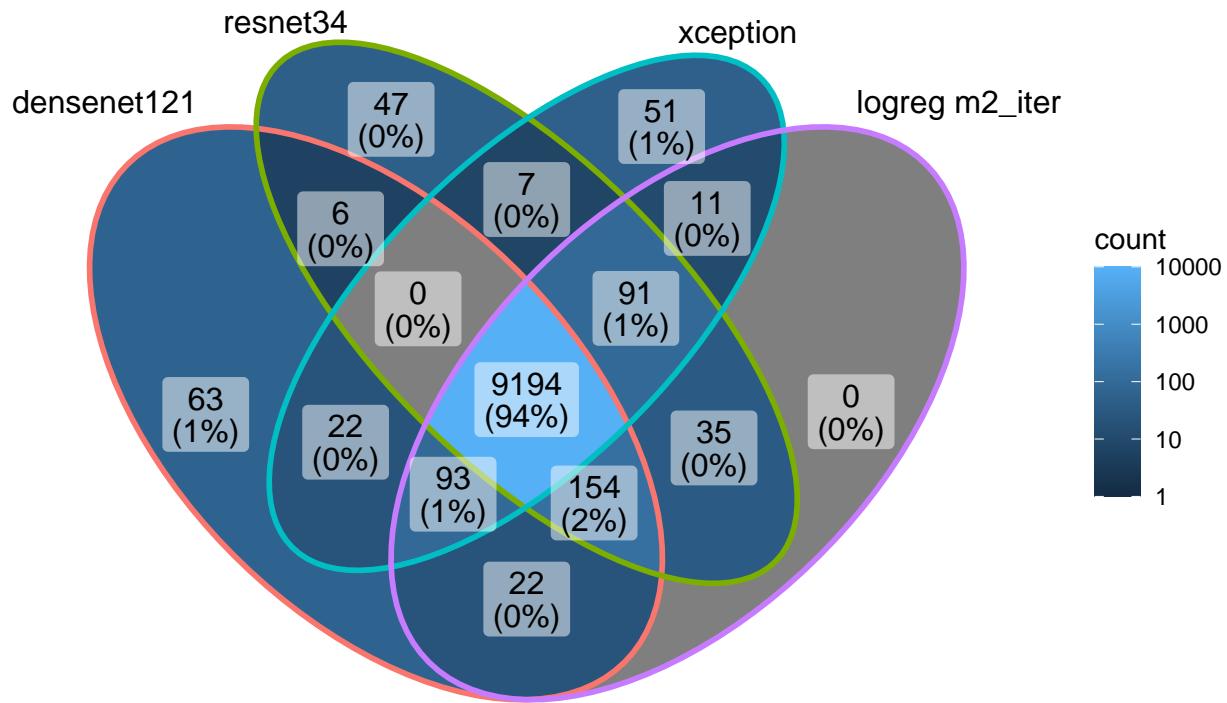


vt – replication 11

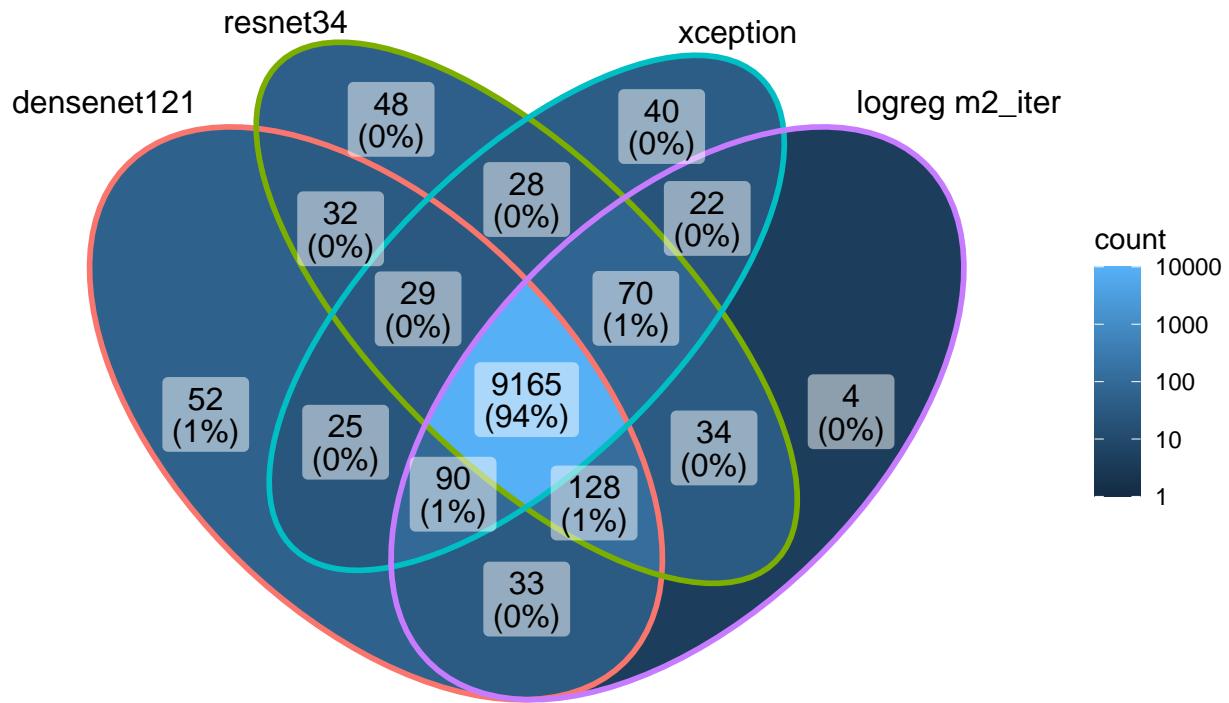


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tt – replication 11

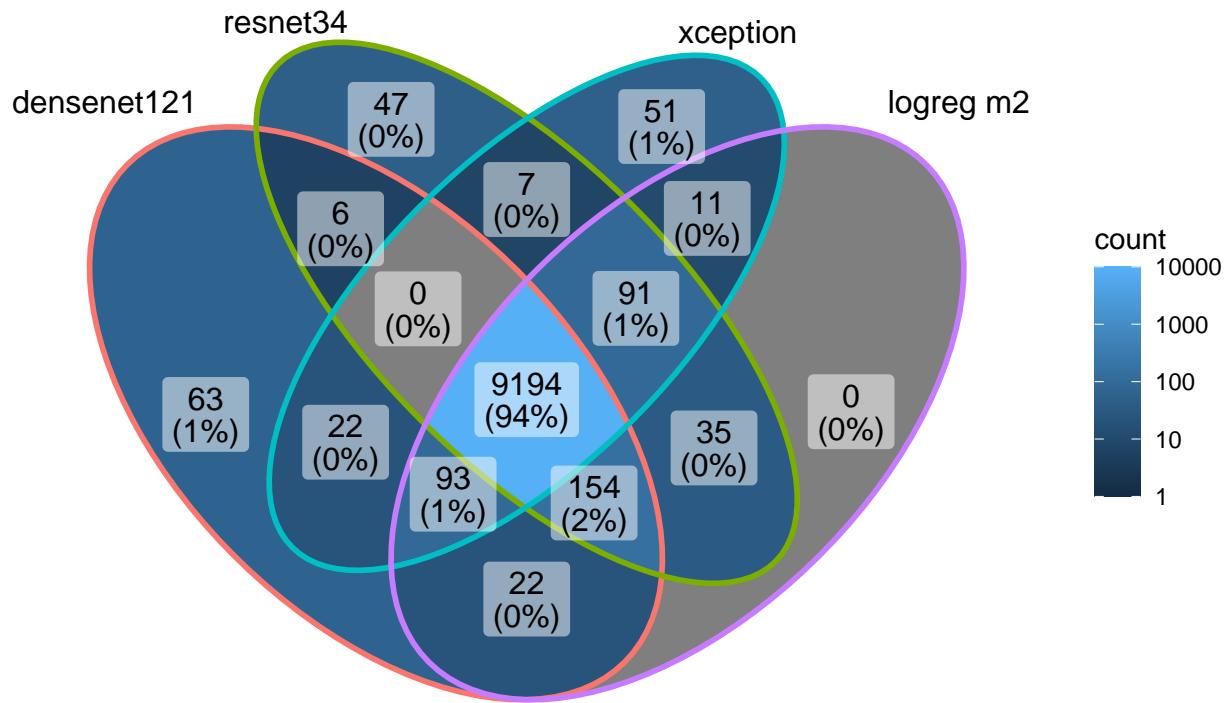


vt – replication 11

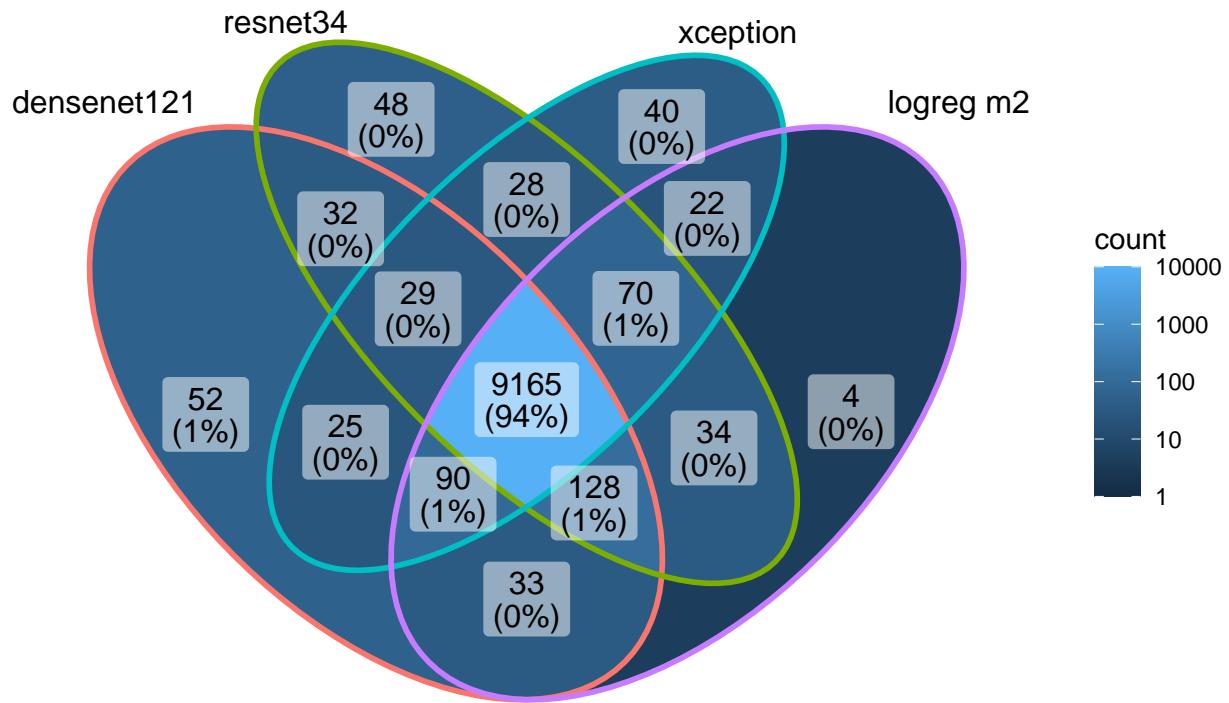


Warning: Transformation introduced infinite values in discrete y-axis

tt – replication 11

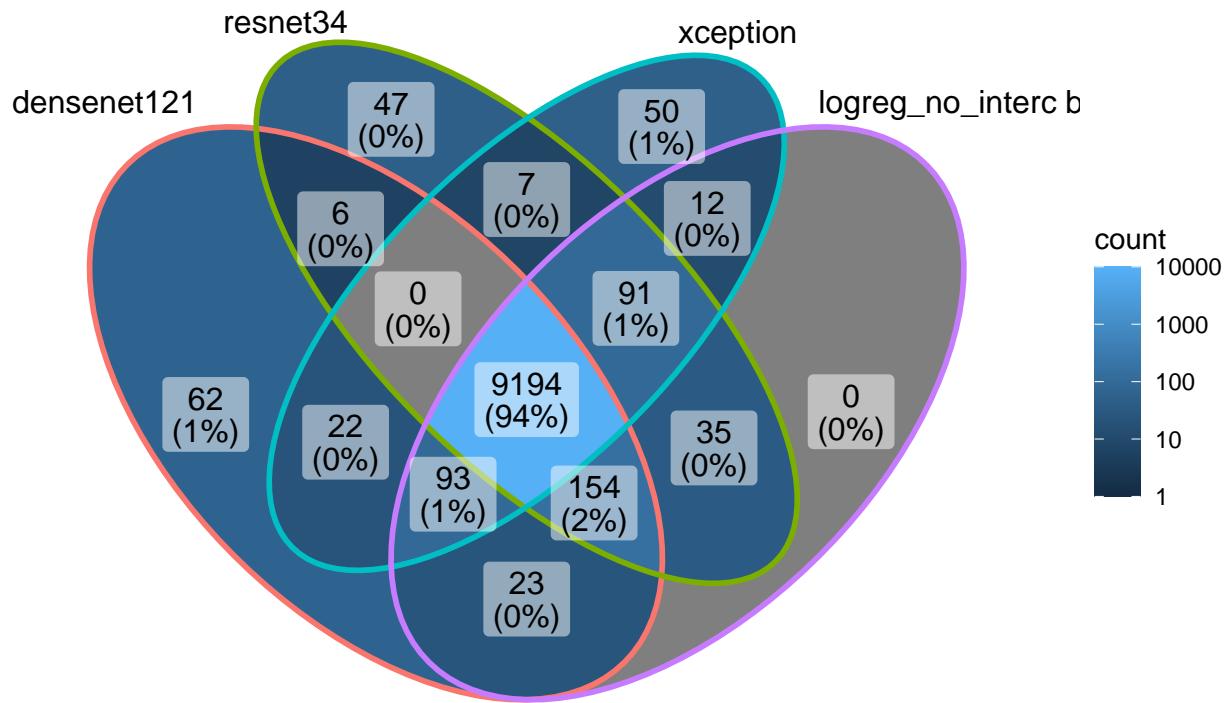


vt – replication 11



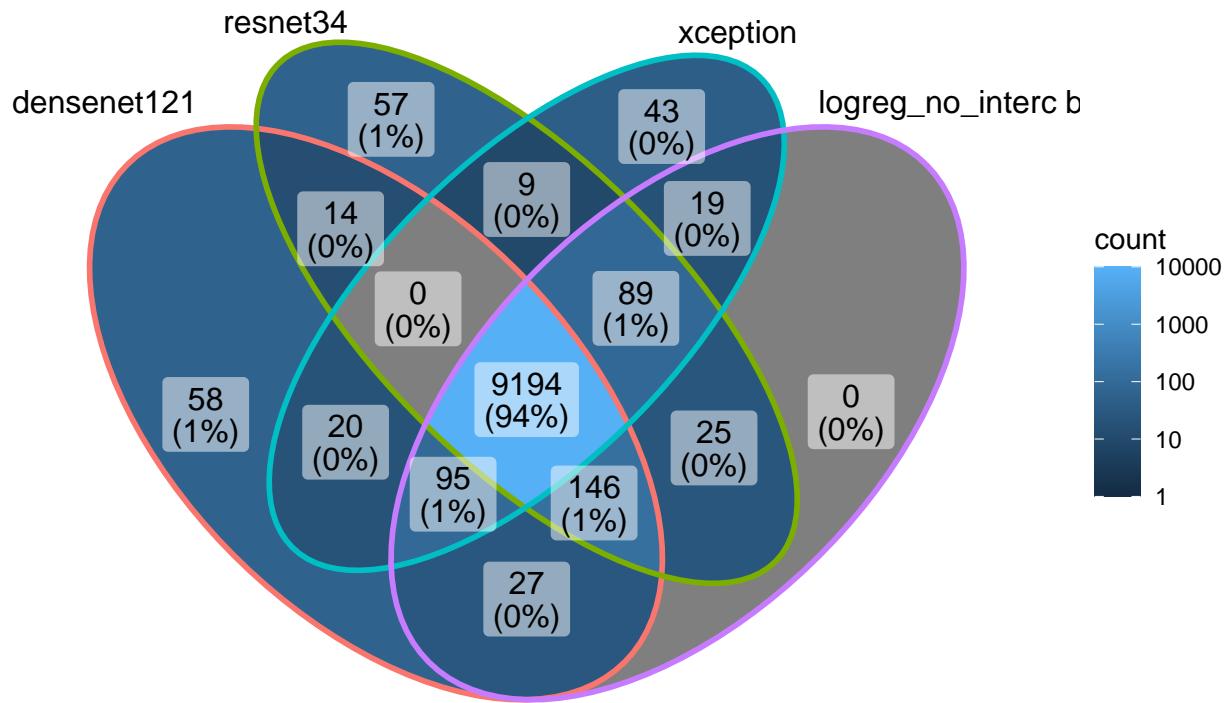
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tt – replication 11



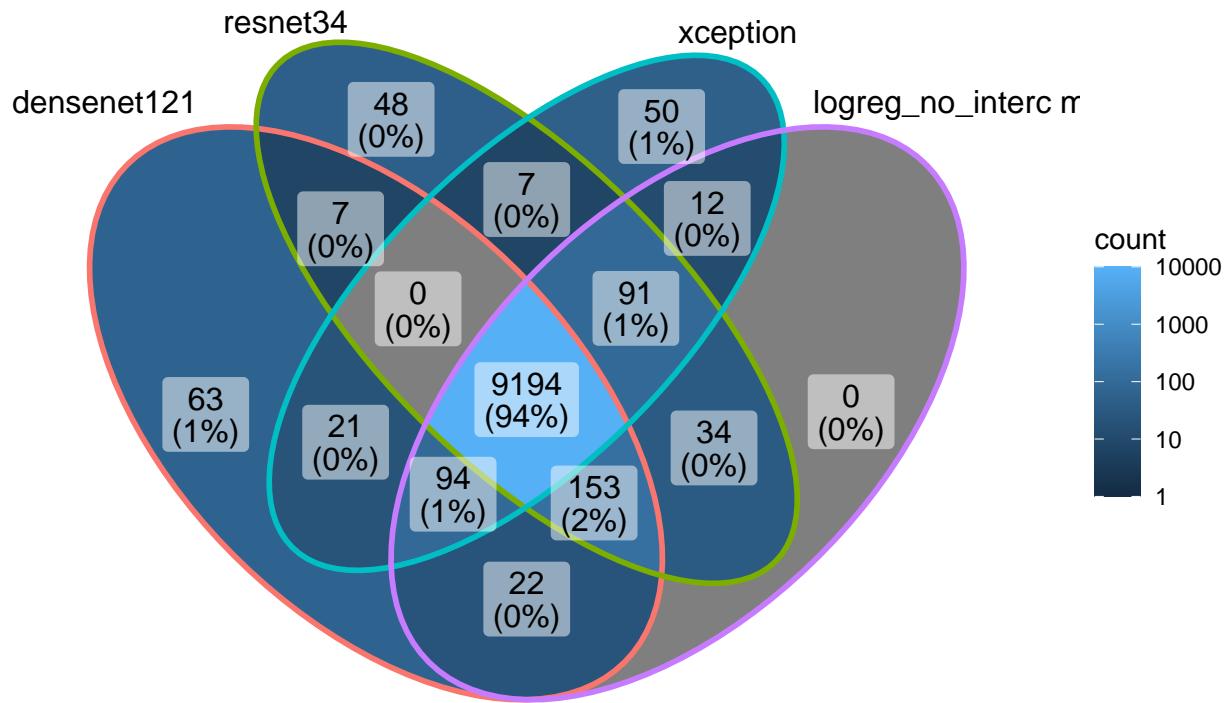
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vt – replication 11

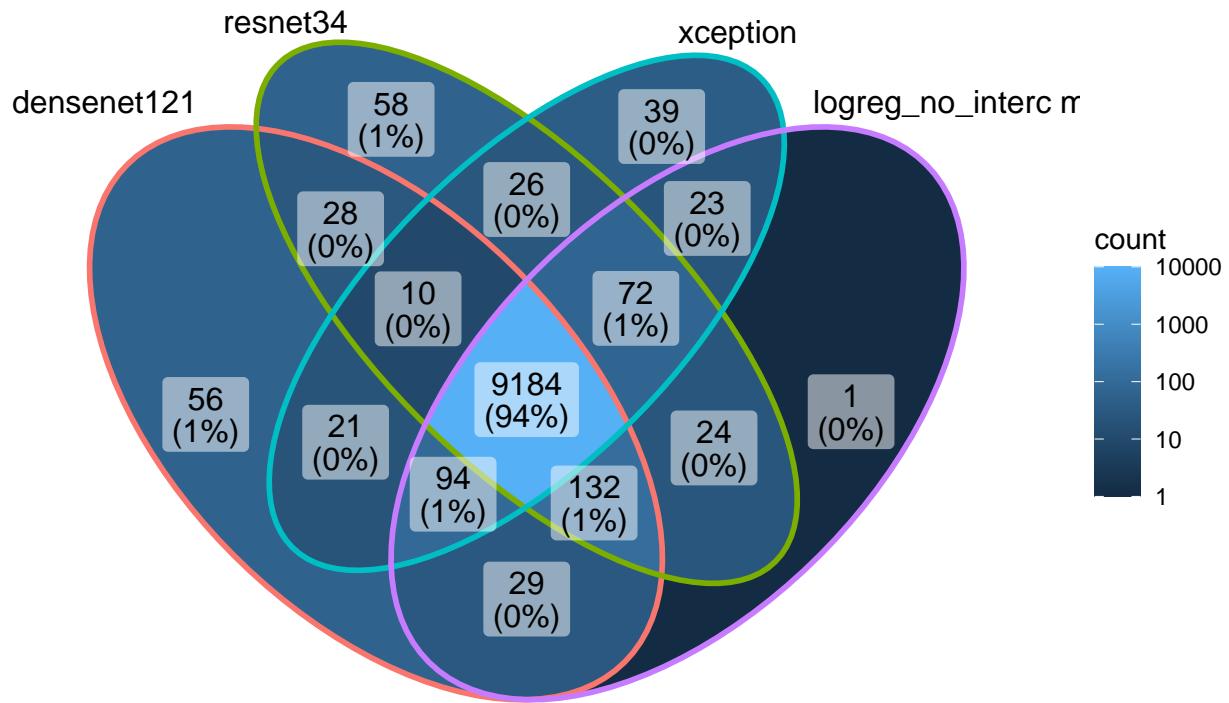


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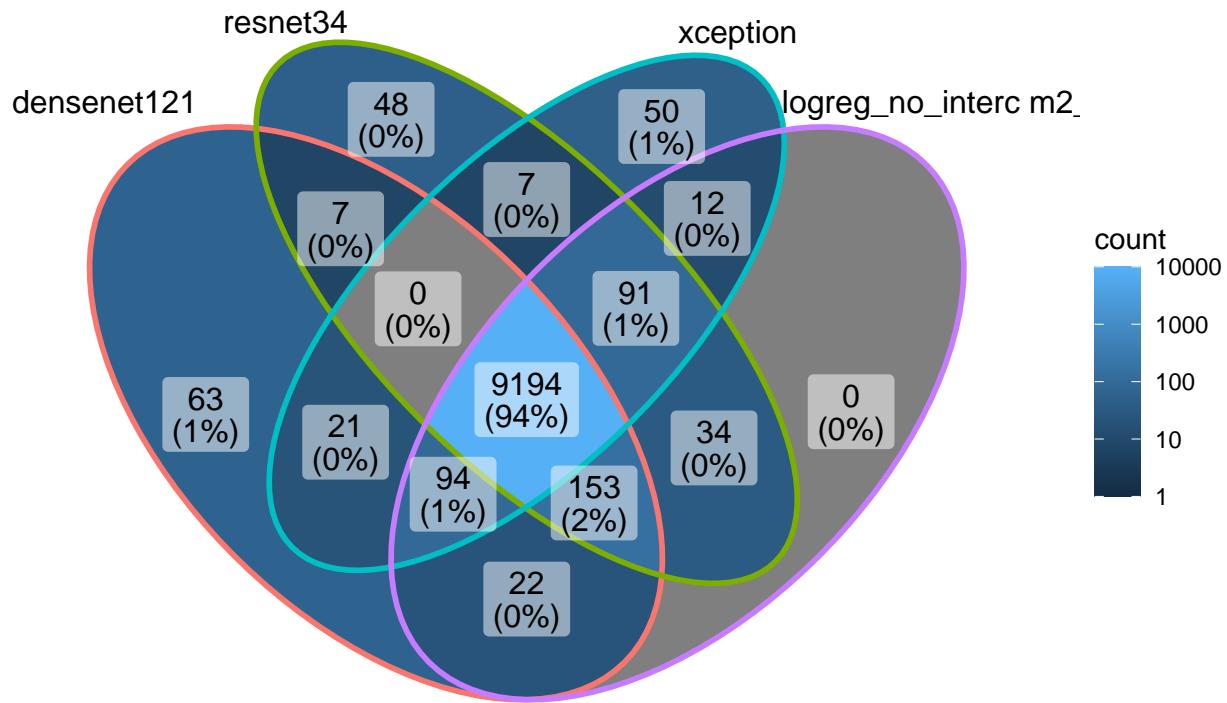


vt – replication 11

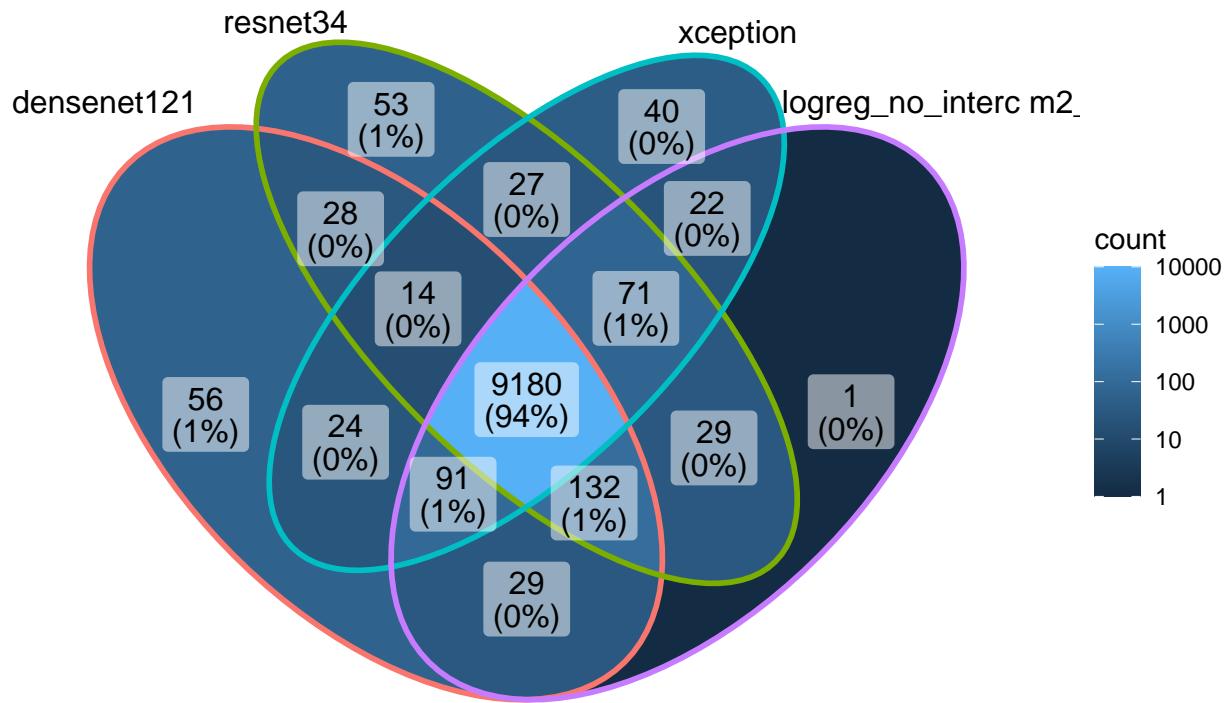


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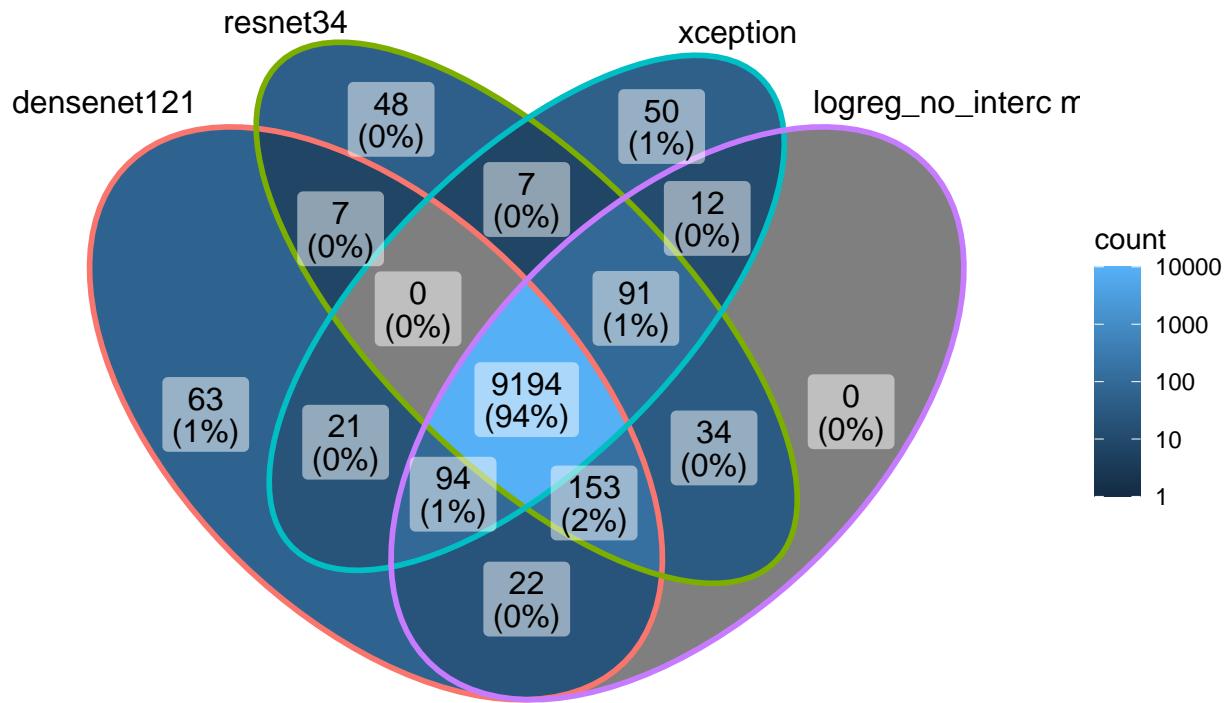


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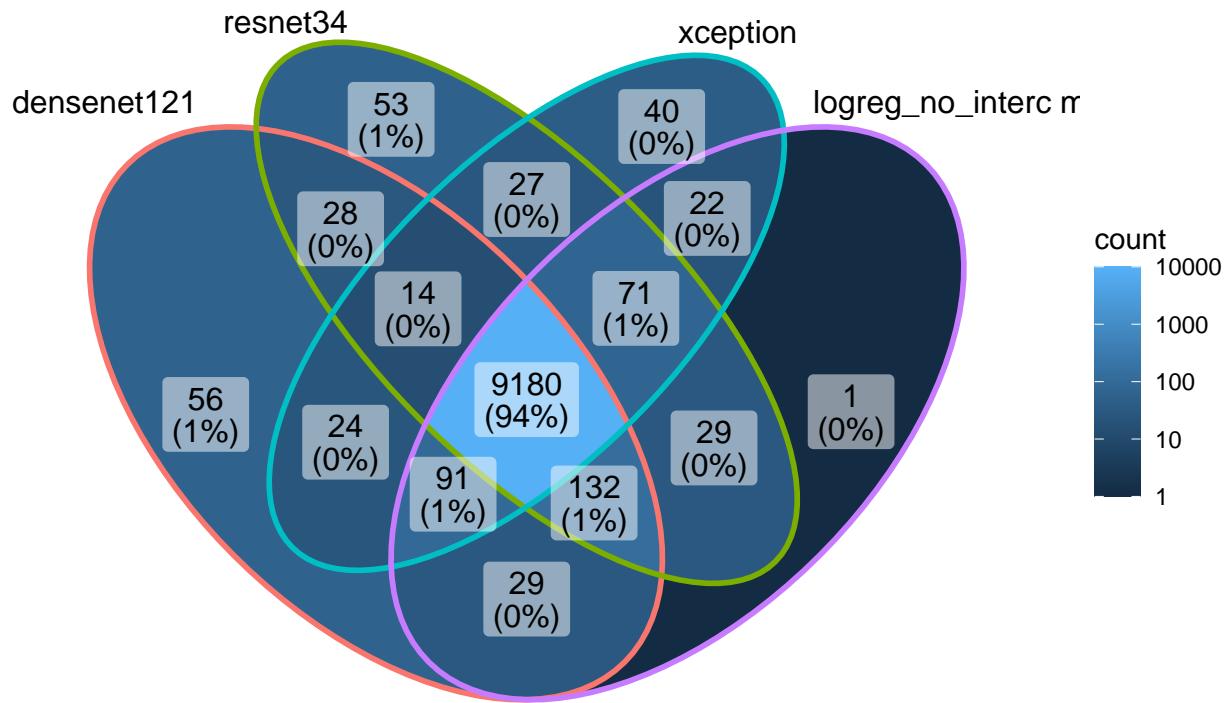


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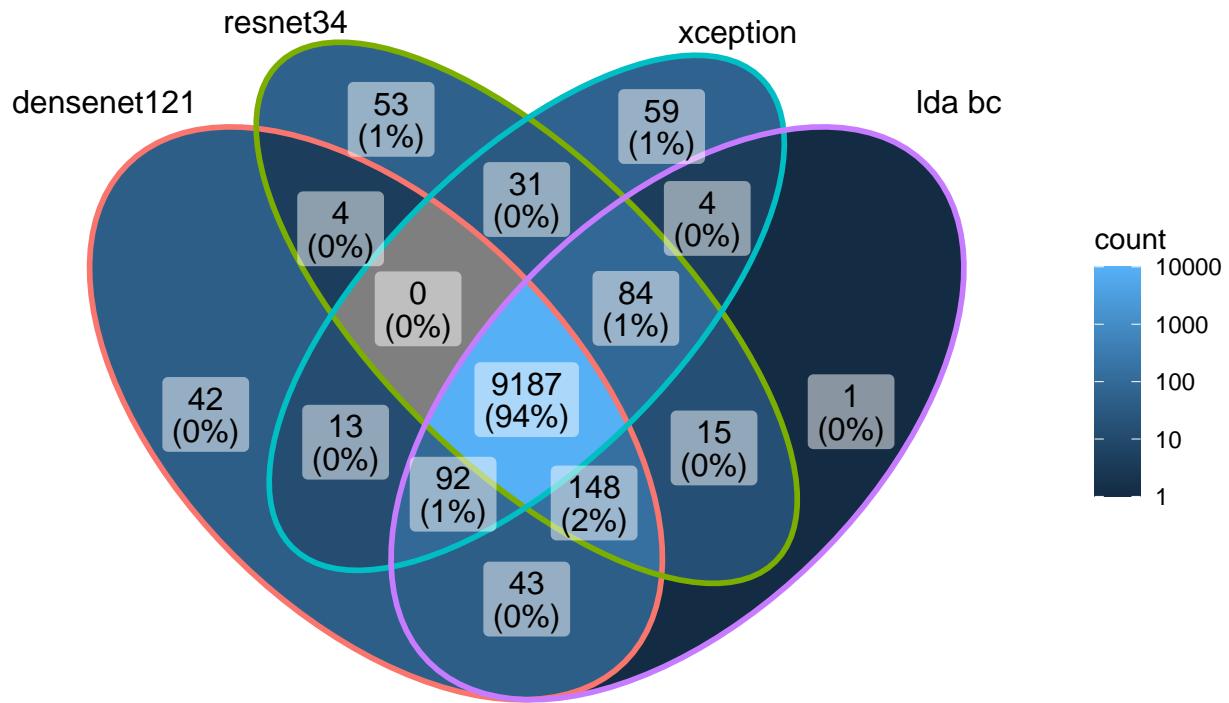


vt – replication 11



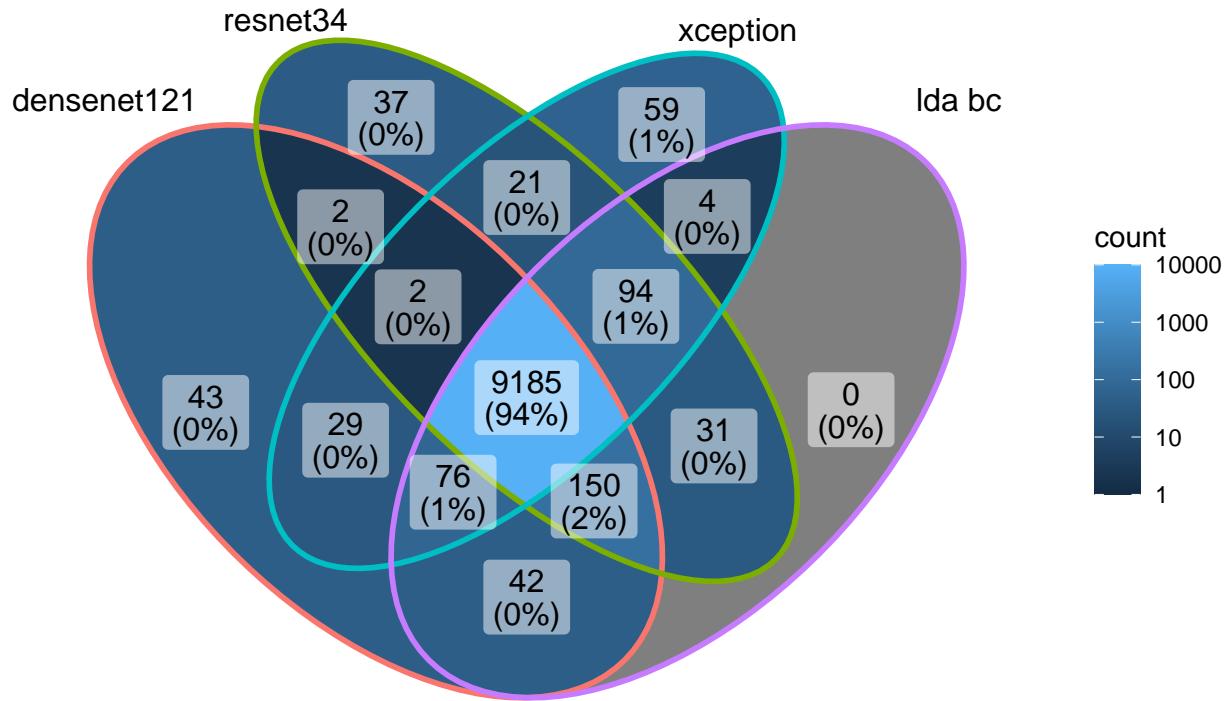
Warning: Transformation introduced infinite values in discrete y-axis

tt – replication 12



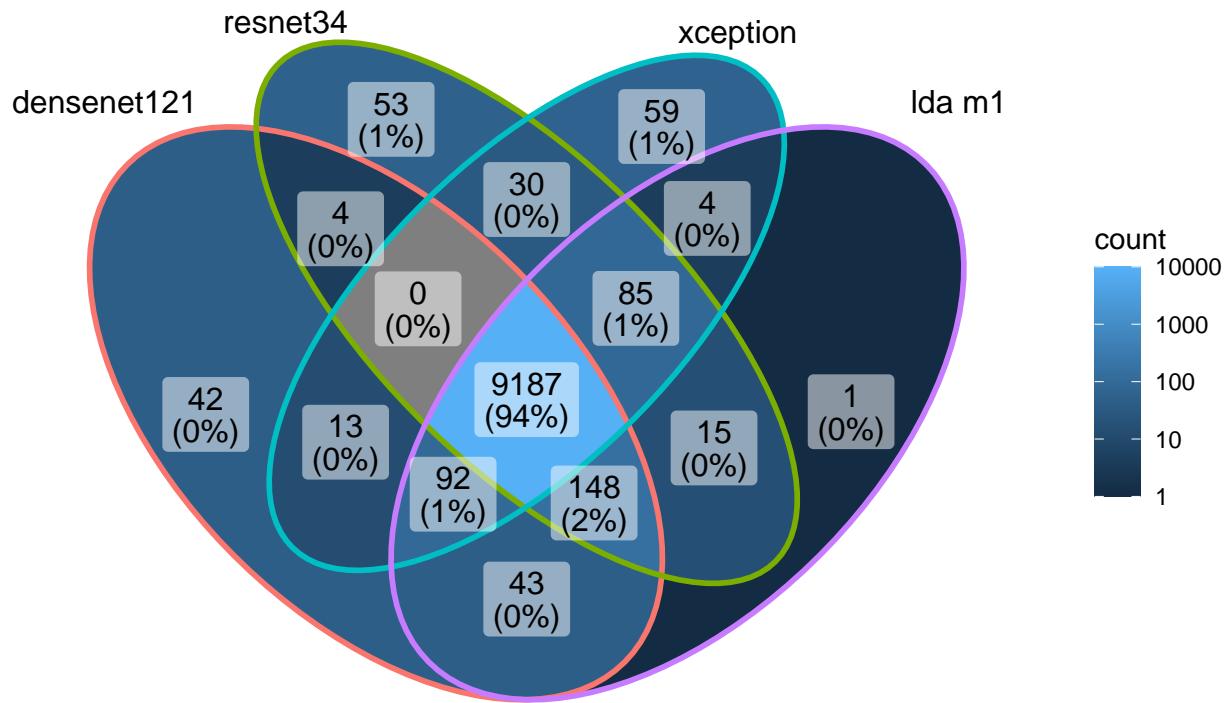
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vt – replication 12



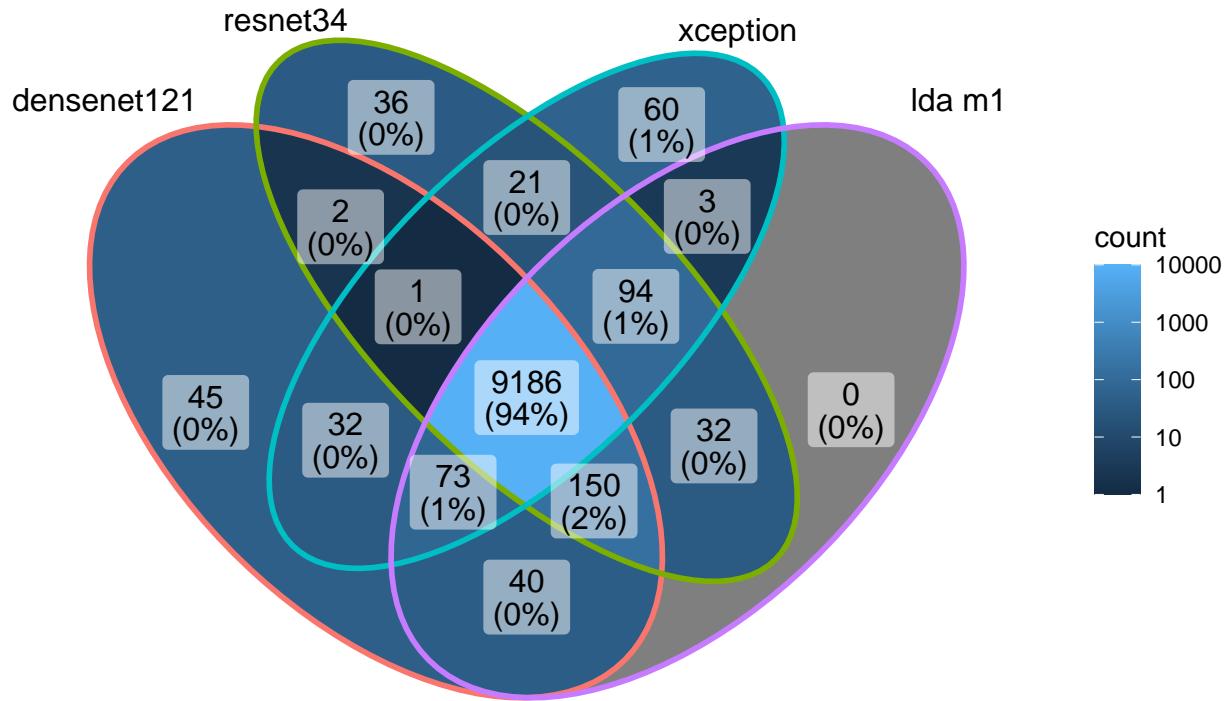
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tt – replication 12



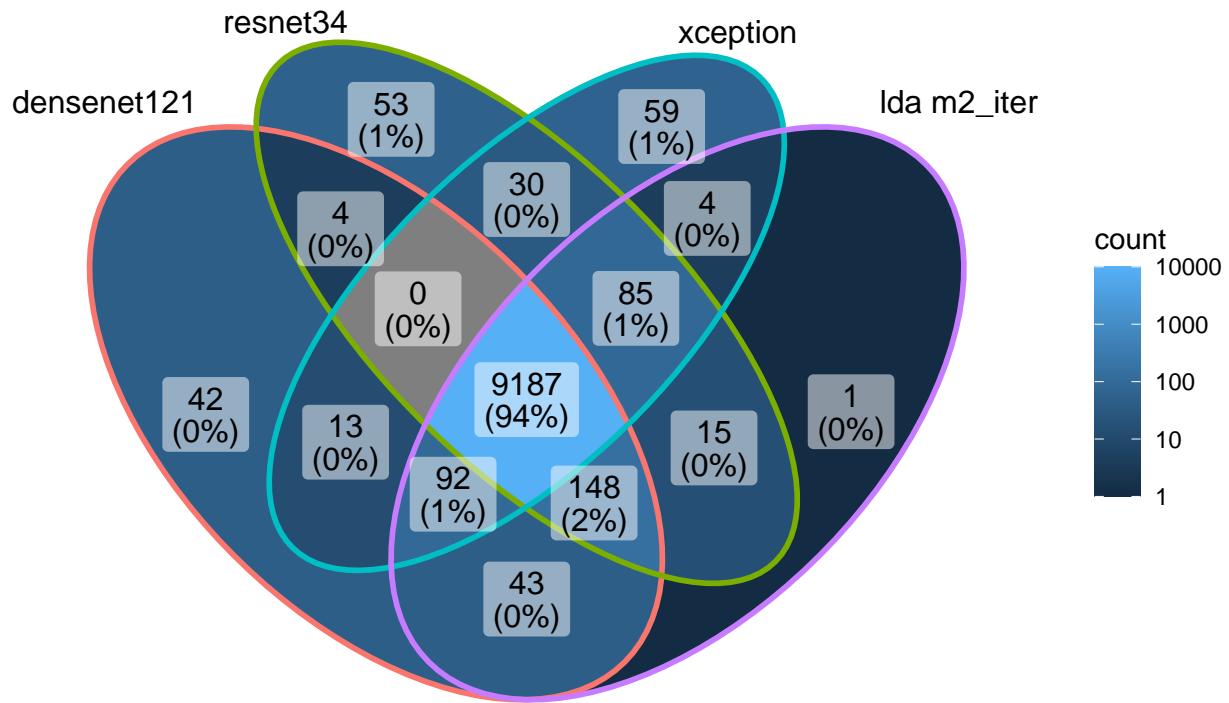
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vt – replication 12



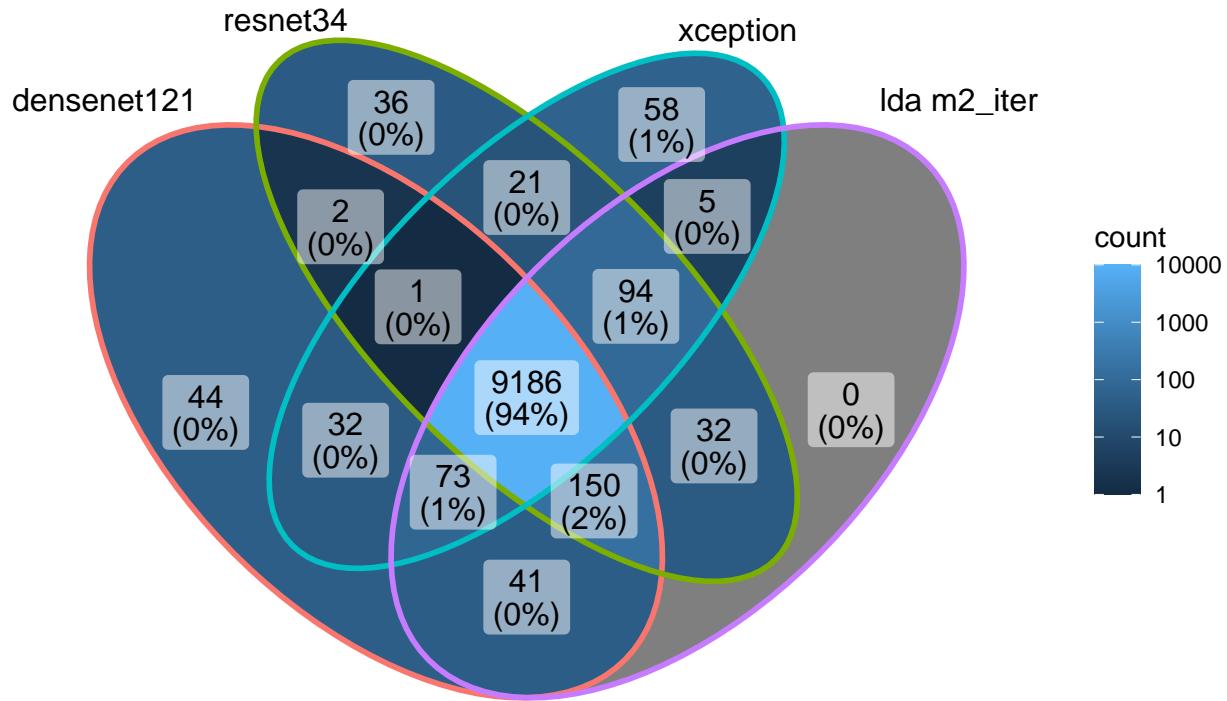
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tt – replication 12



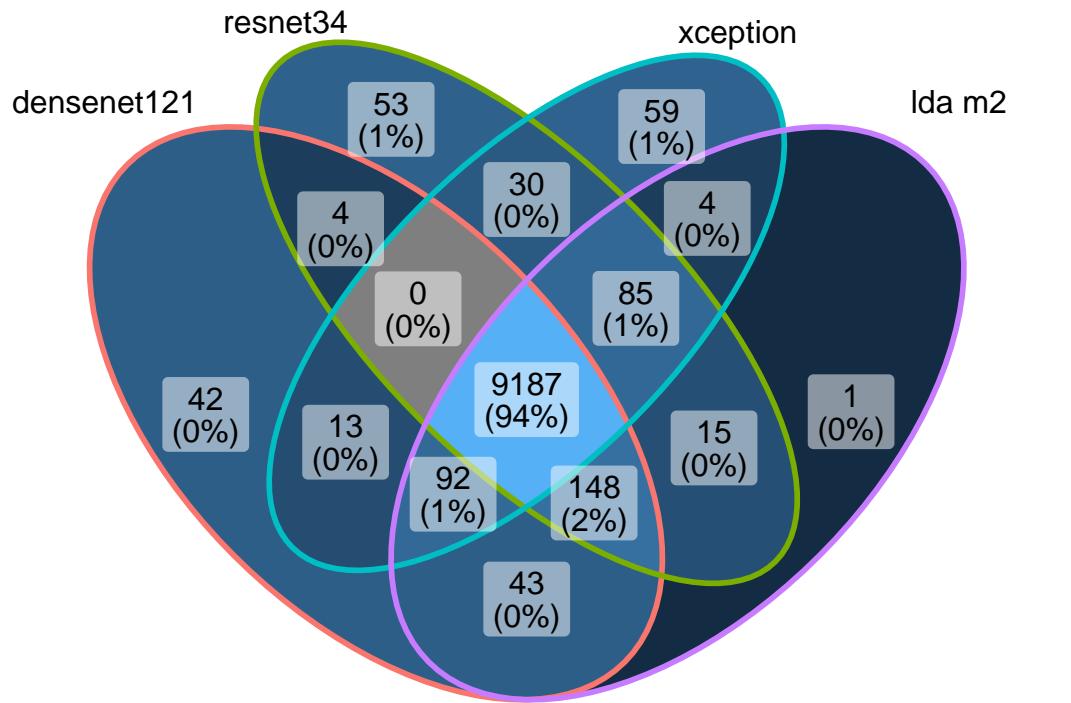
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vt – replication 12



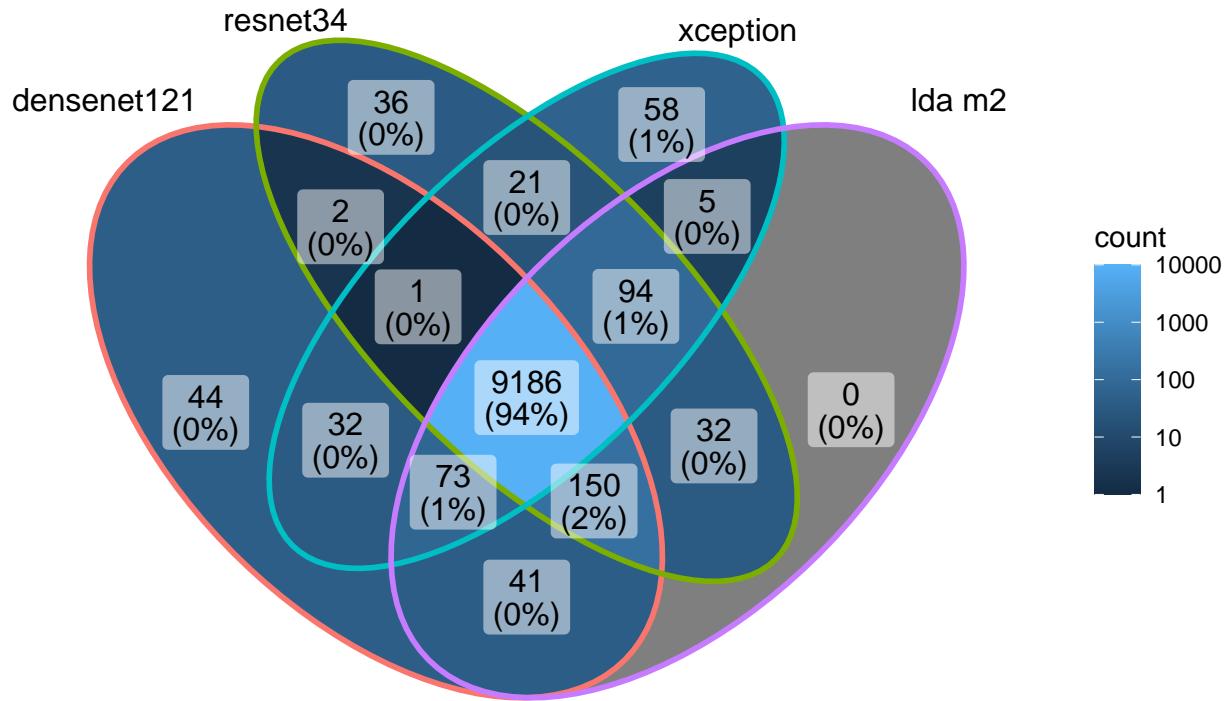
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tt – replication 12



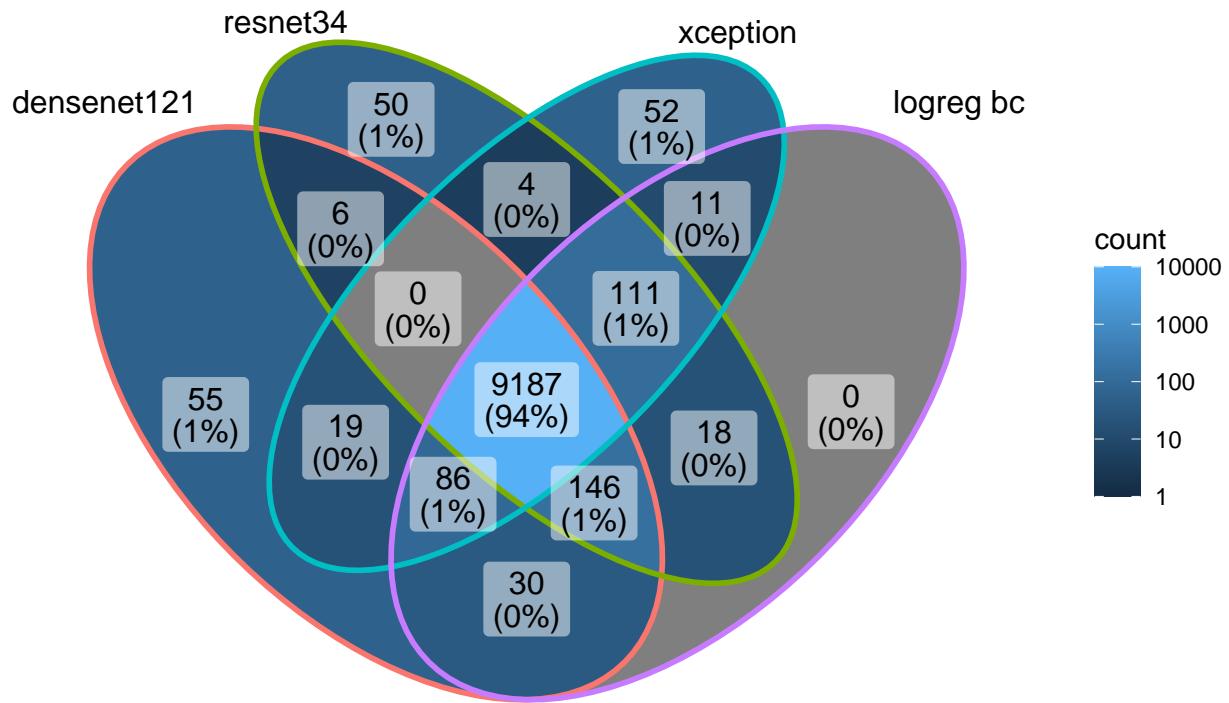
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vt – replication 12

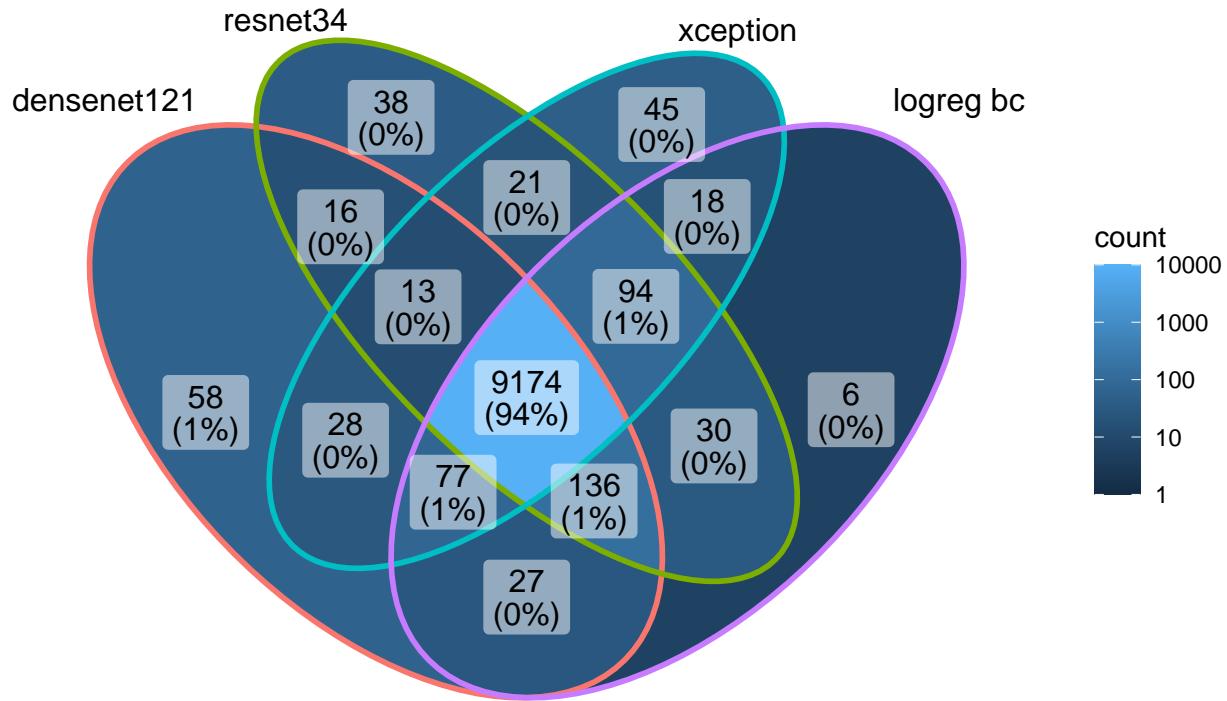


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tt – replication 12

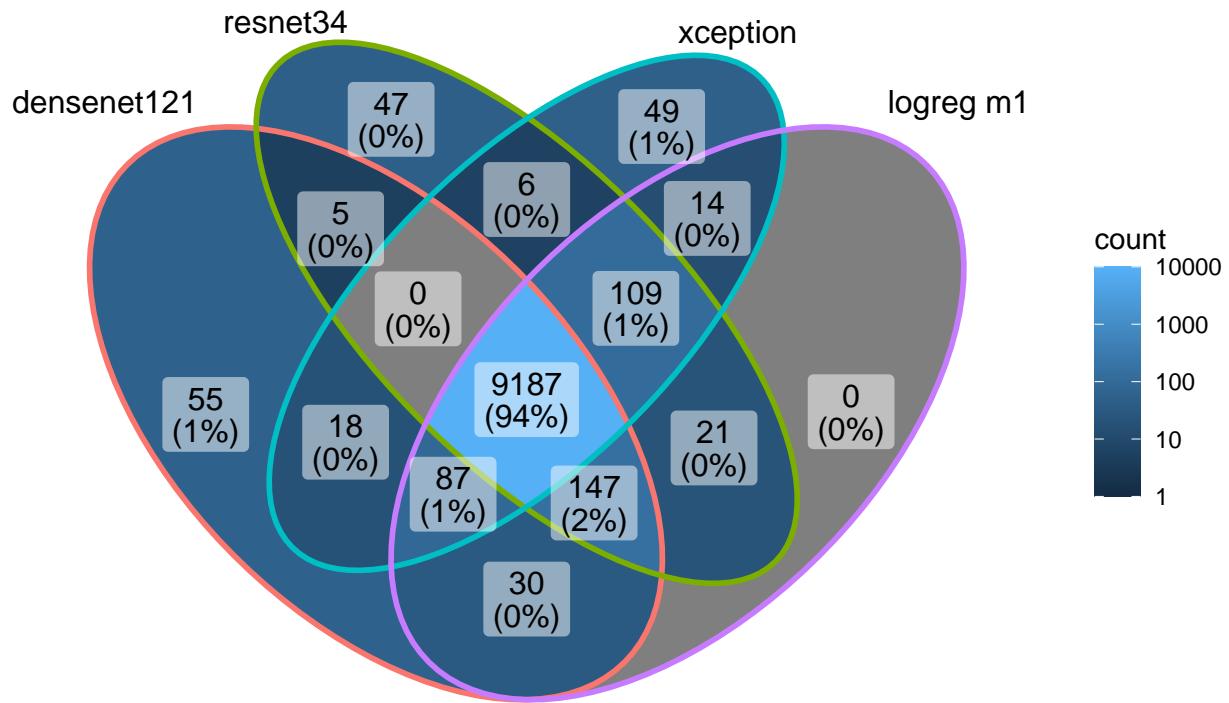


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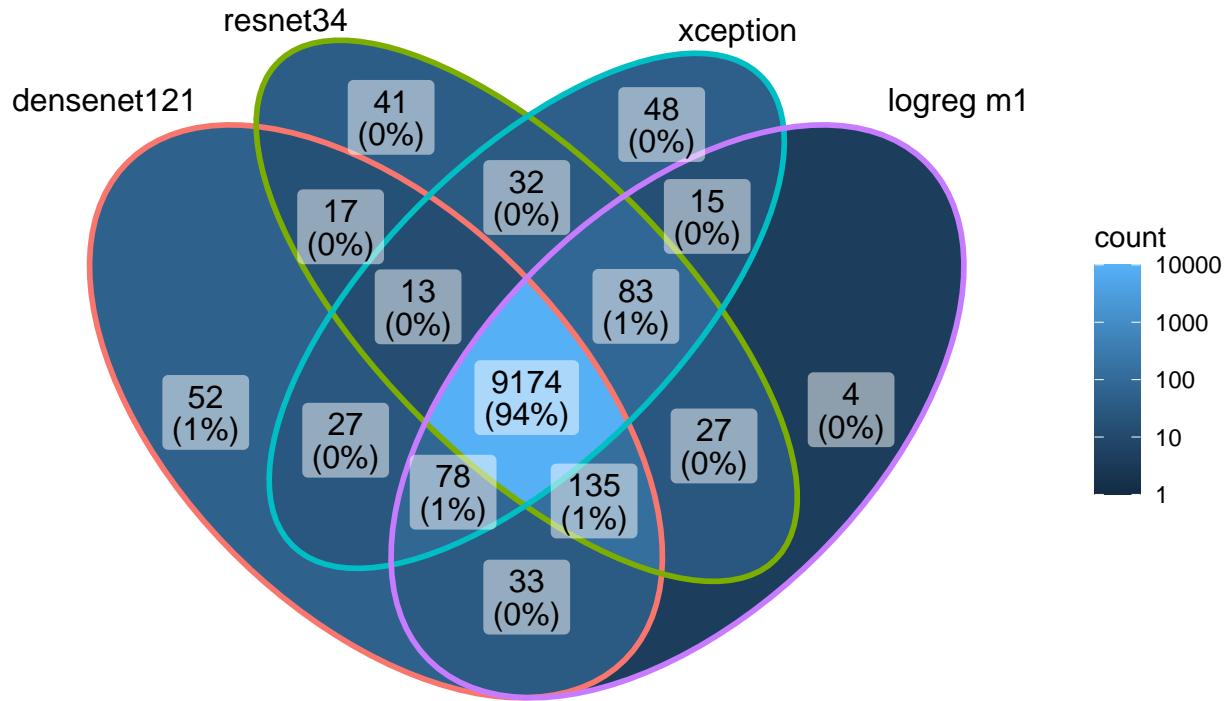


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tt – replication 12

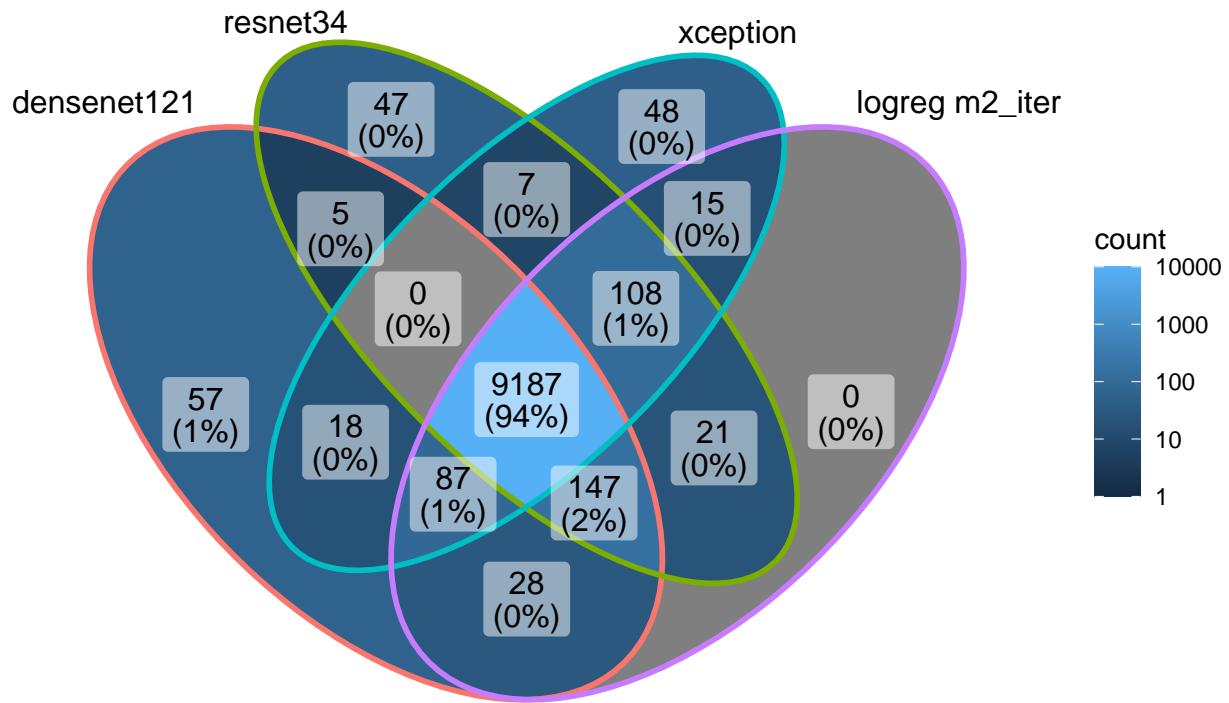


vt – replication 12

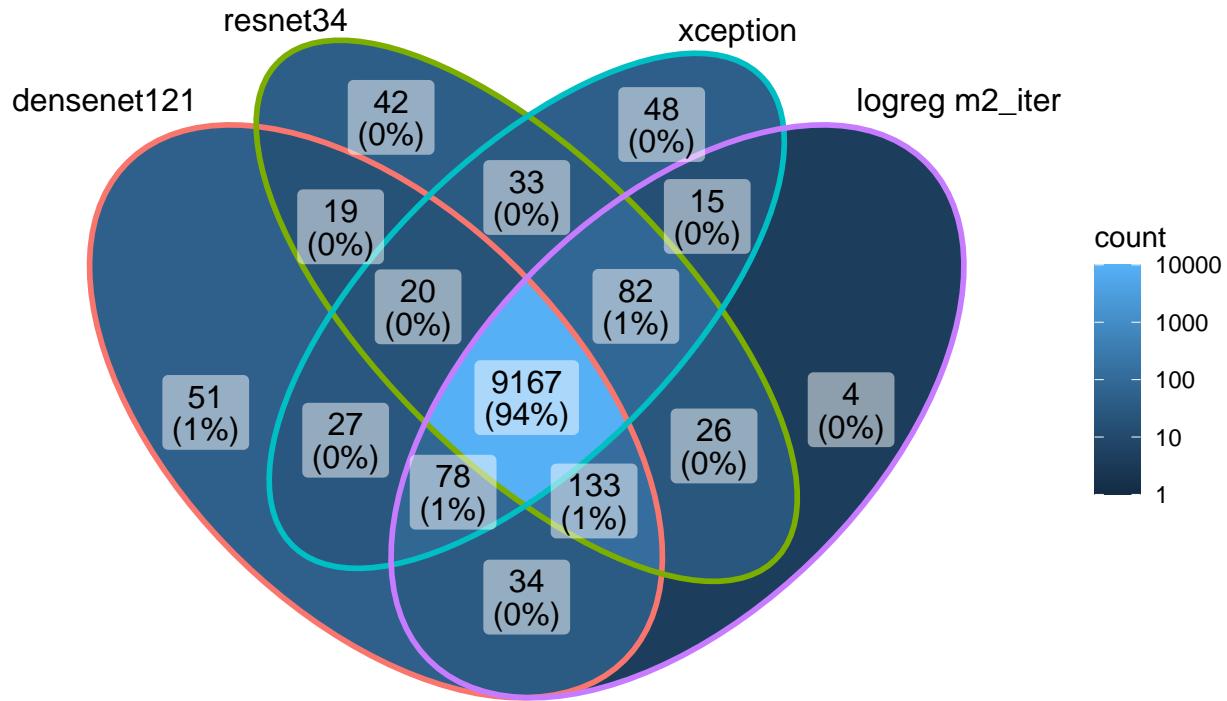


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tt – replication 12

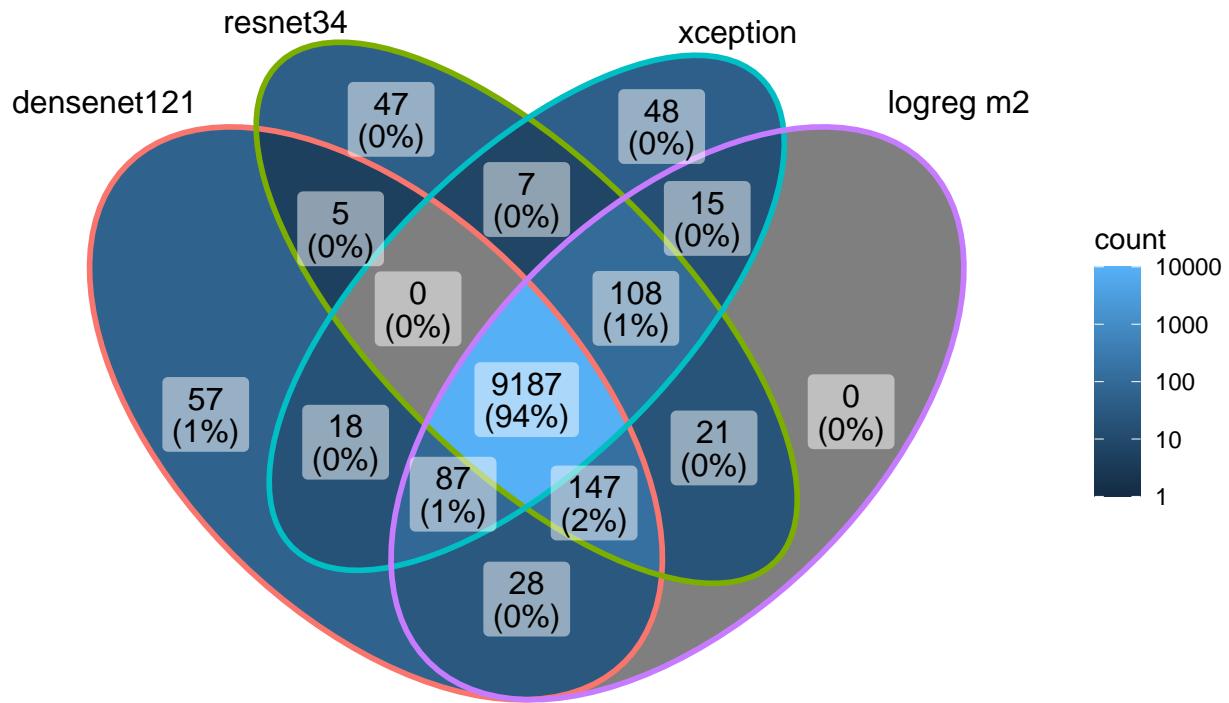


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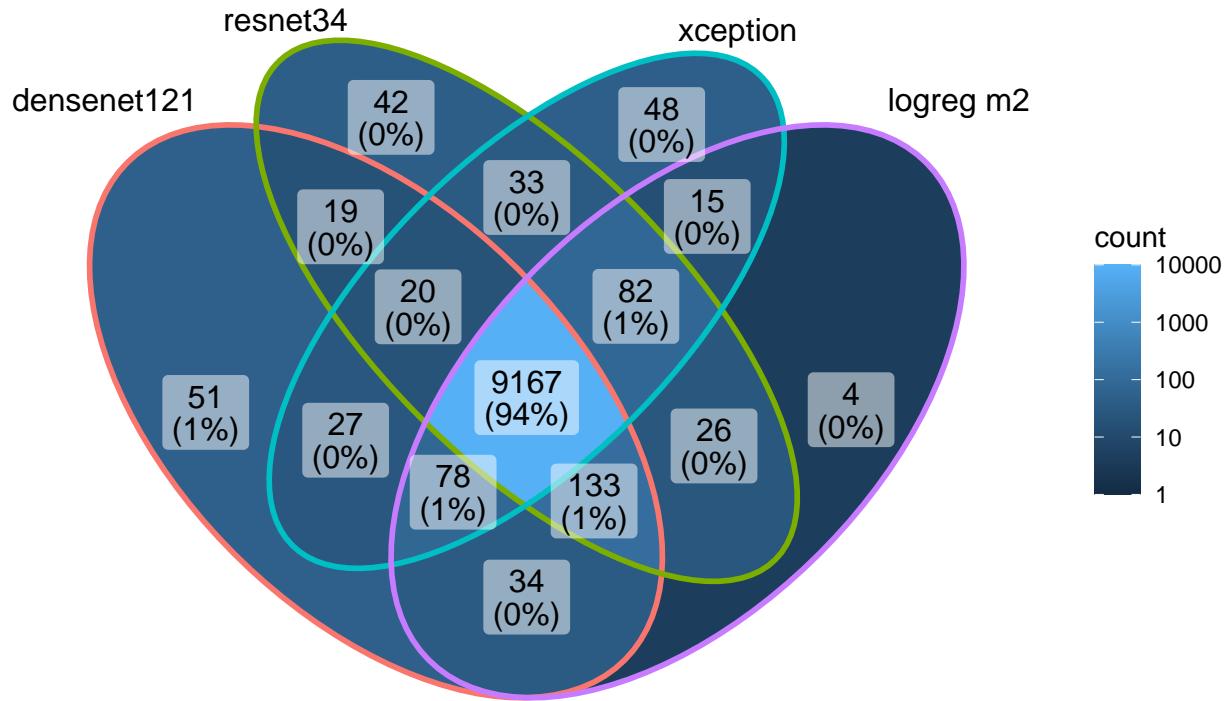


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tt – replication 12

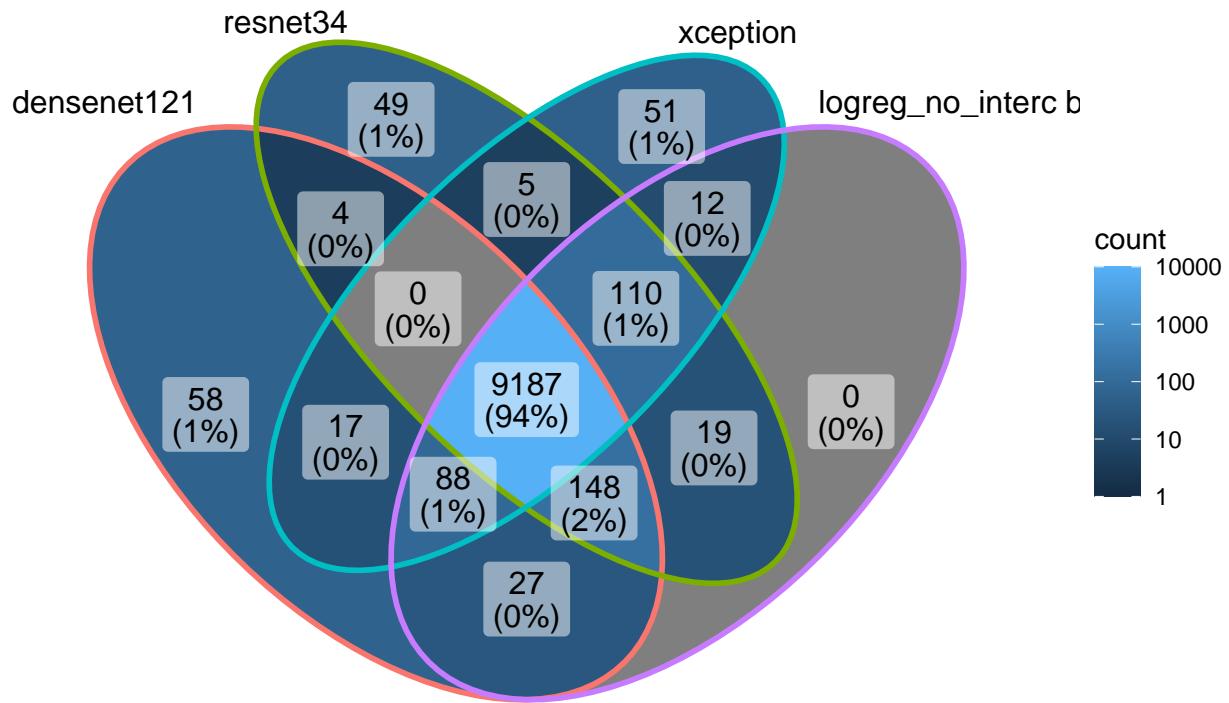


vt – replication 12



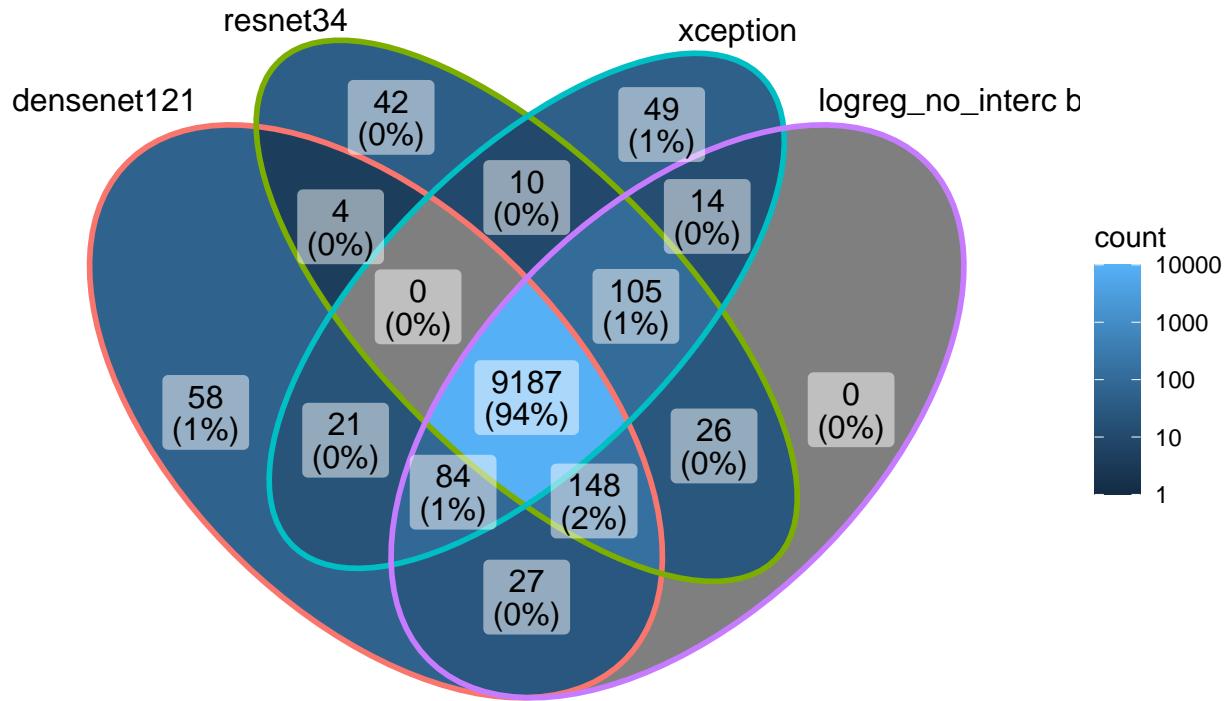
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tt – replication 12



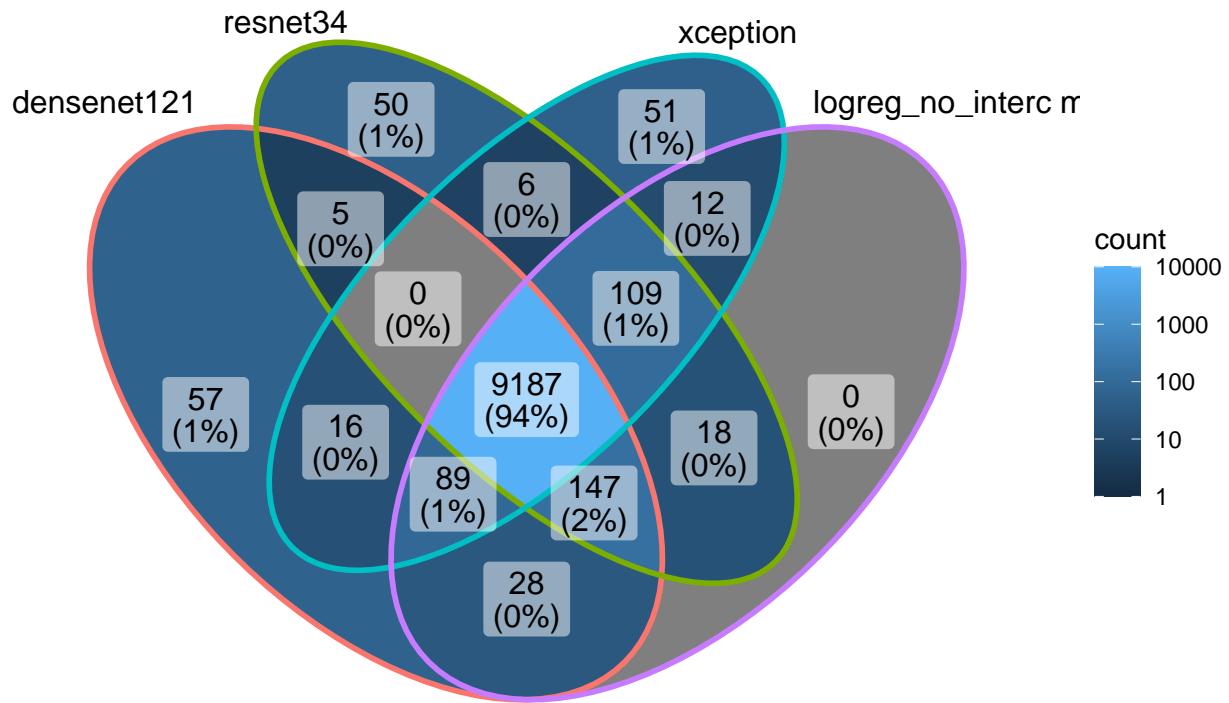
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vt – replication 12



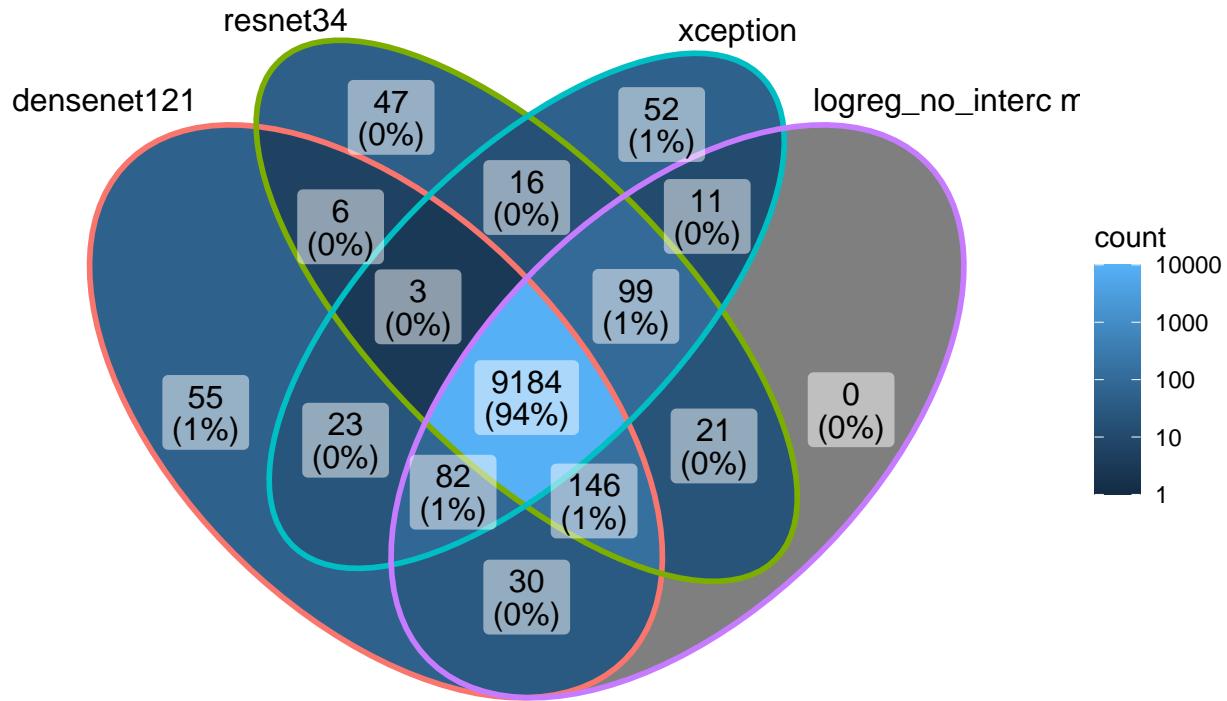
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tt – replication 12



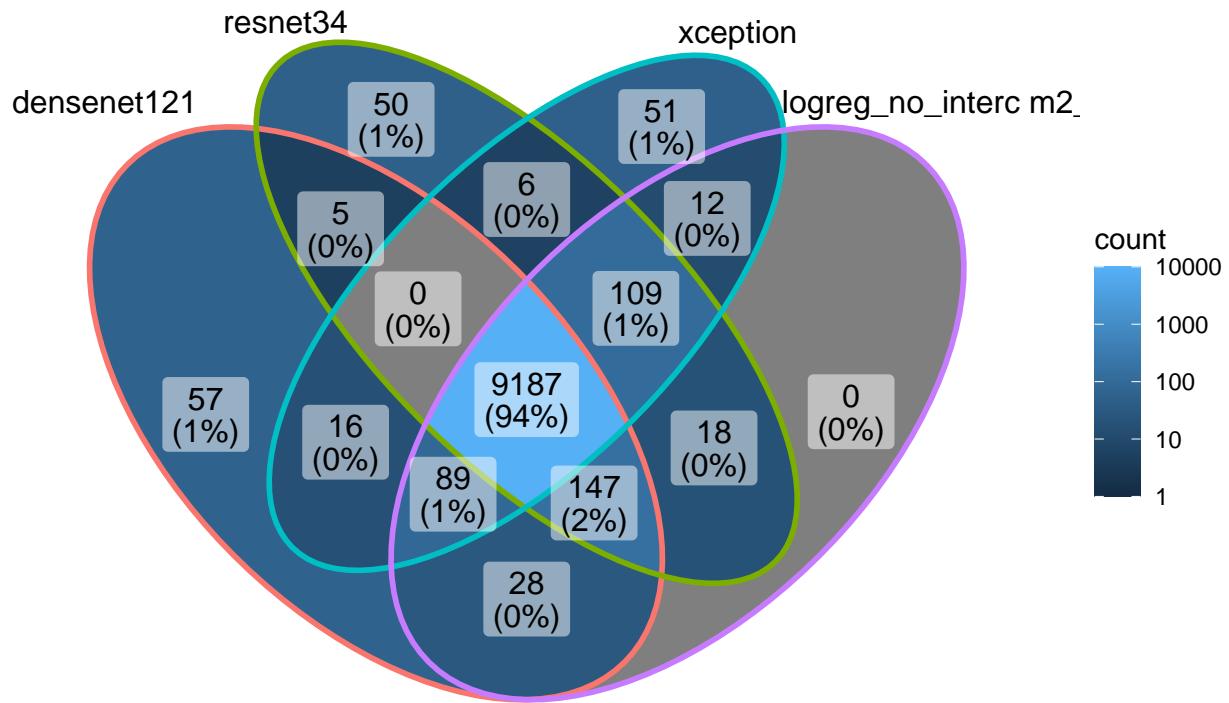
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vt – replication 12



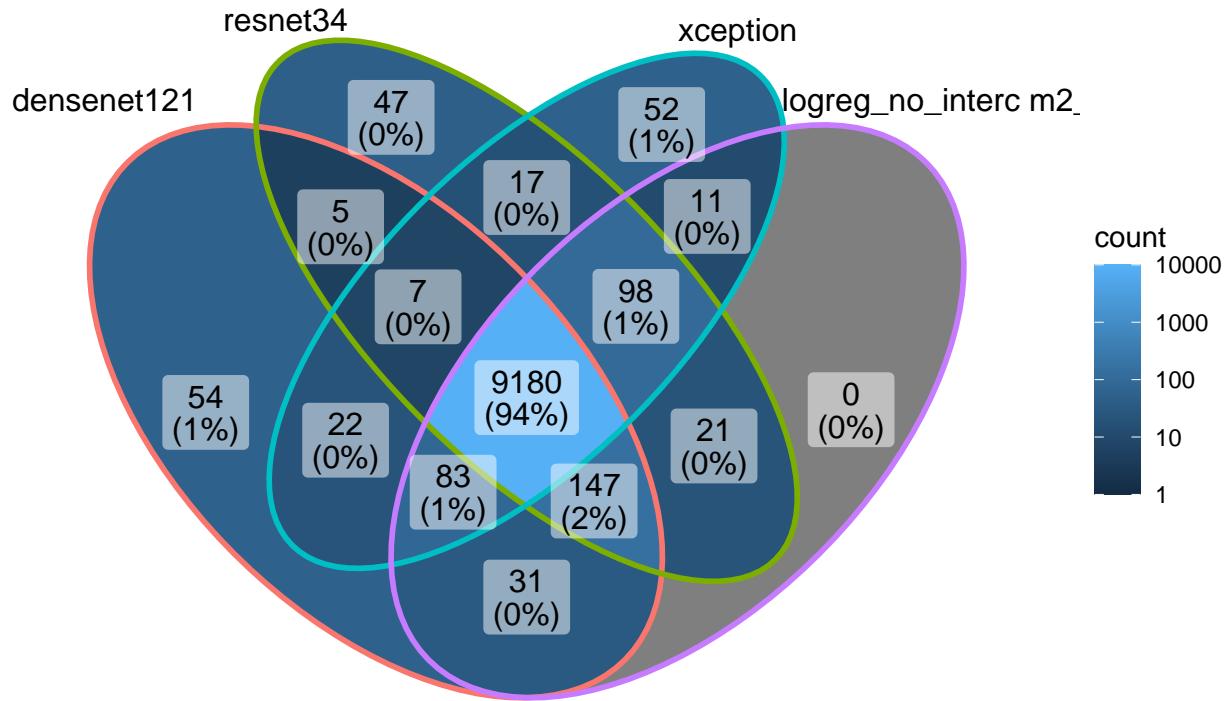
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tt – replication 12



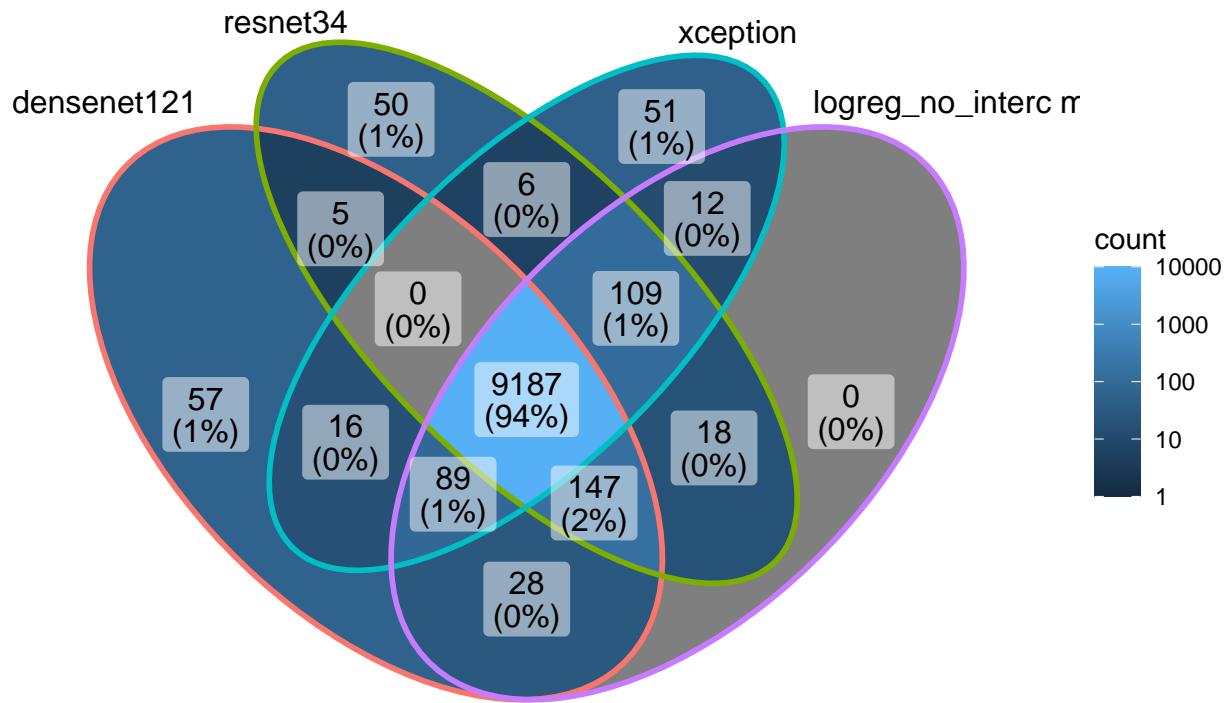
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vt – replication 12



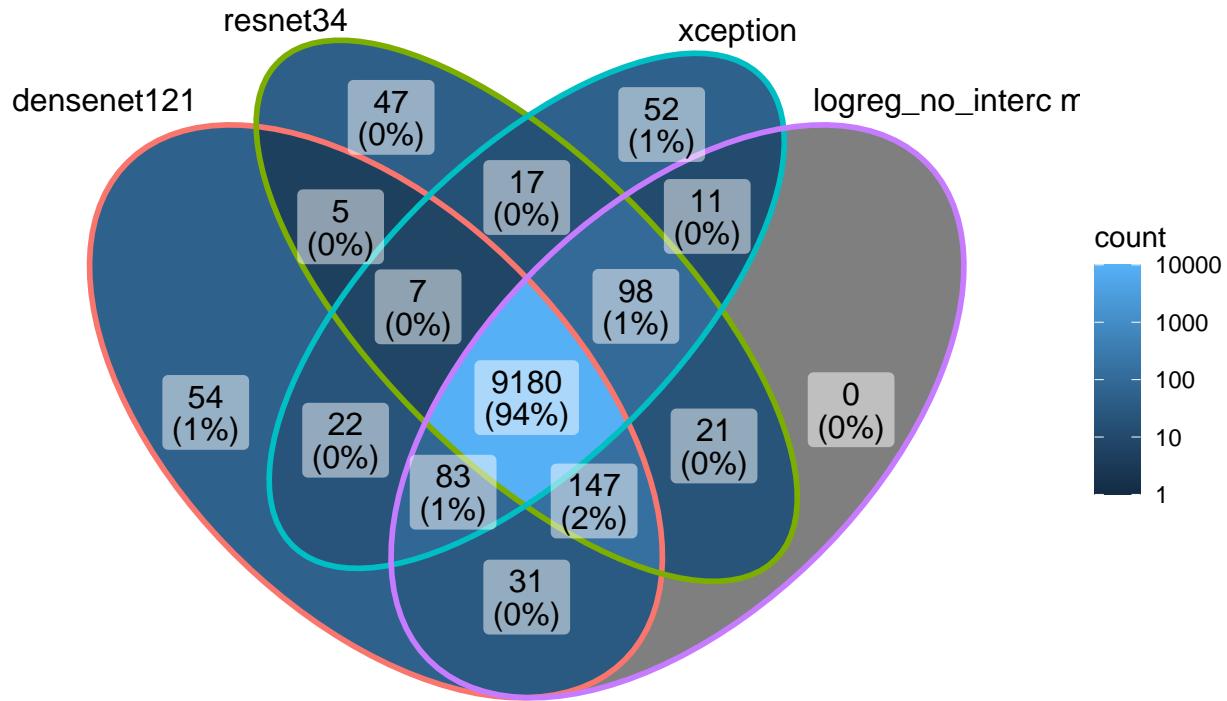
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tt – replication 12



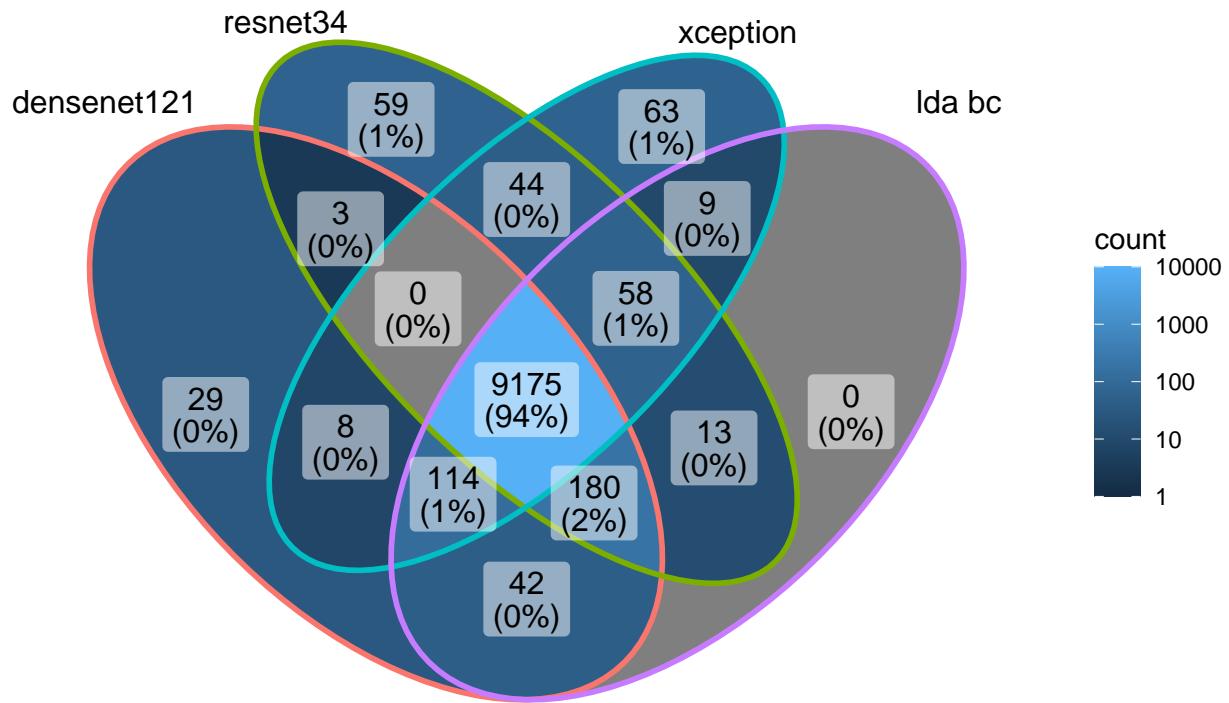
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vt – replication 12



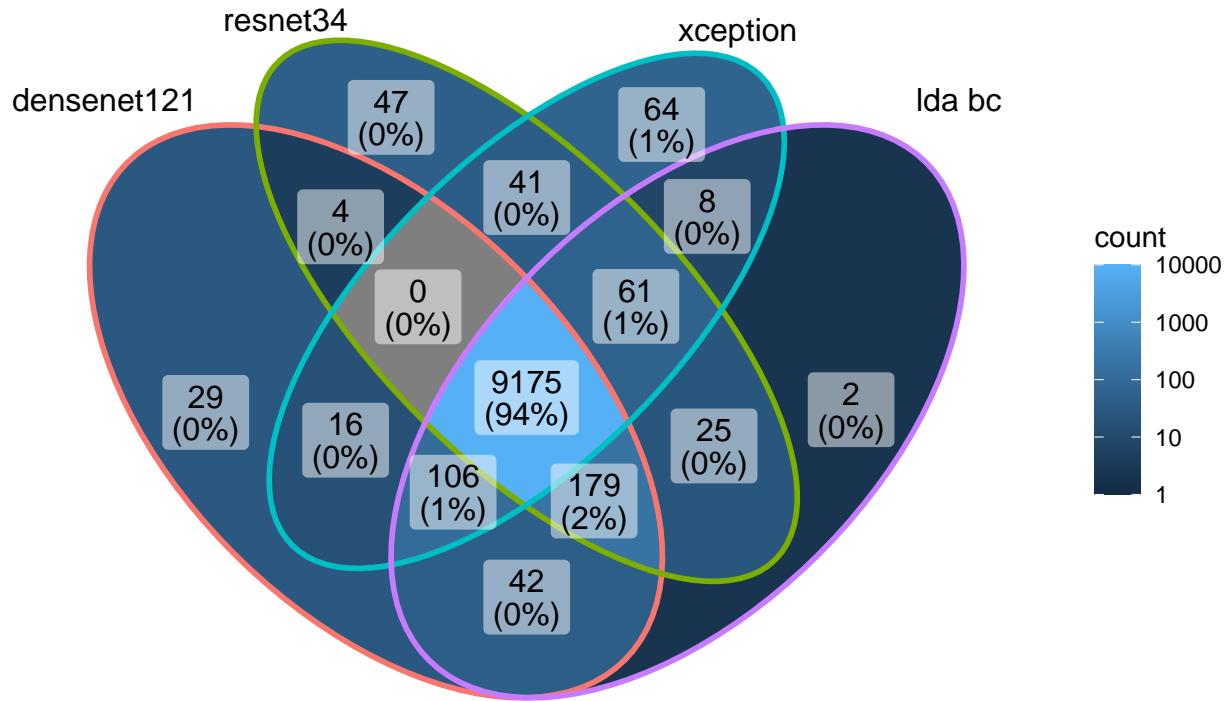
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tt – replication 13



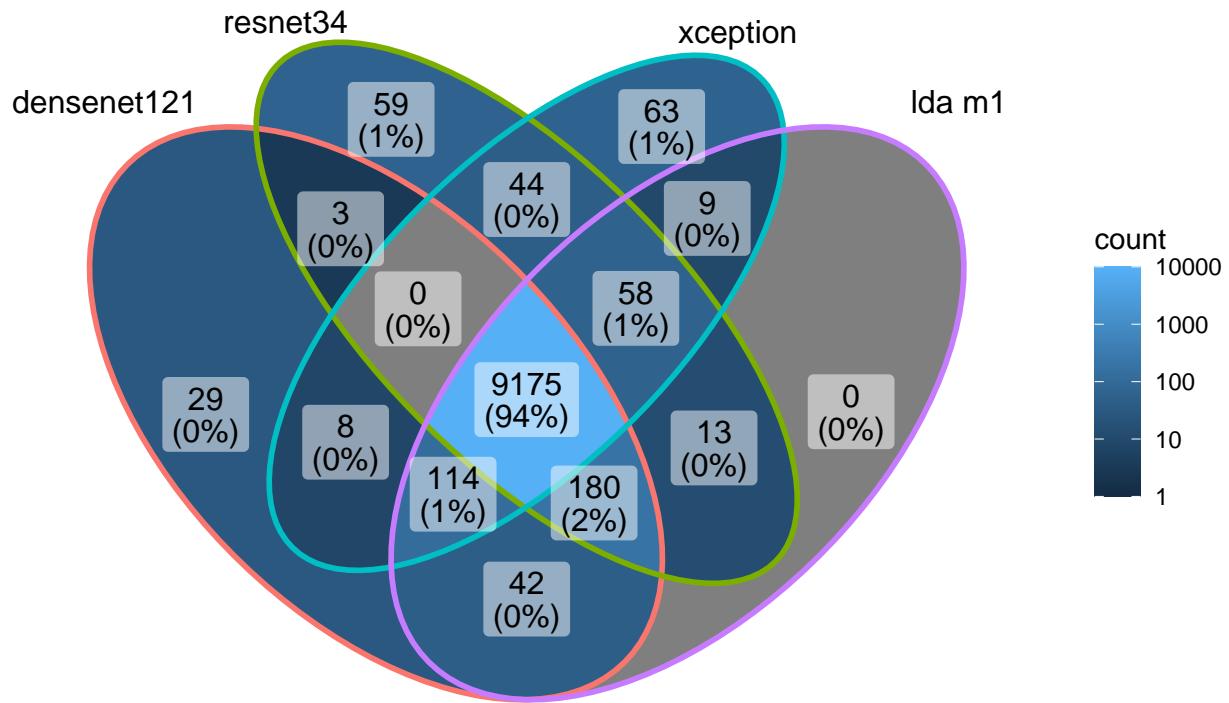
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vt – replication 13



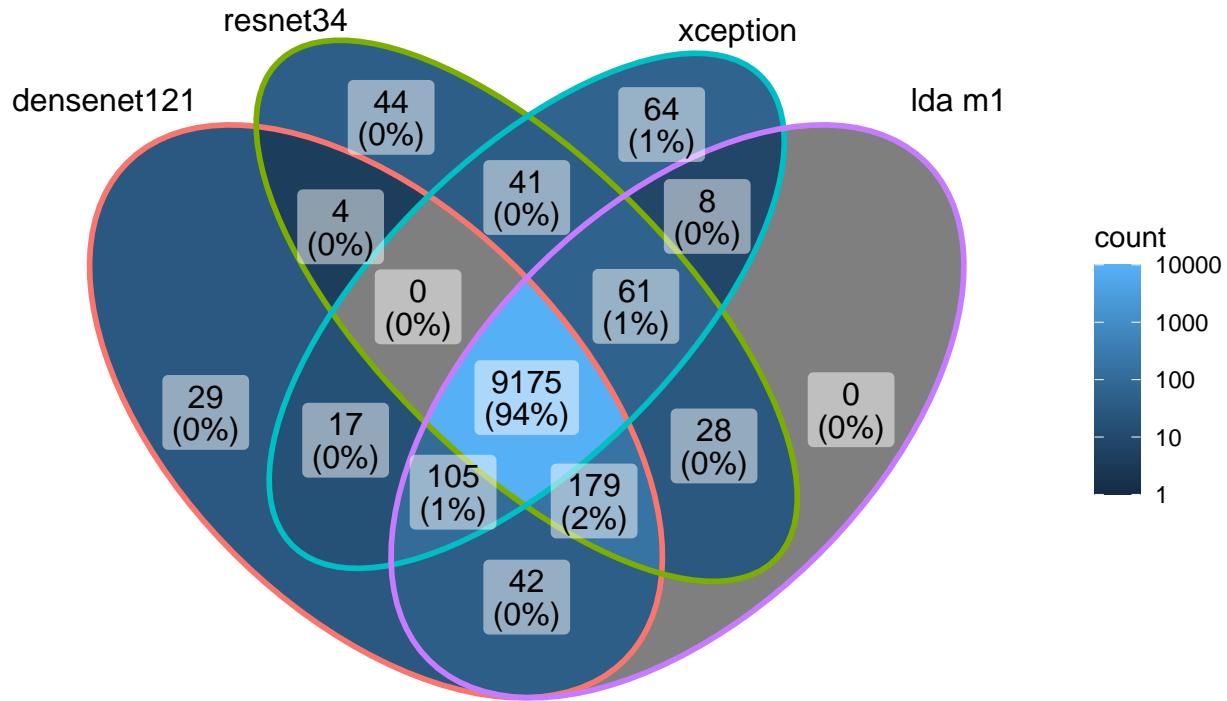
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tt – replication 13



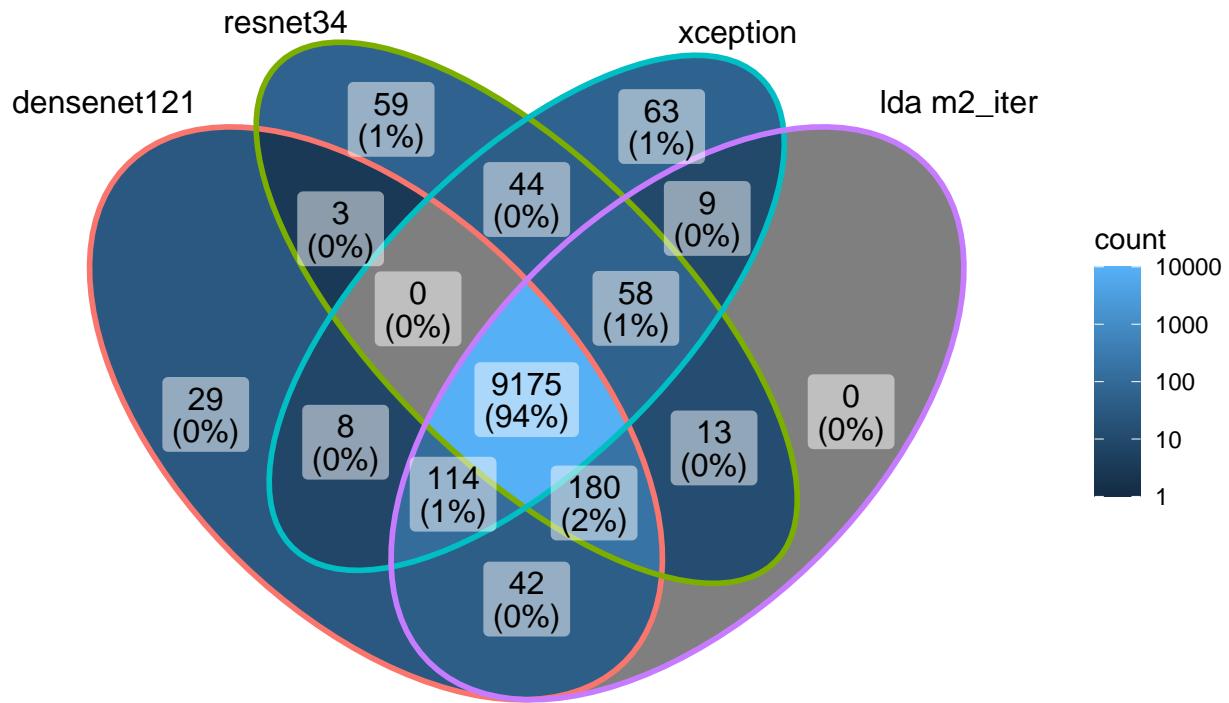
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vt – replication 13



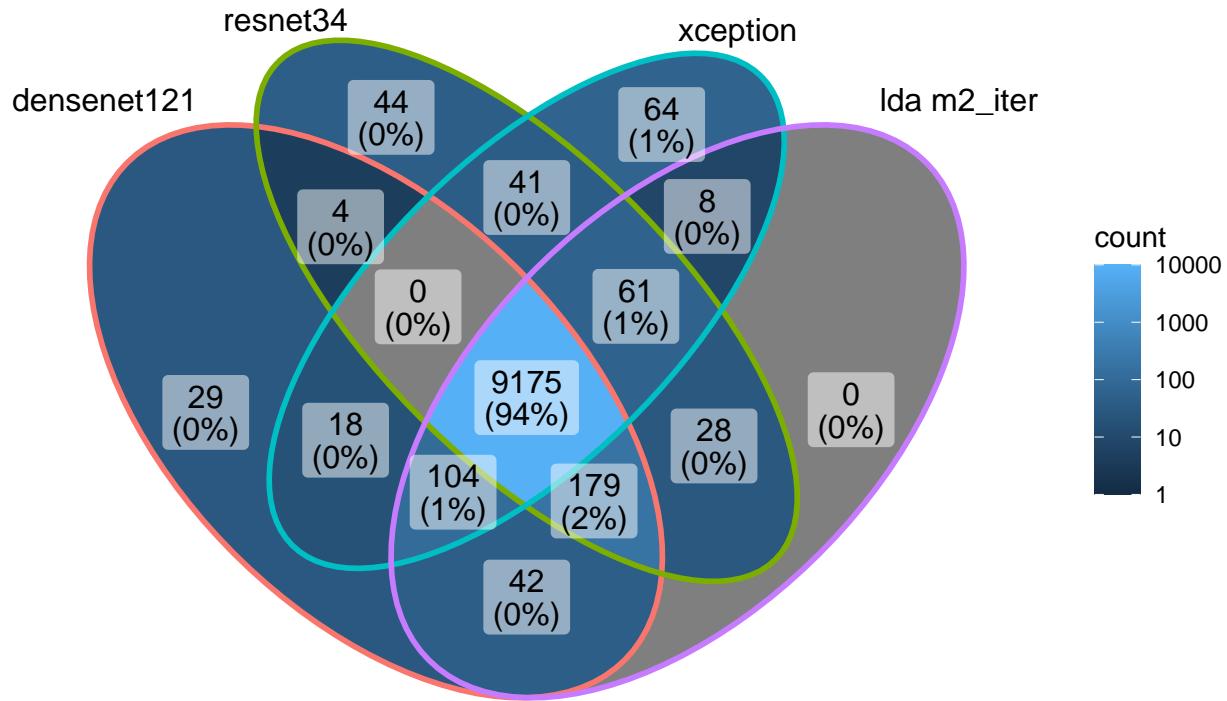
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tt – replication 13



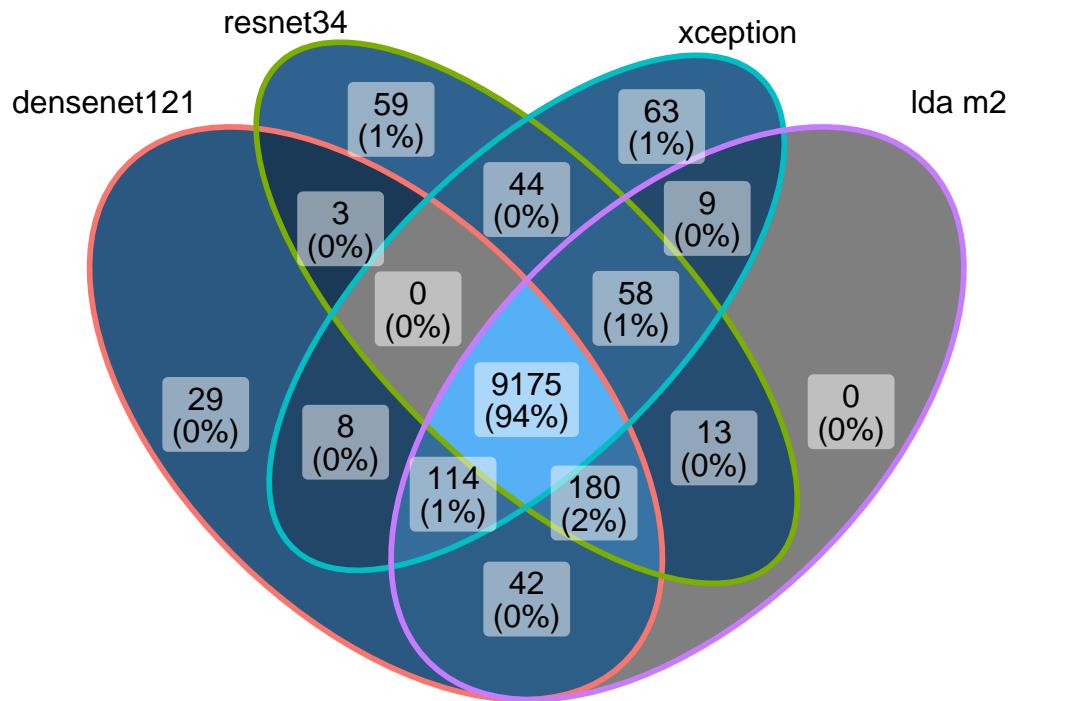
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vt – replication 13



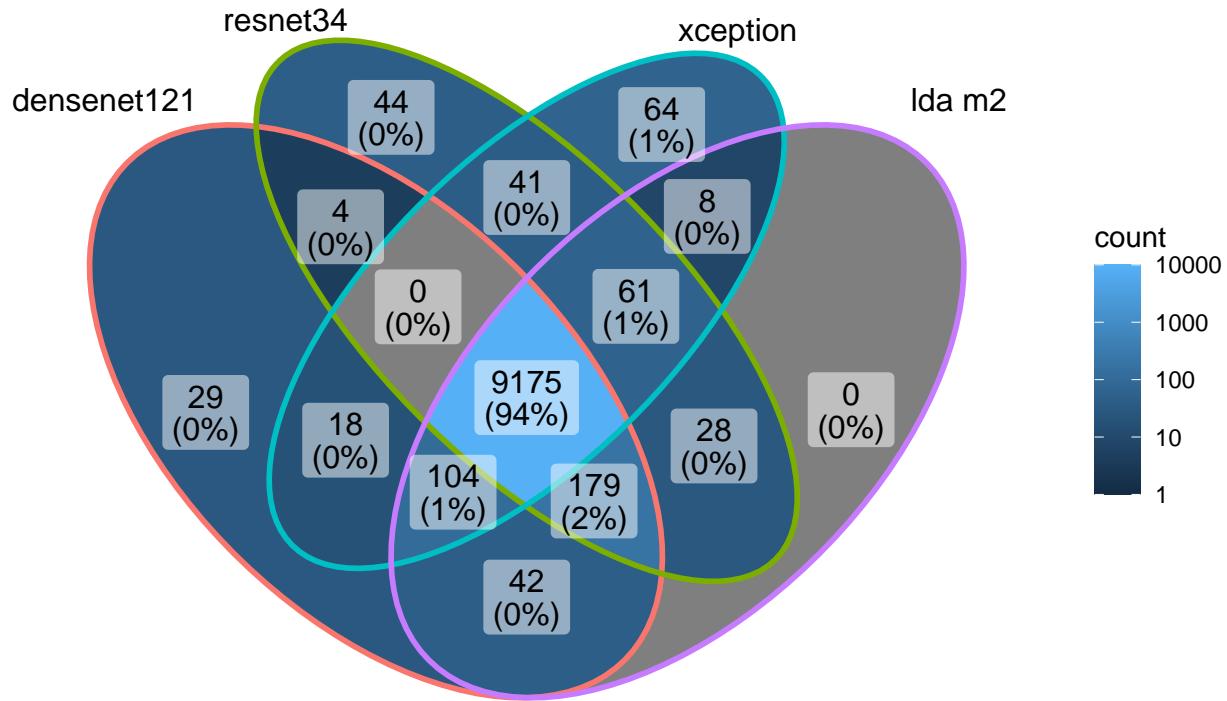
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tt – replication 13



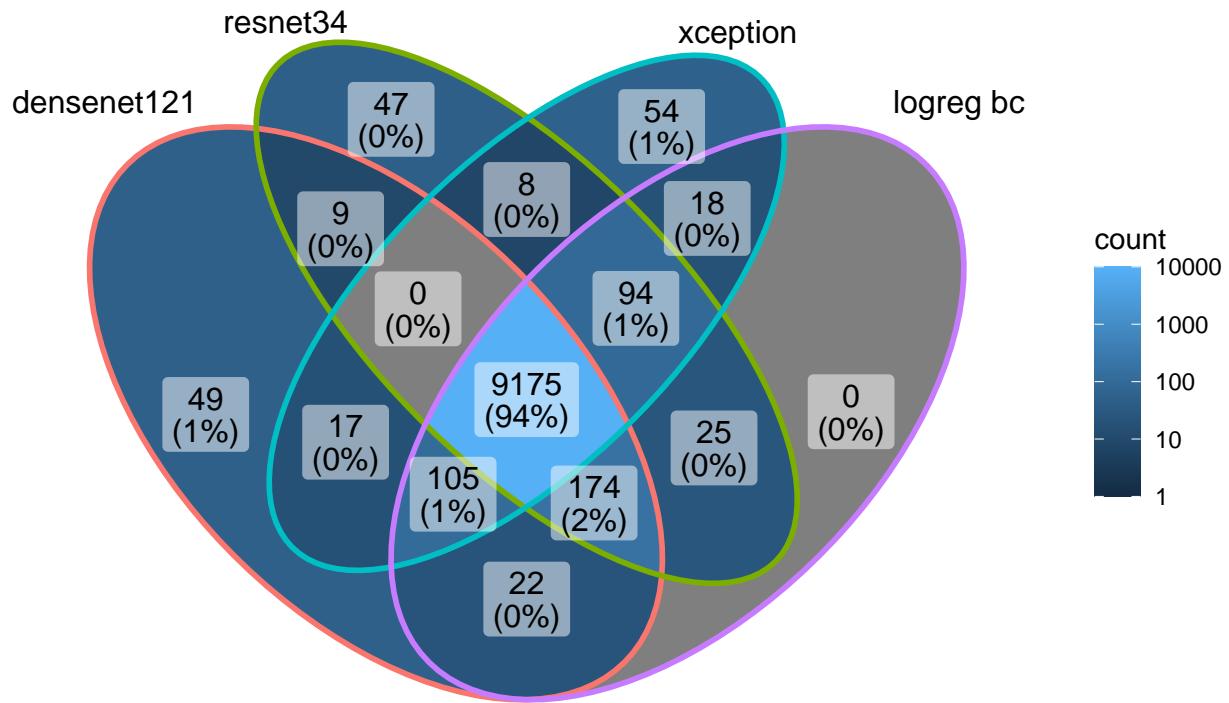
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vt – replication 13

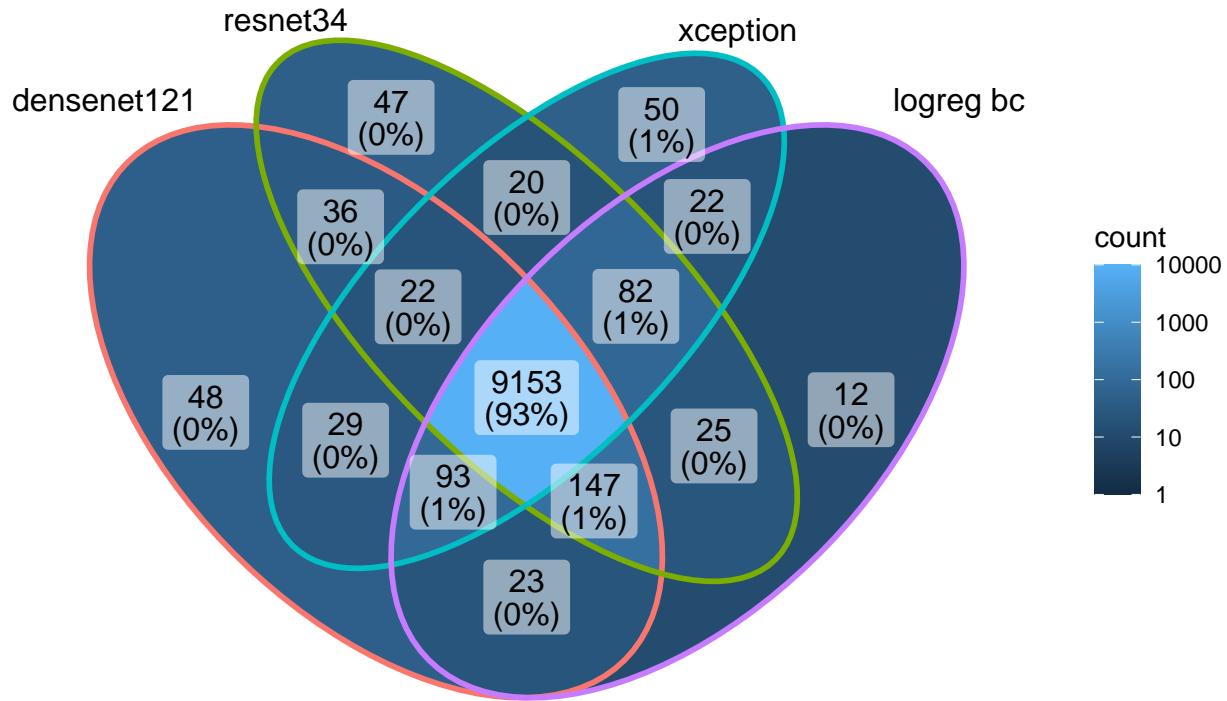


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tt – replication 13

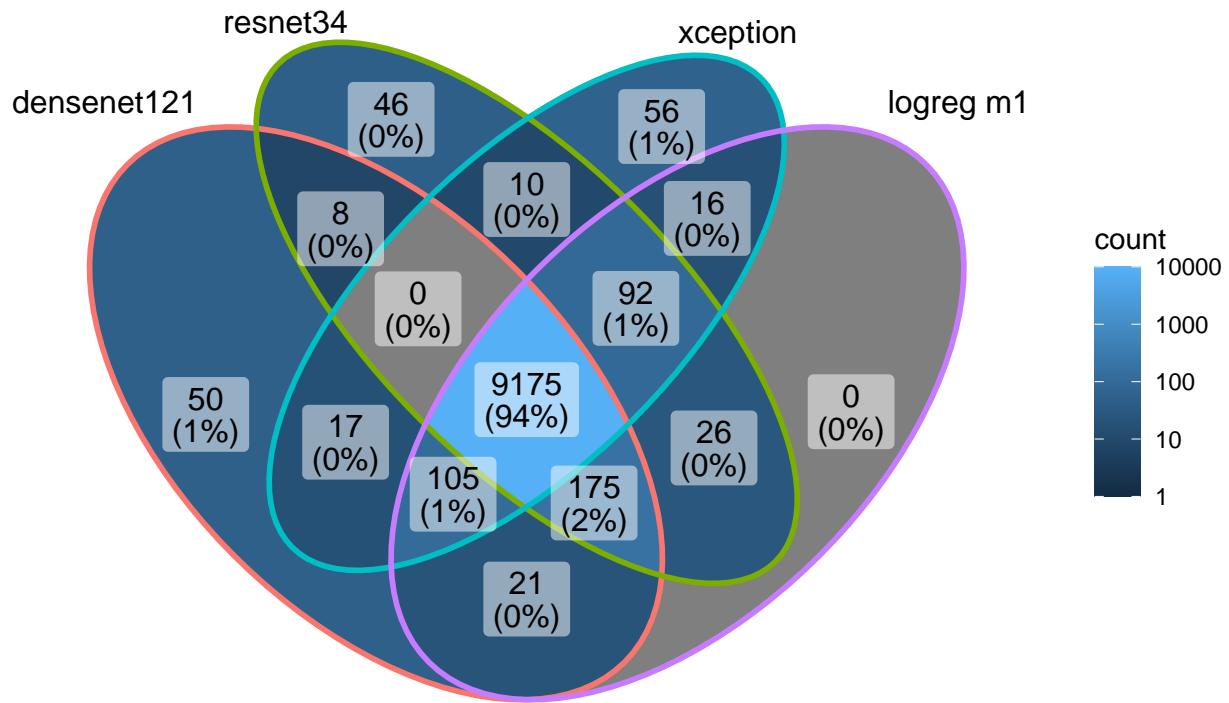


vt – replication 13

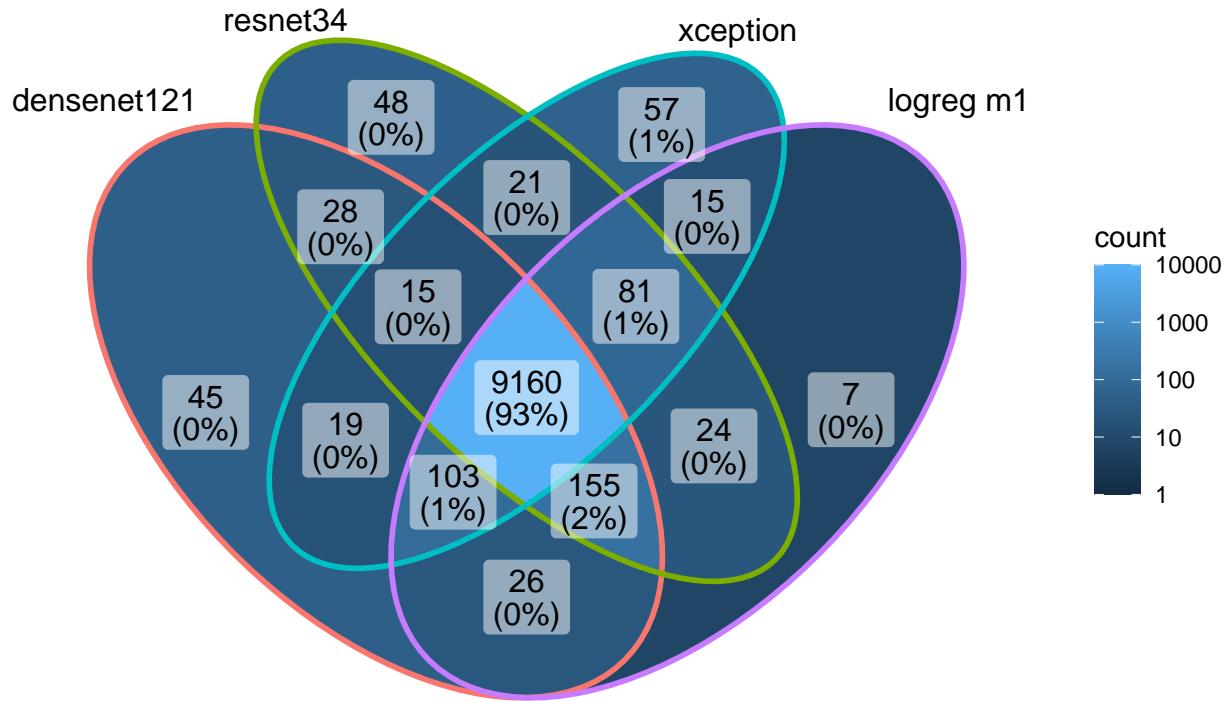


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tt – replication 13

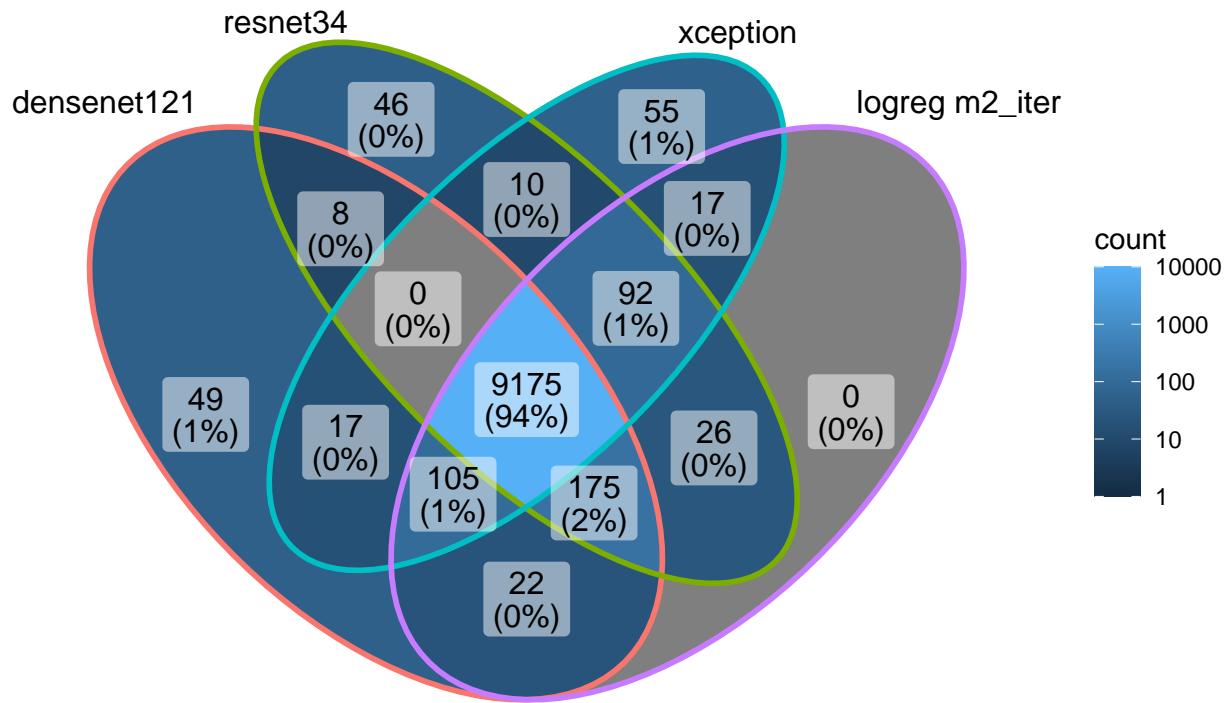


vt – replication 13

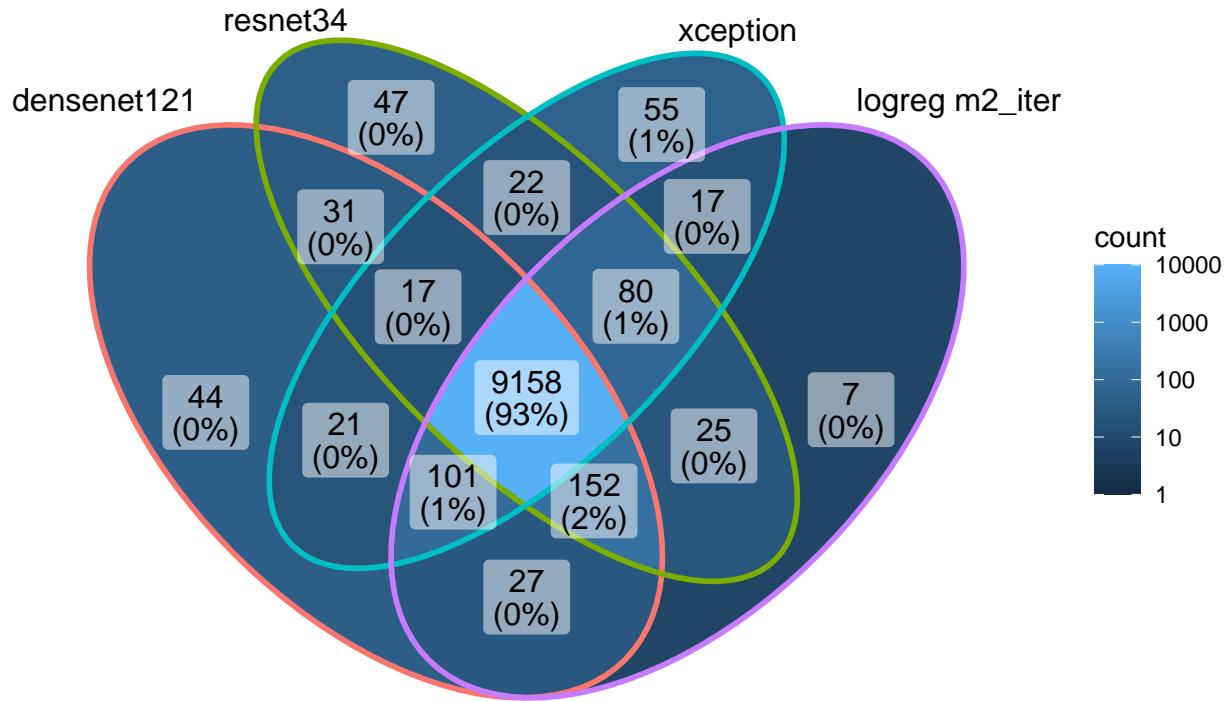


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tt – replication 13

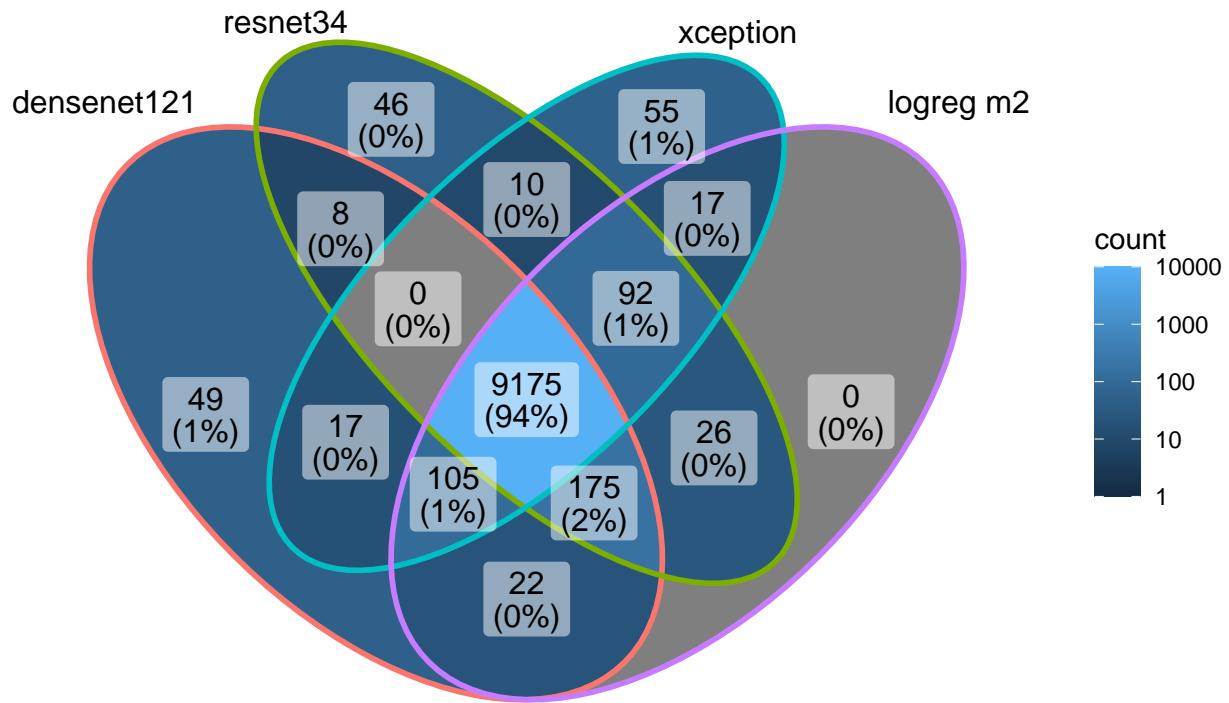


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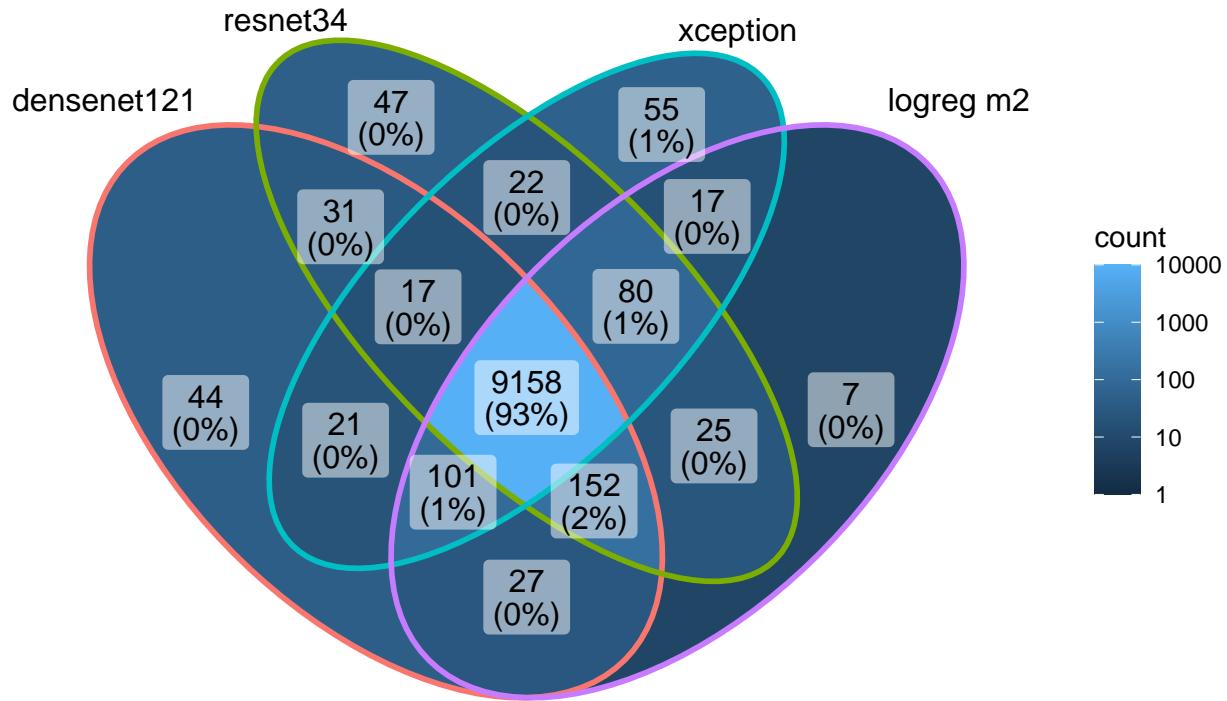


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tt – replication 13

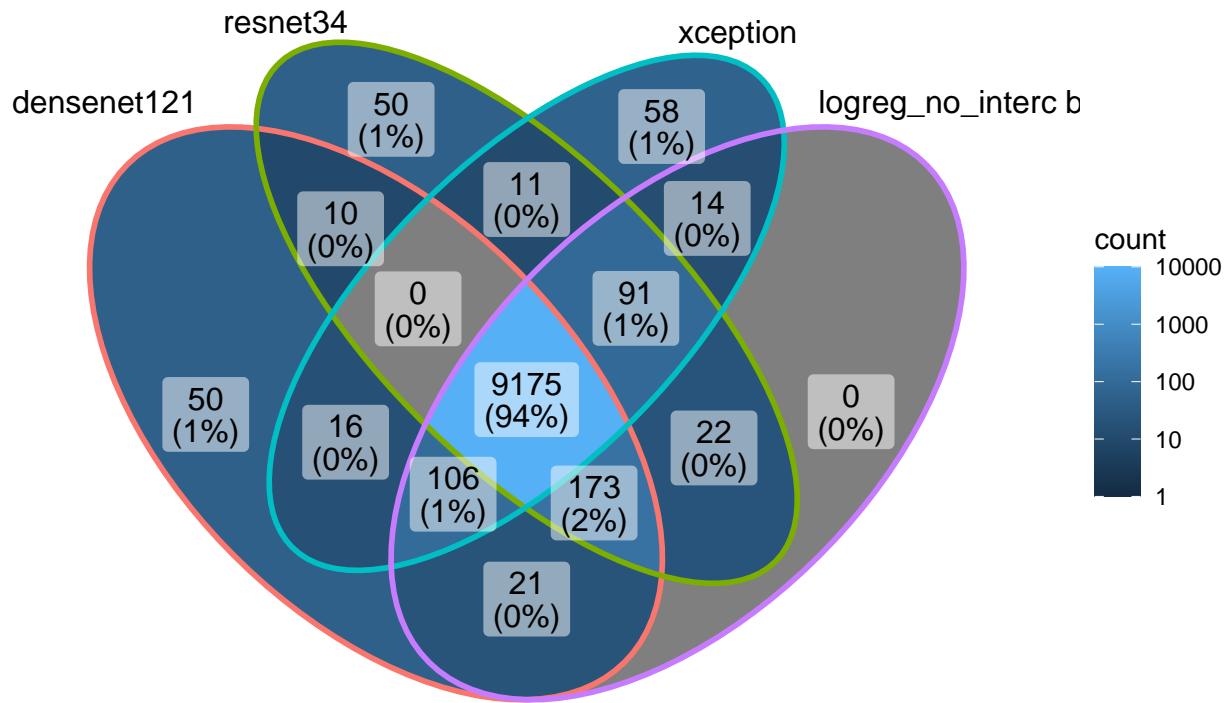


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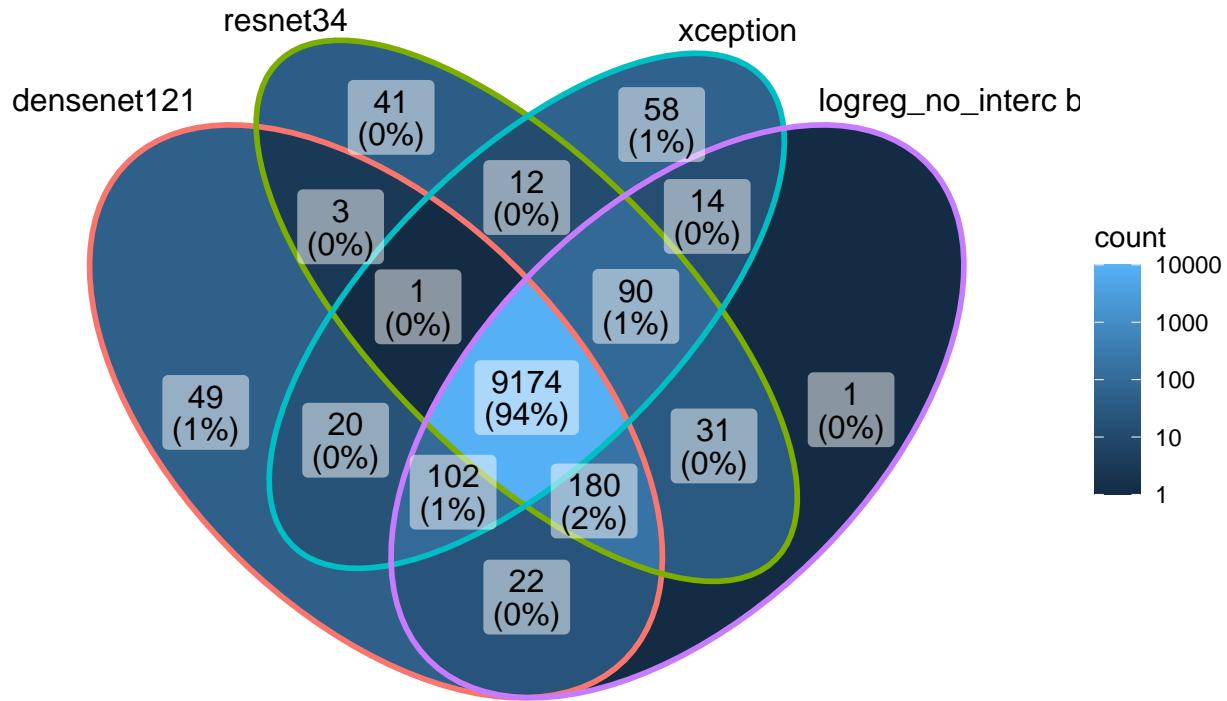


Warning: Transformation introduced infinite values in discrete y-axis

tt – replication 13

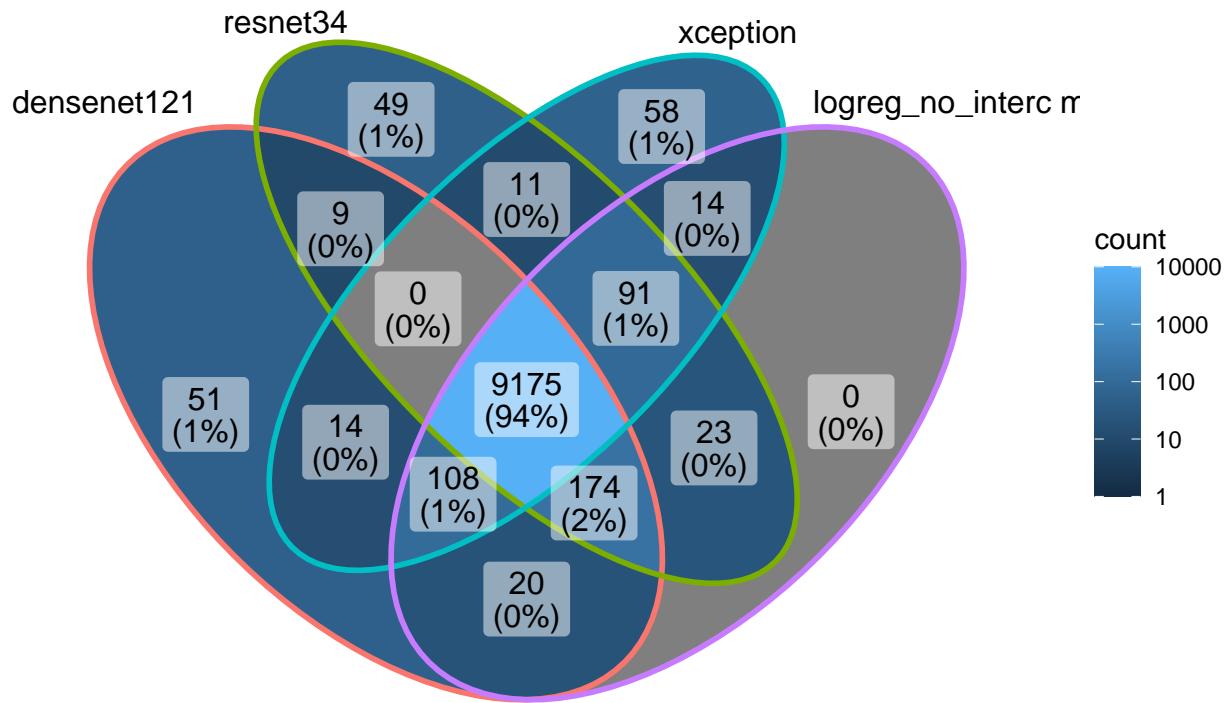


vt – replication 13

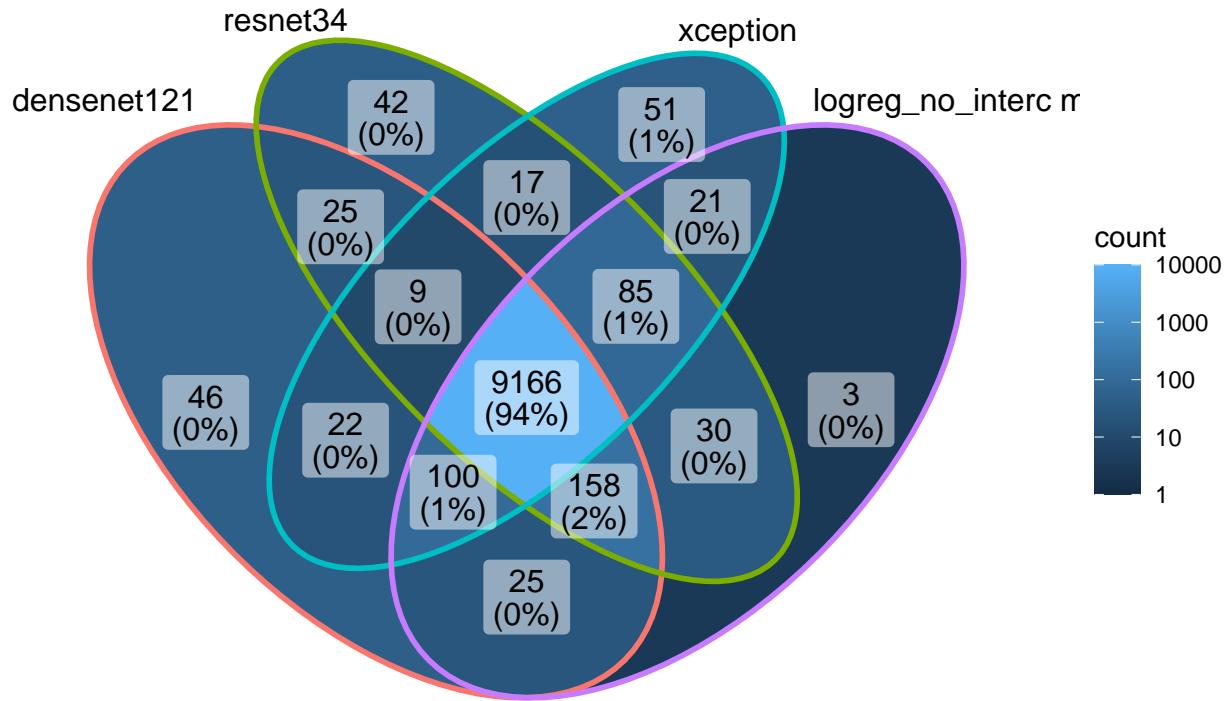


Warning: Transformation introduced infinite values in discrete y-axis

tt – replication 13

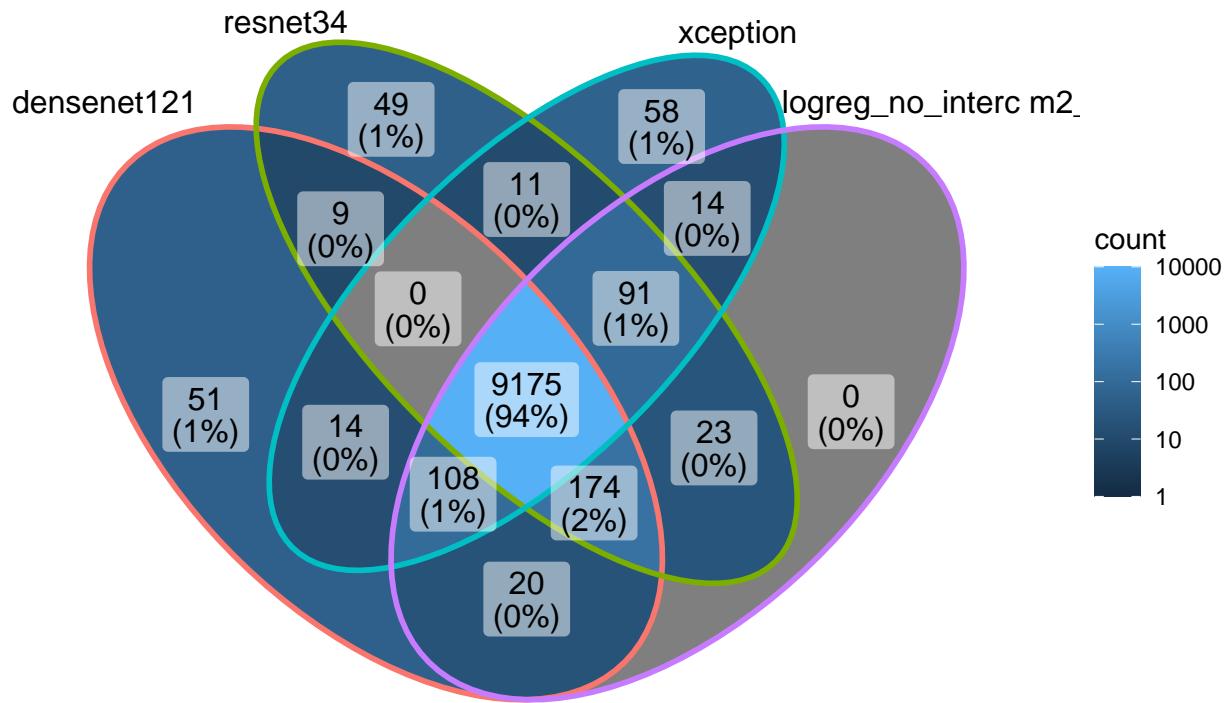


vt – replication 13

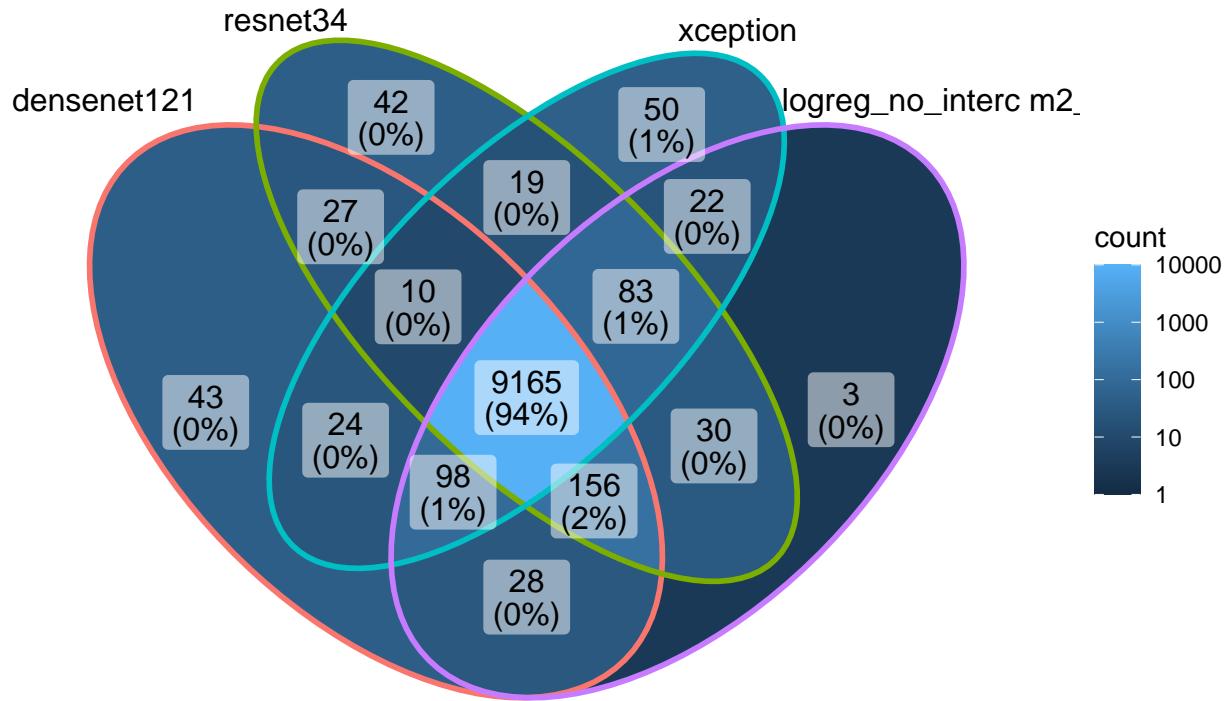


Warning: Transformation introduced infinite values in discrete y-axis

tt – replication 13

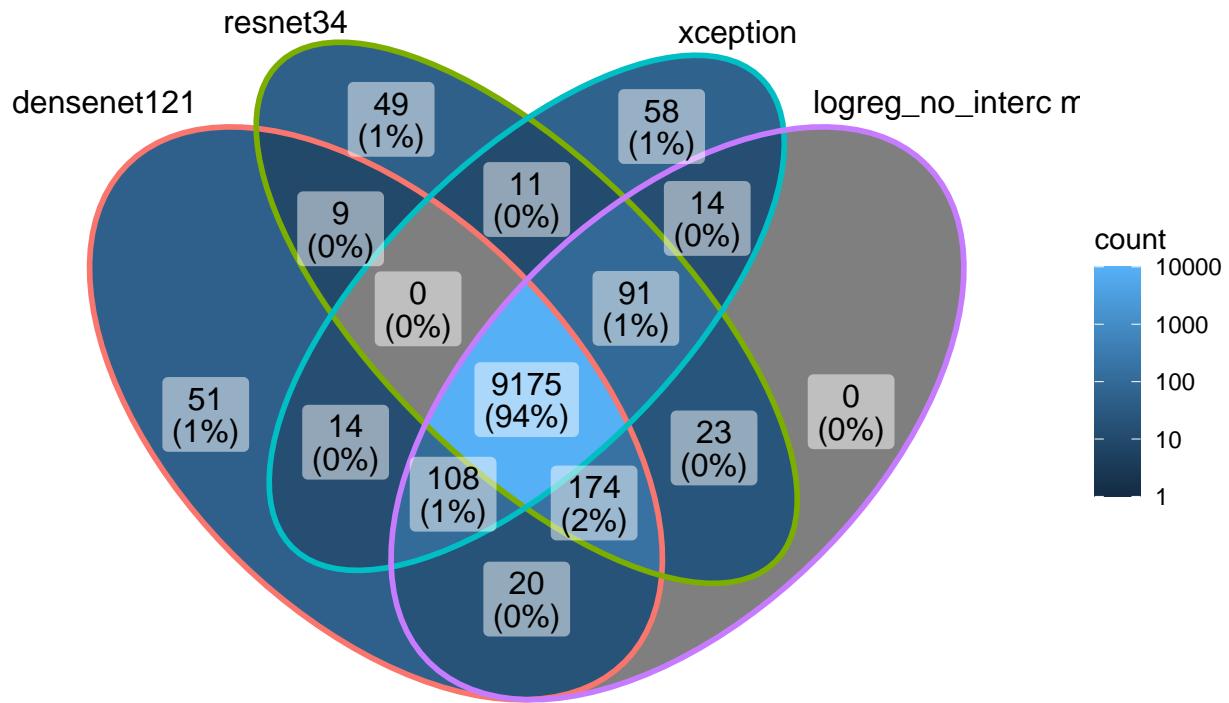


vt – replication 13

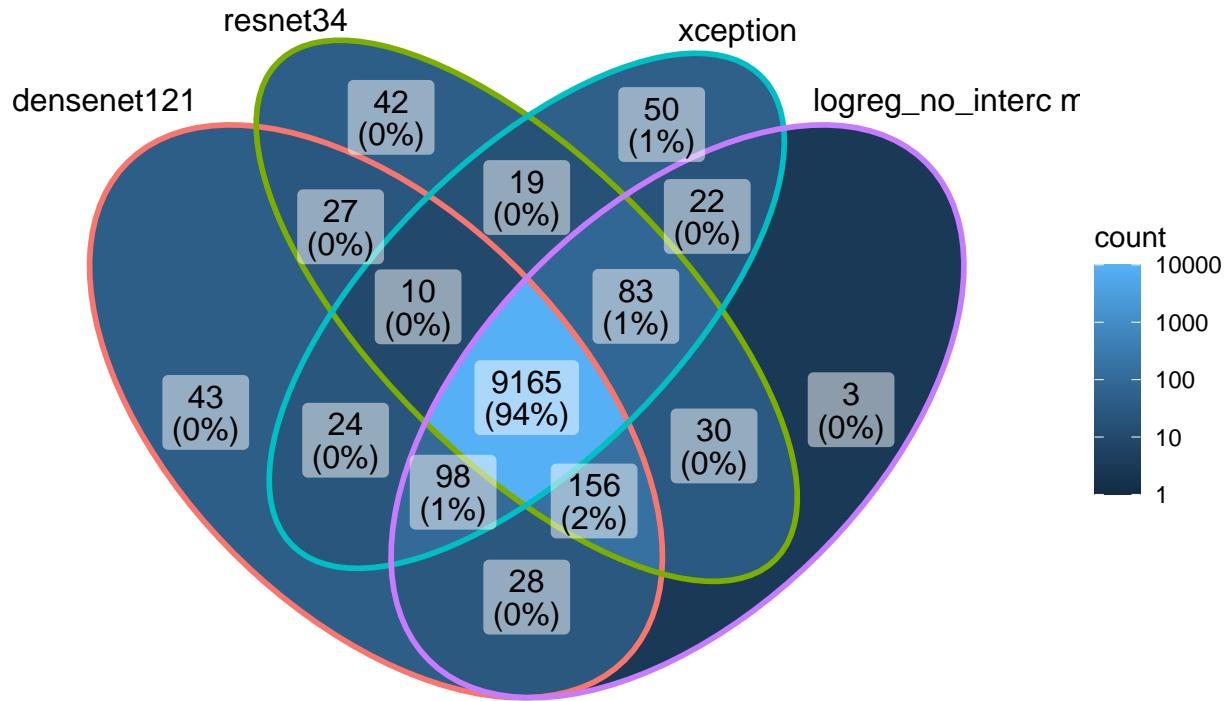


Warning: Transformation introduced infinite values in discrete y-axis

tt – replication 13

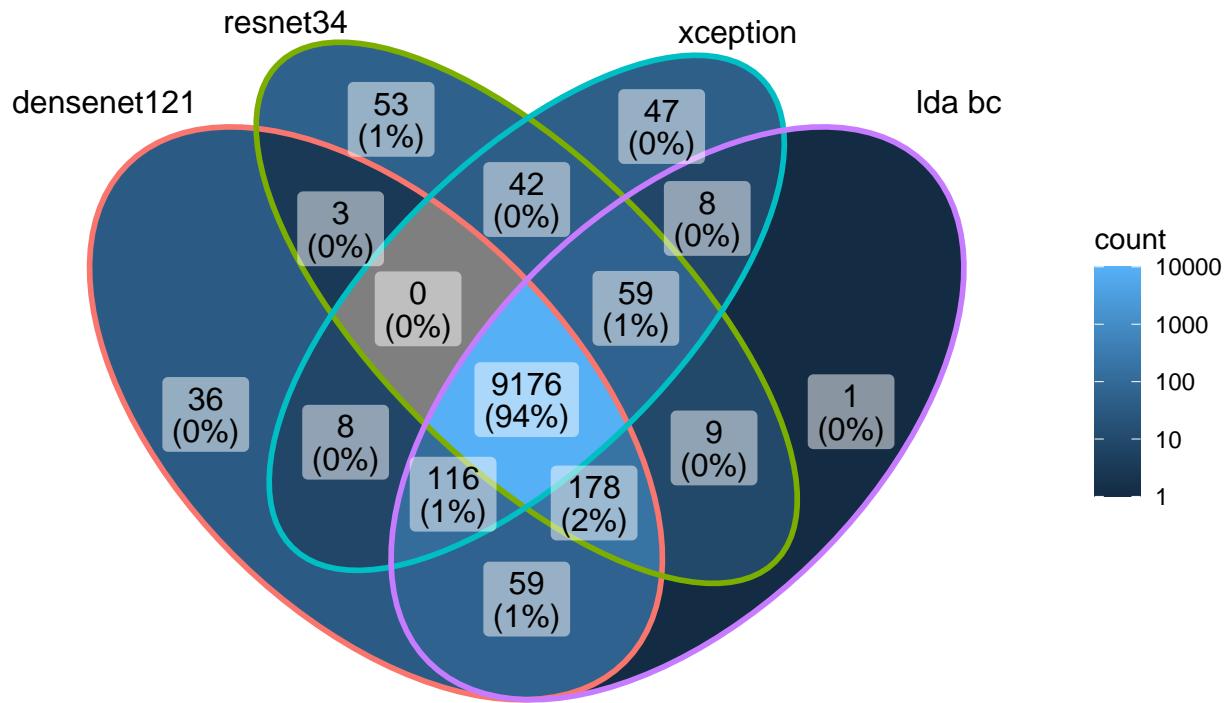


vt – replication 13

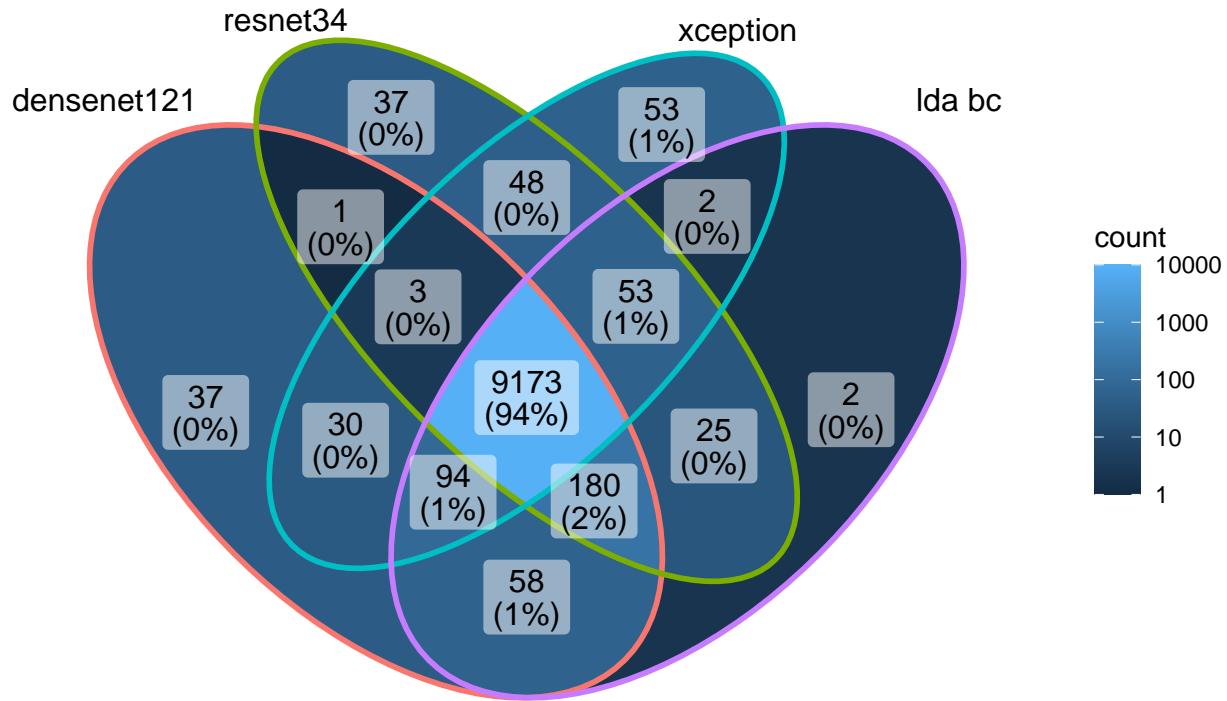


Warning: Transformation introduced infinite values in discrete y-axis

tt – replication 14

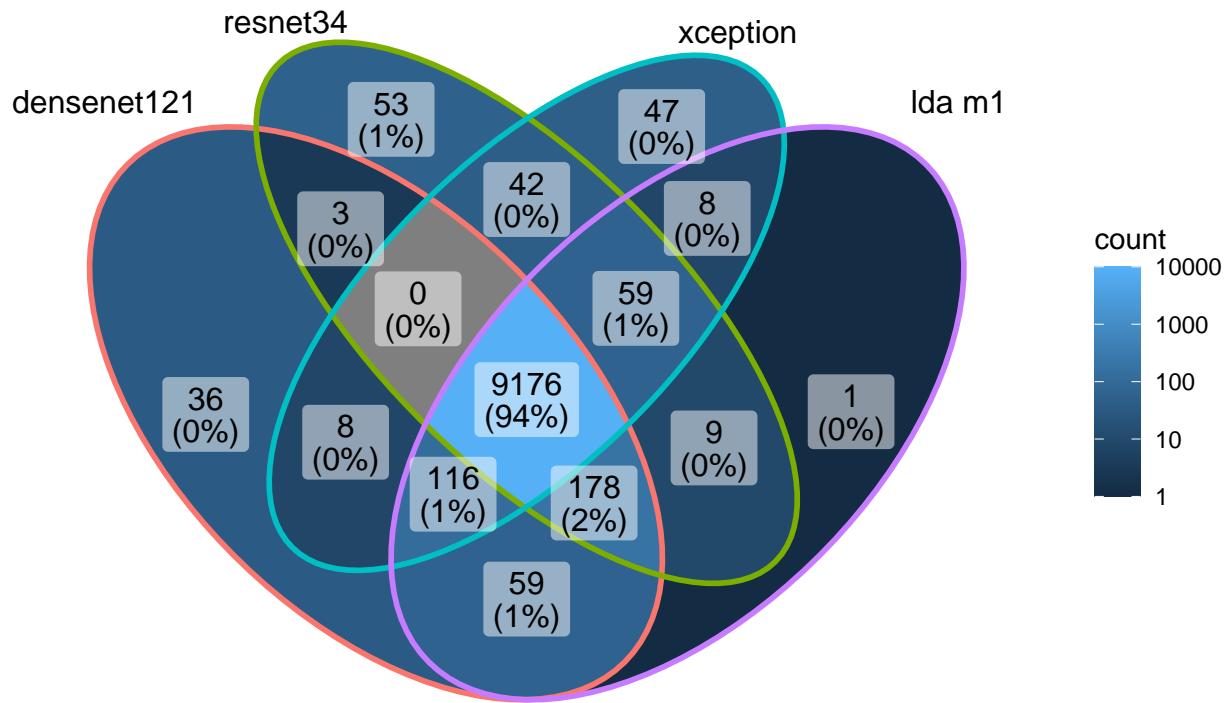


vt – replication 14



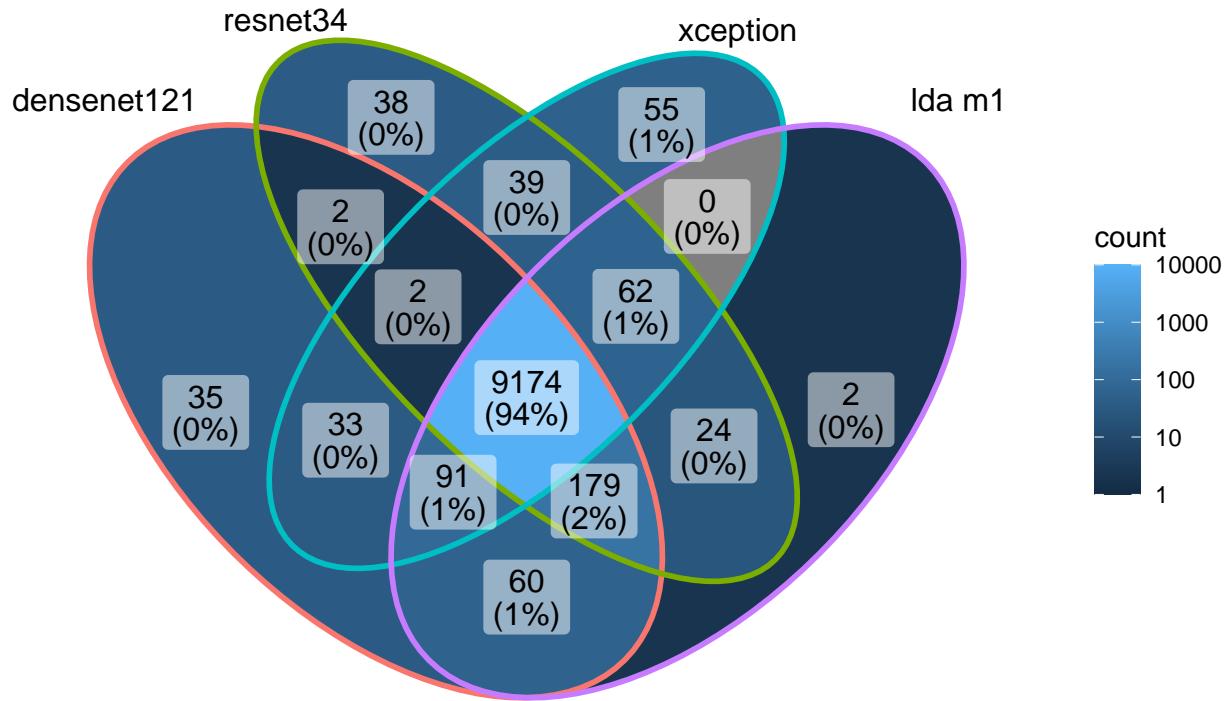
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tt – replication 14



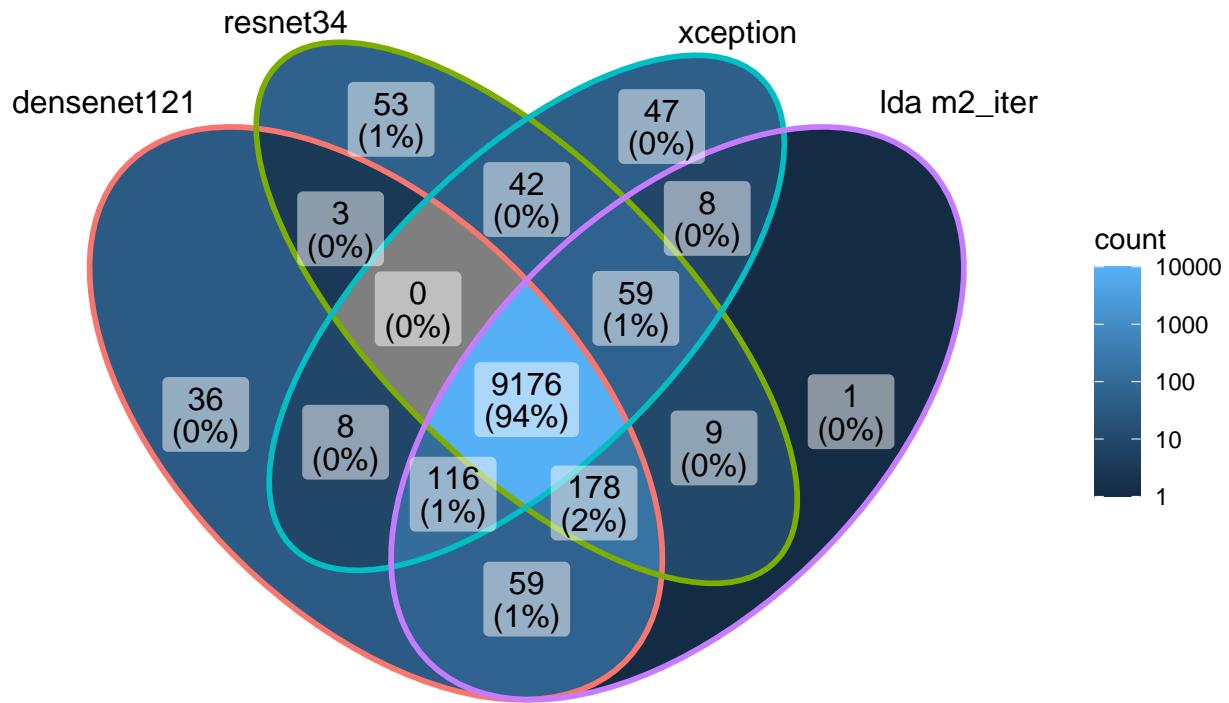
Warning: Transformation introduced infinite values in discrete y-axis

vt – replication 14



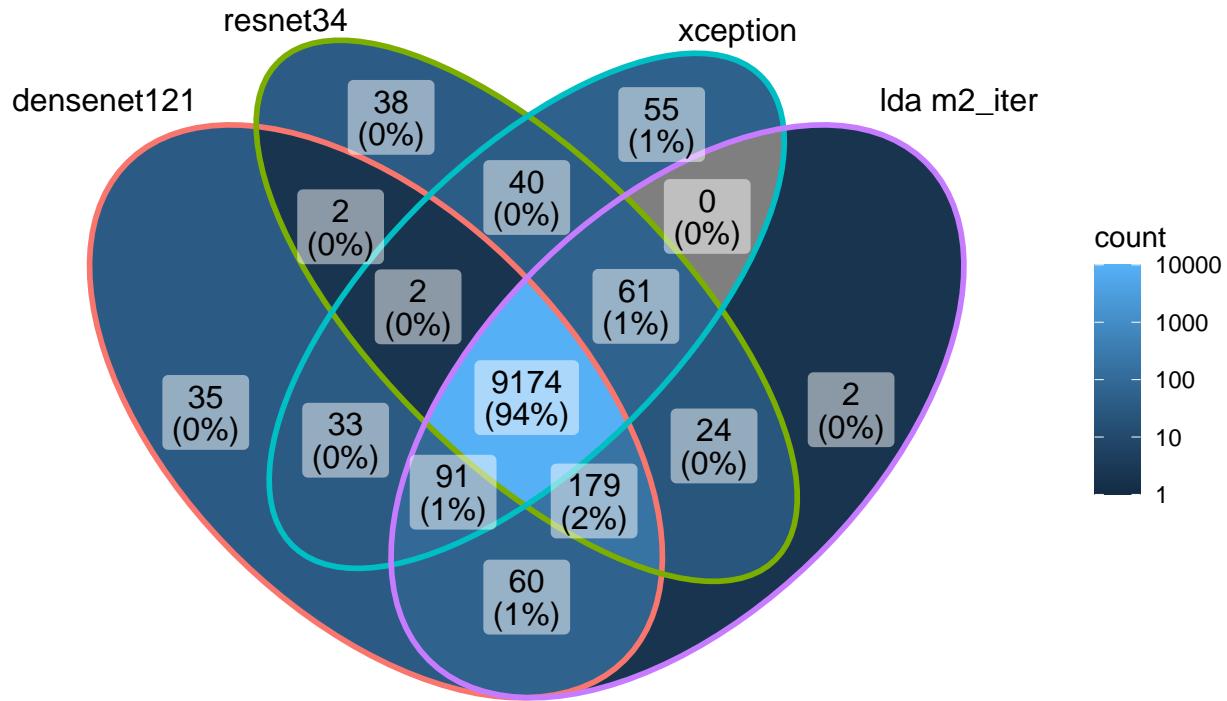
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tt – replication 14



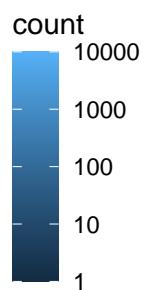
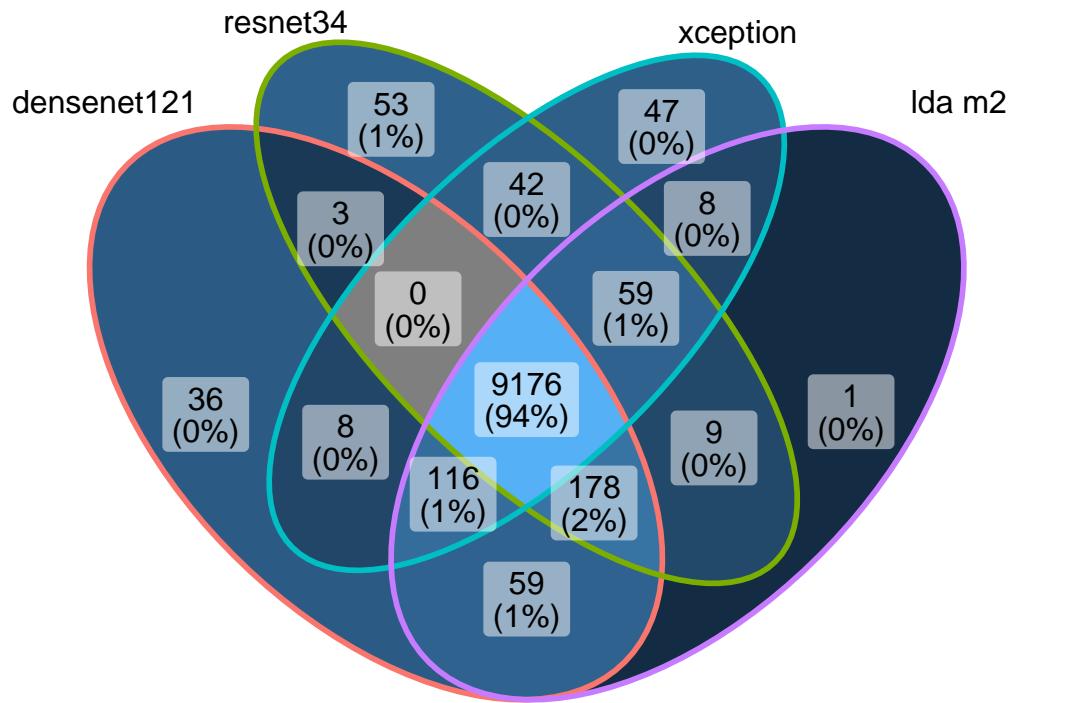
Warning: Transformation introduced infinite values in discrete y-axis

vt – replication 14



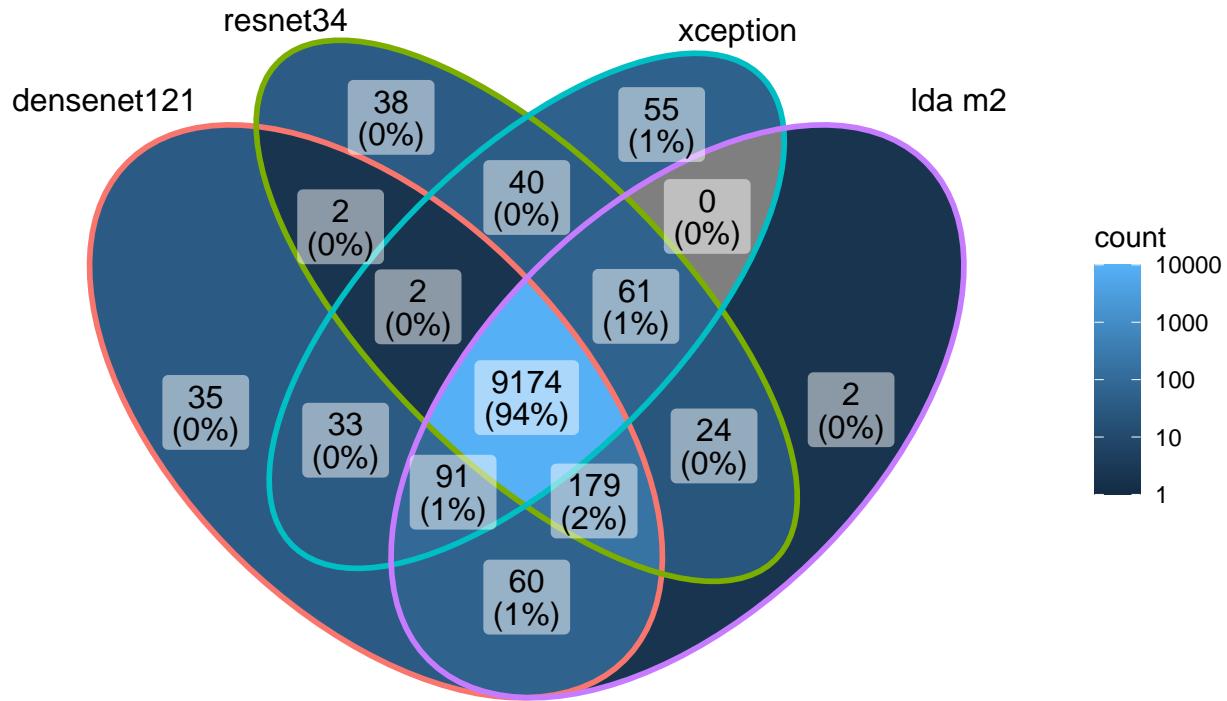
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tt – replication 14



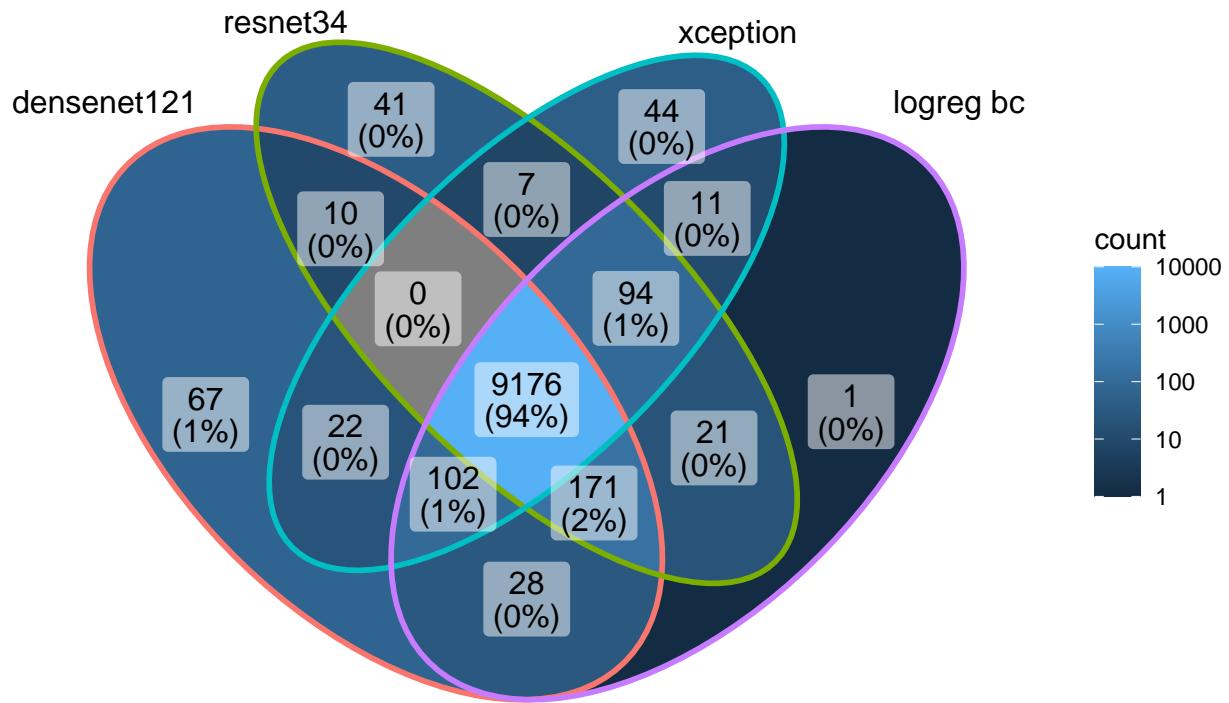
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vt – replication 14

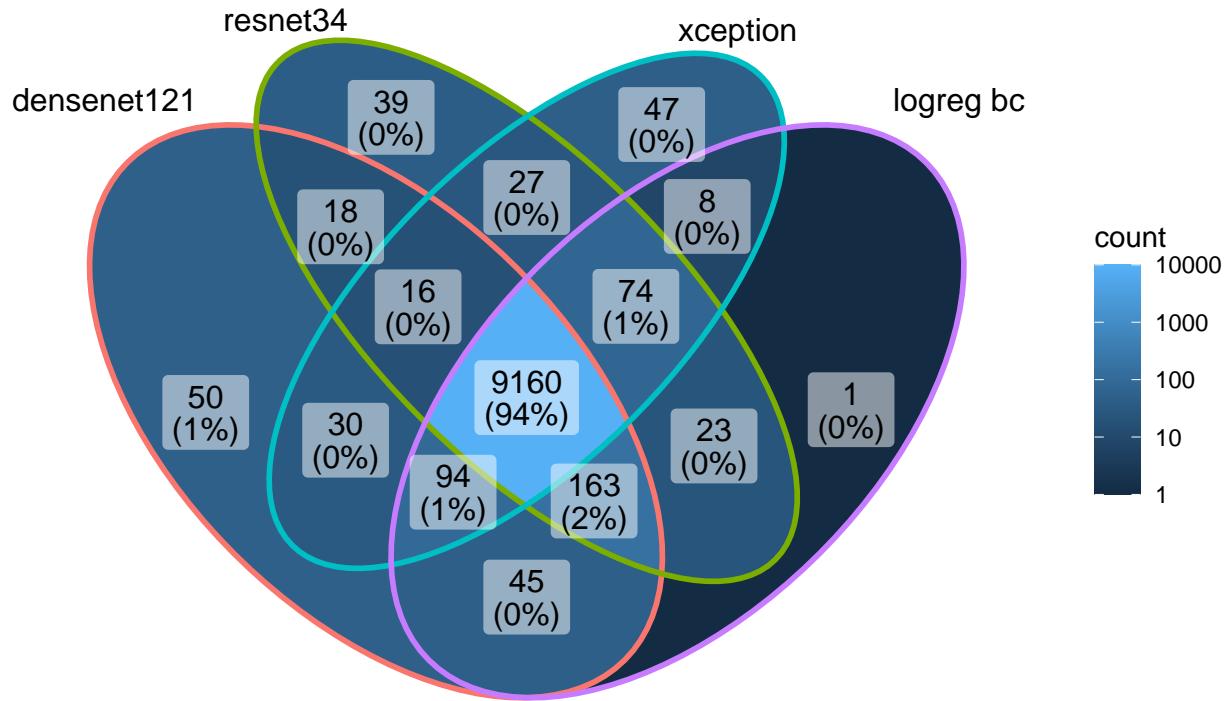


Warning: Transformation introduced infinite values in discrete y-axis

tt – replication 14

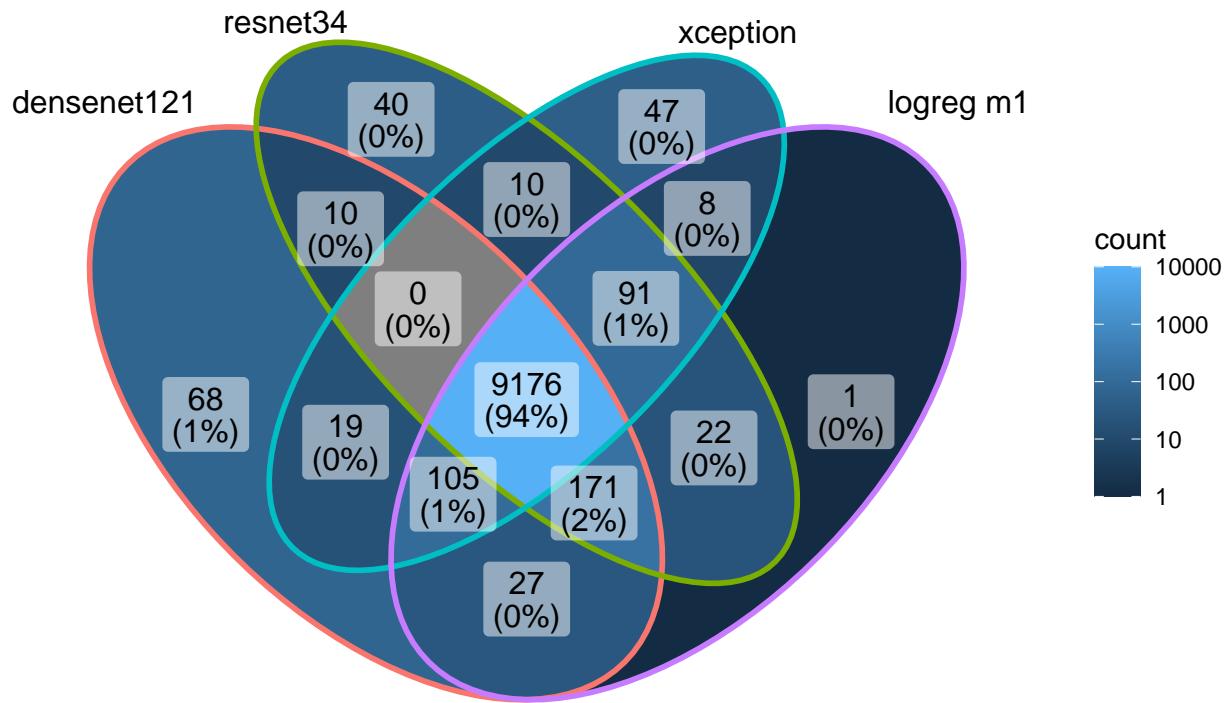


vt – replication 14

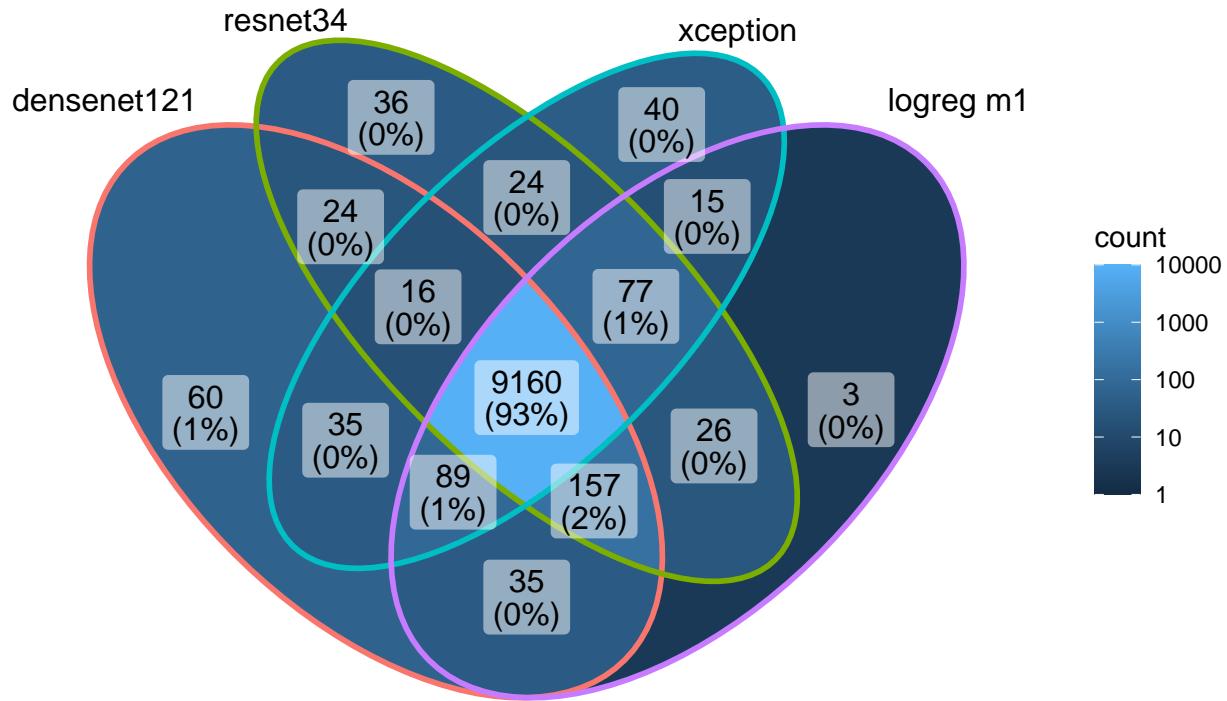


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tt – replication 14

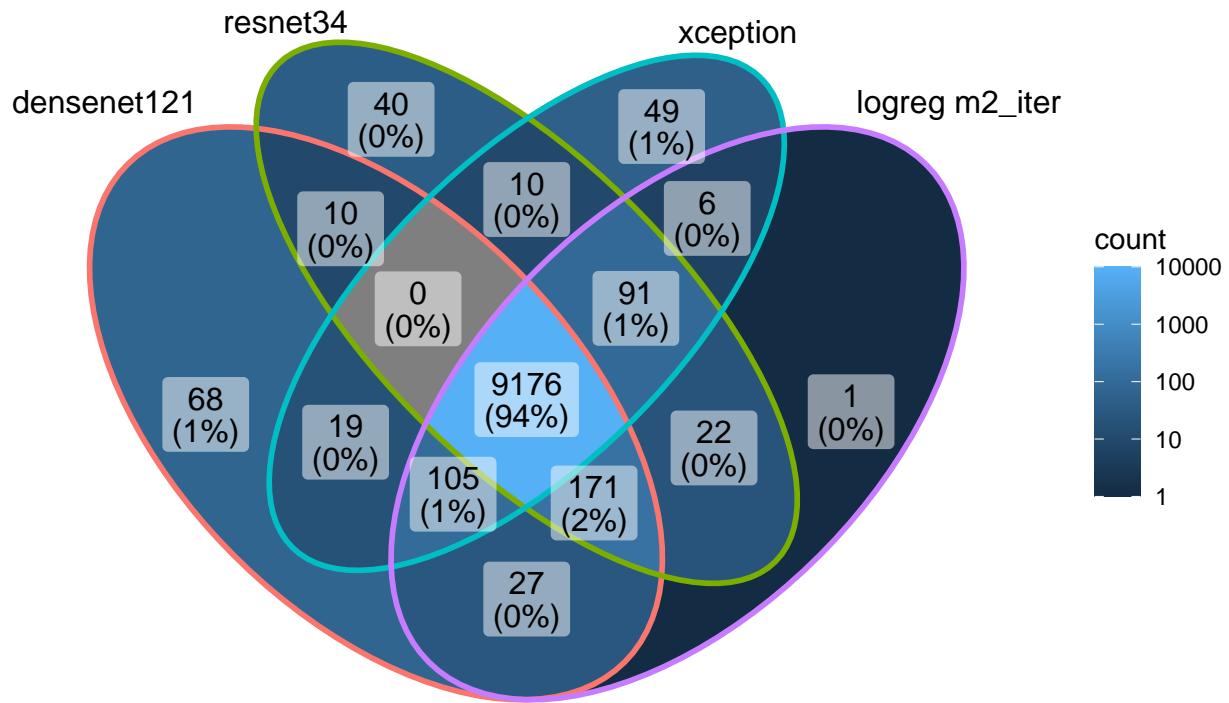


vt – replication 14

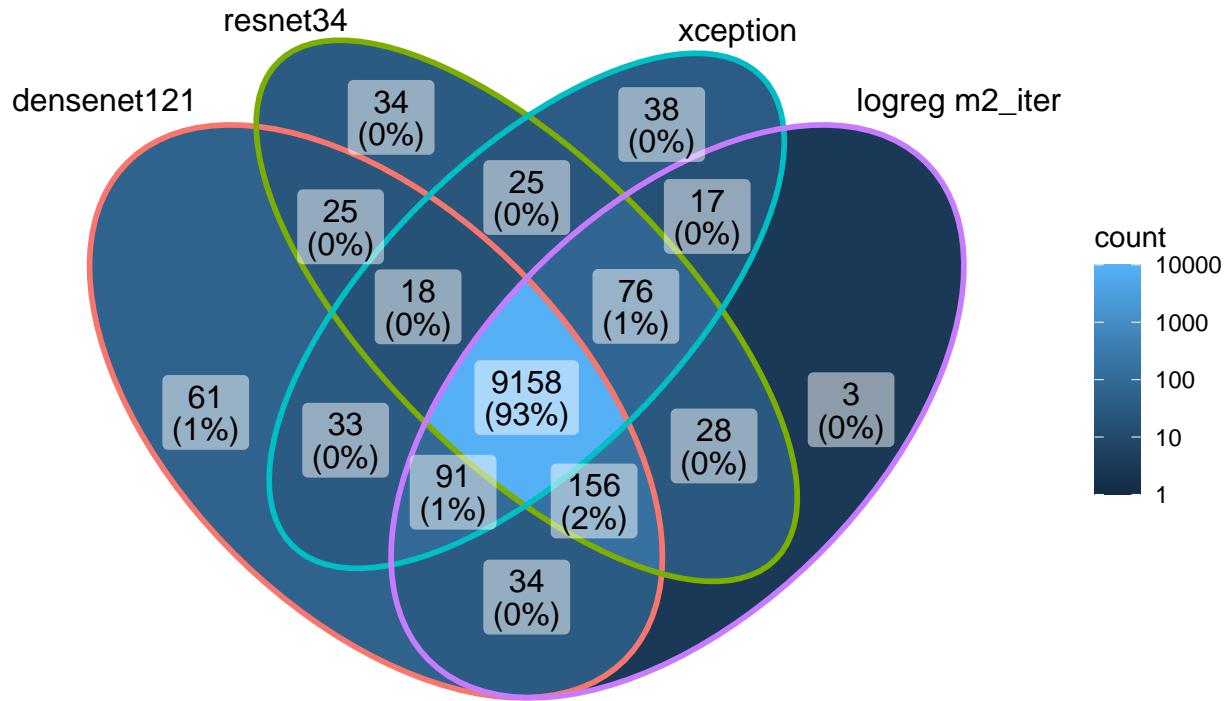


Warning: Transformation introduced infinite values in discrete y-axis

tt – replication 14

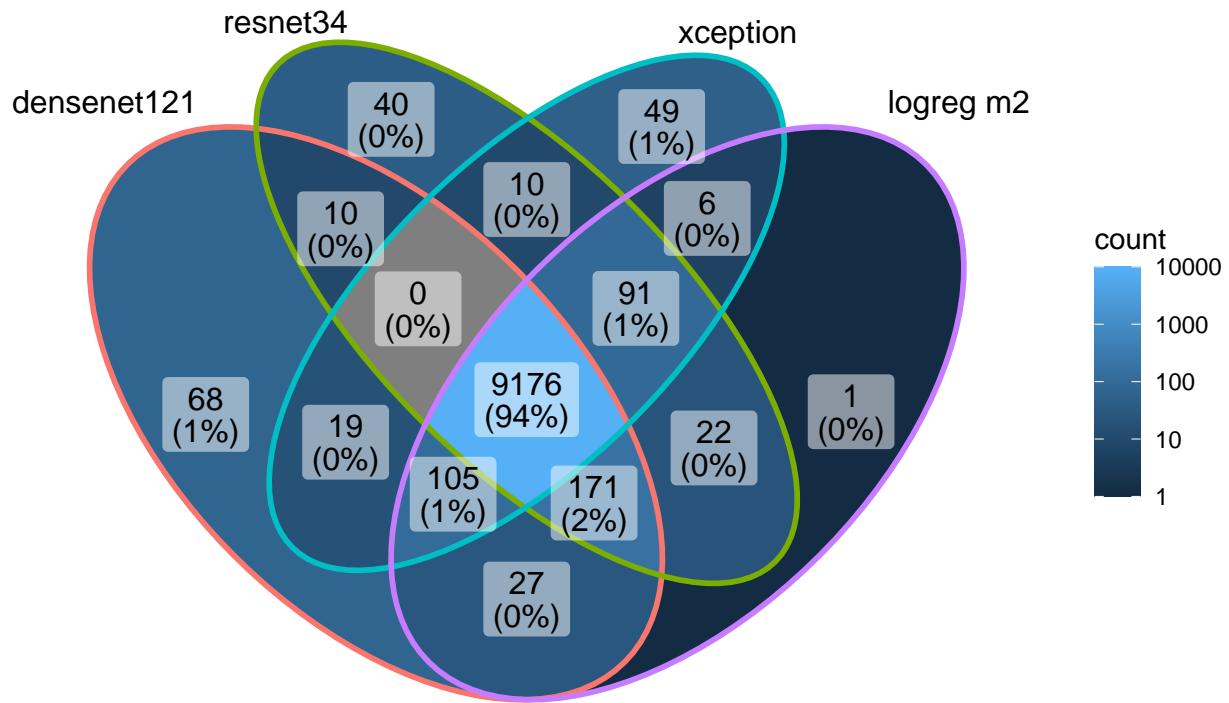


vt – replication 14

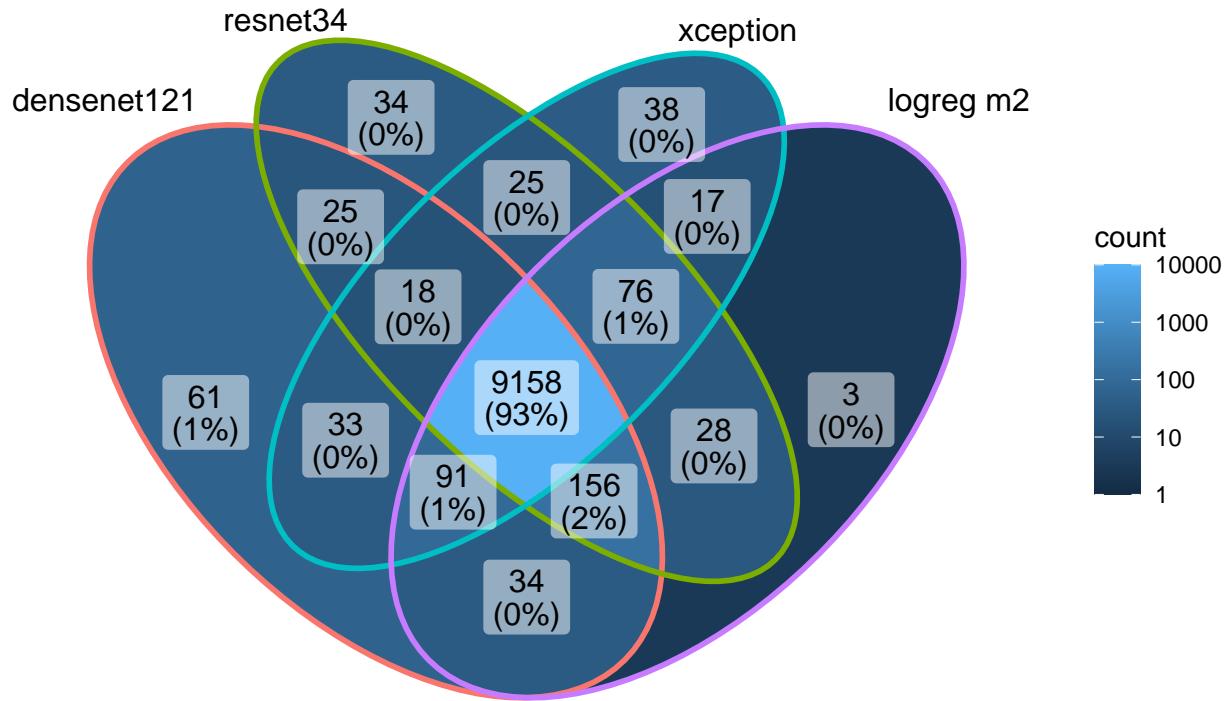


Warning: Transformation introduced infinite values in discrete y-axis

tt – replication 14

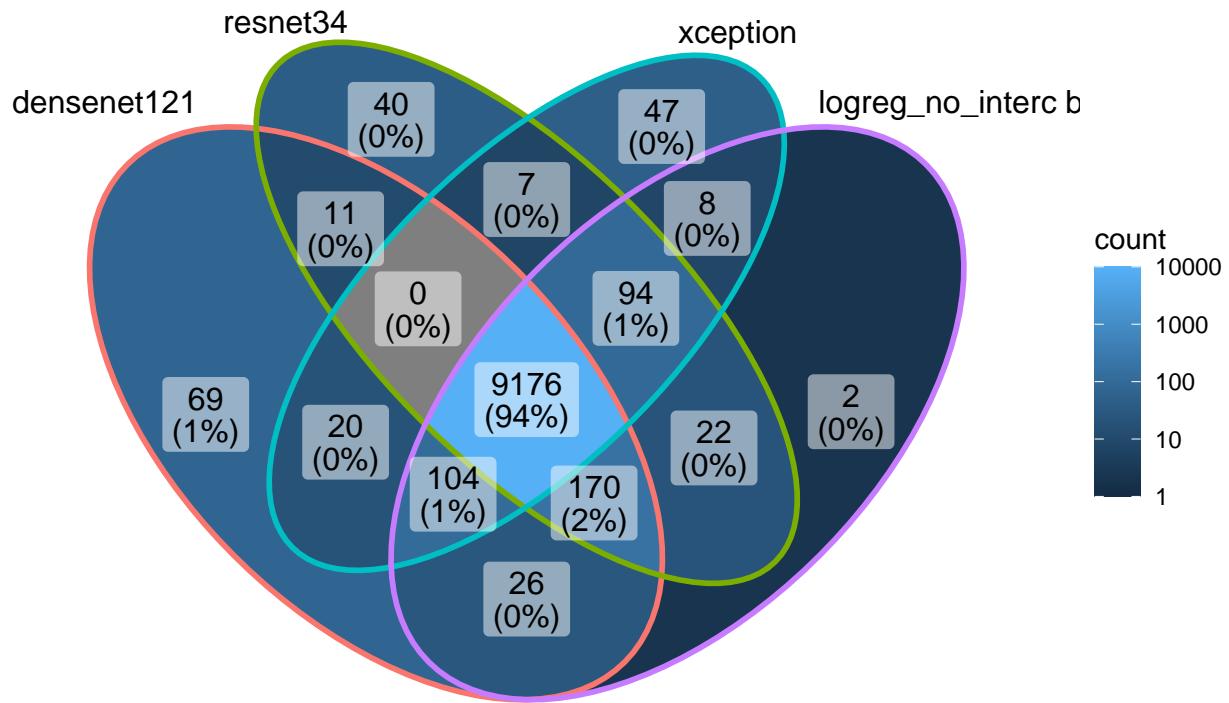


vt – replication 14



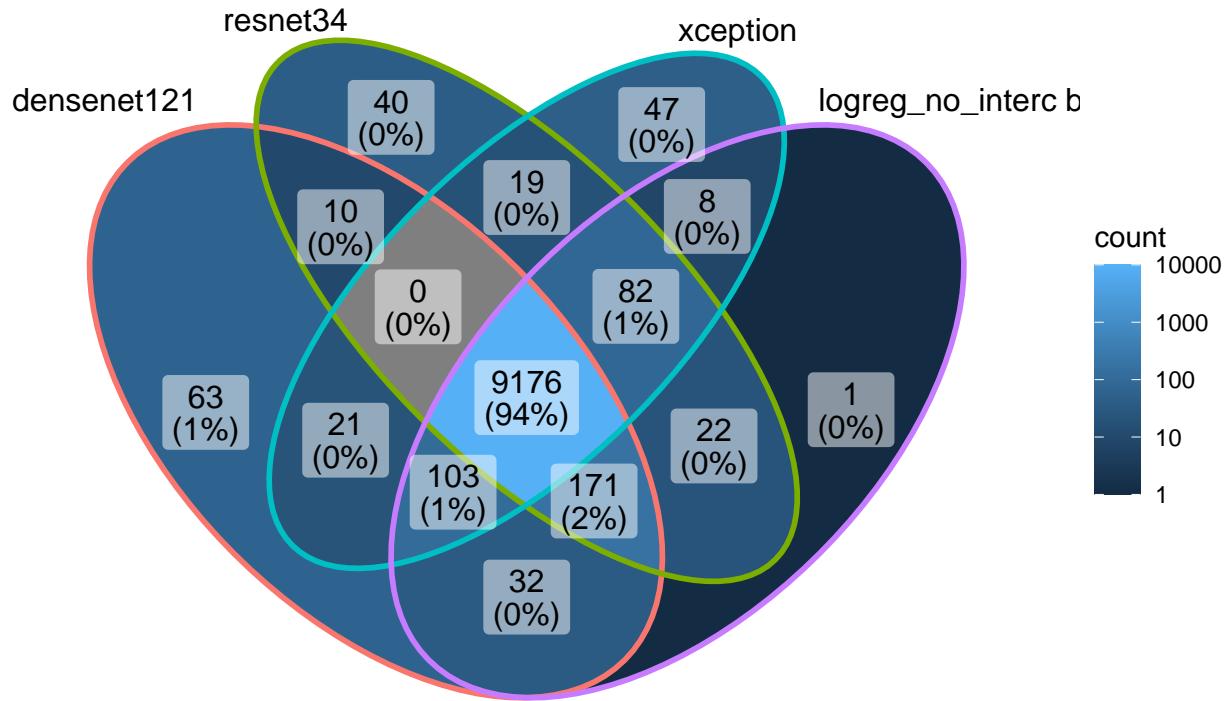
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tt – replication 14



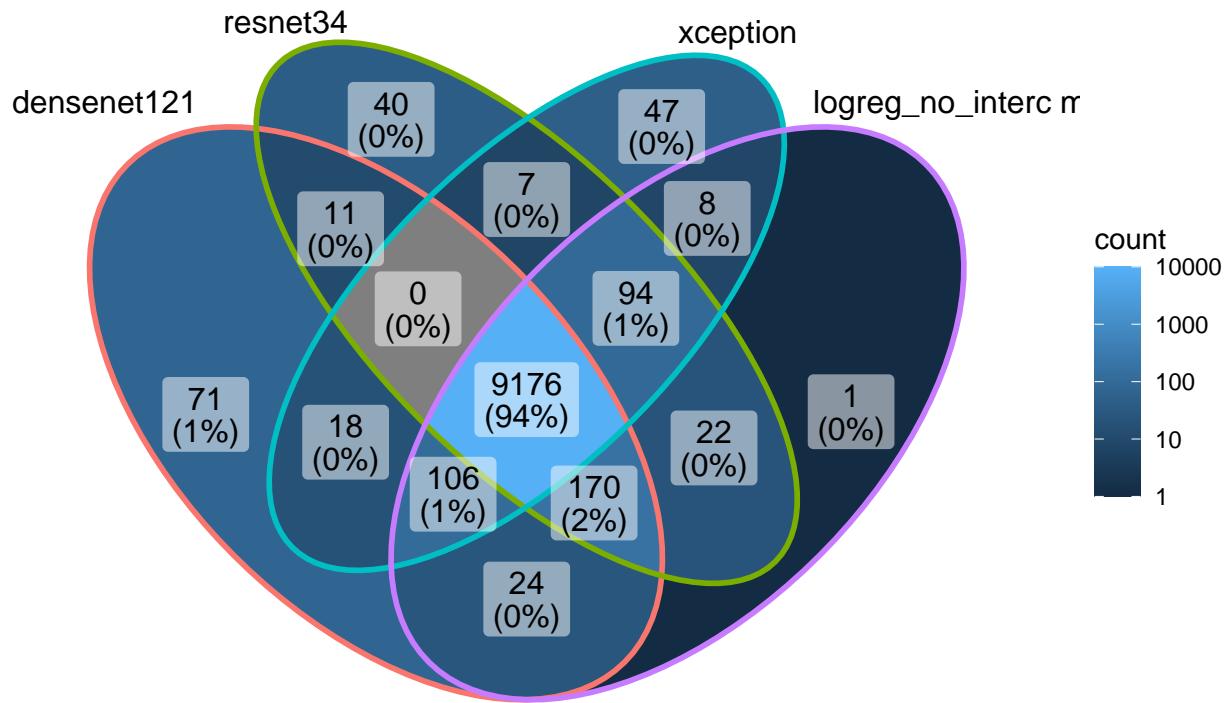
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vt – replication 14

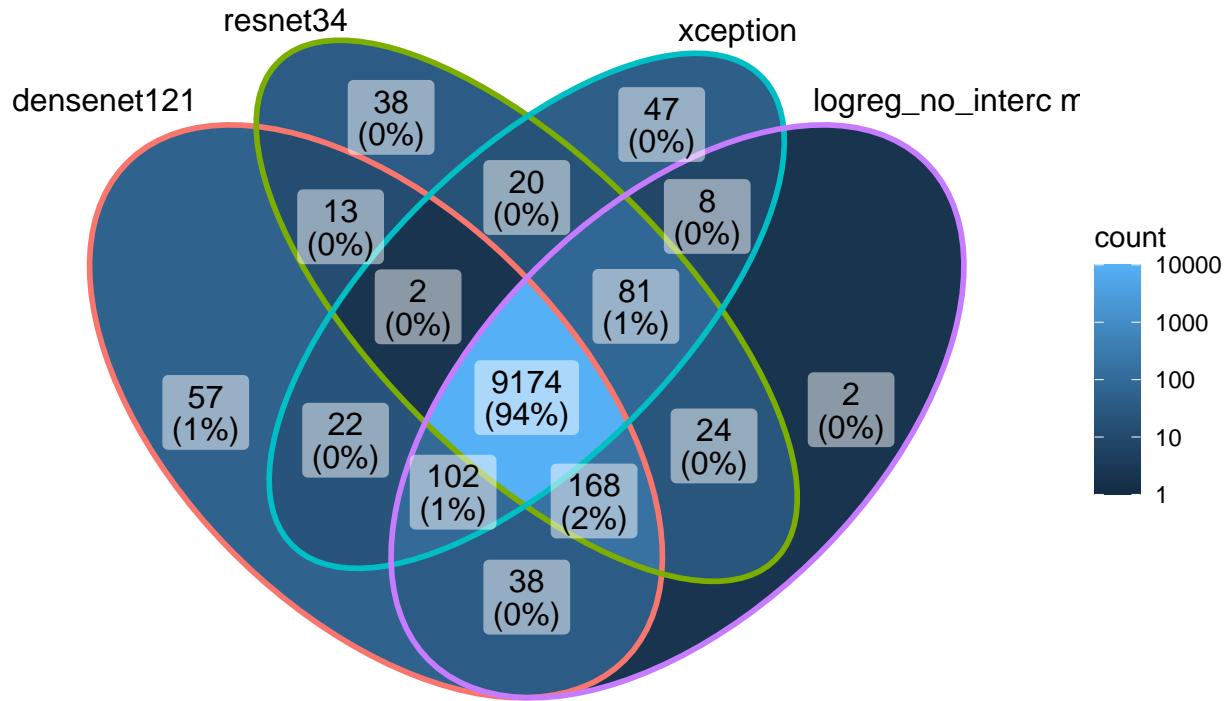


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tt – replication 14

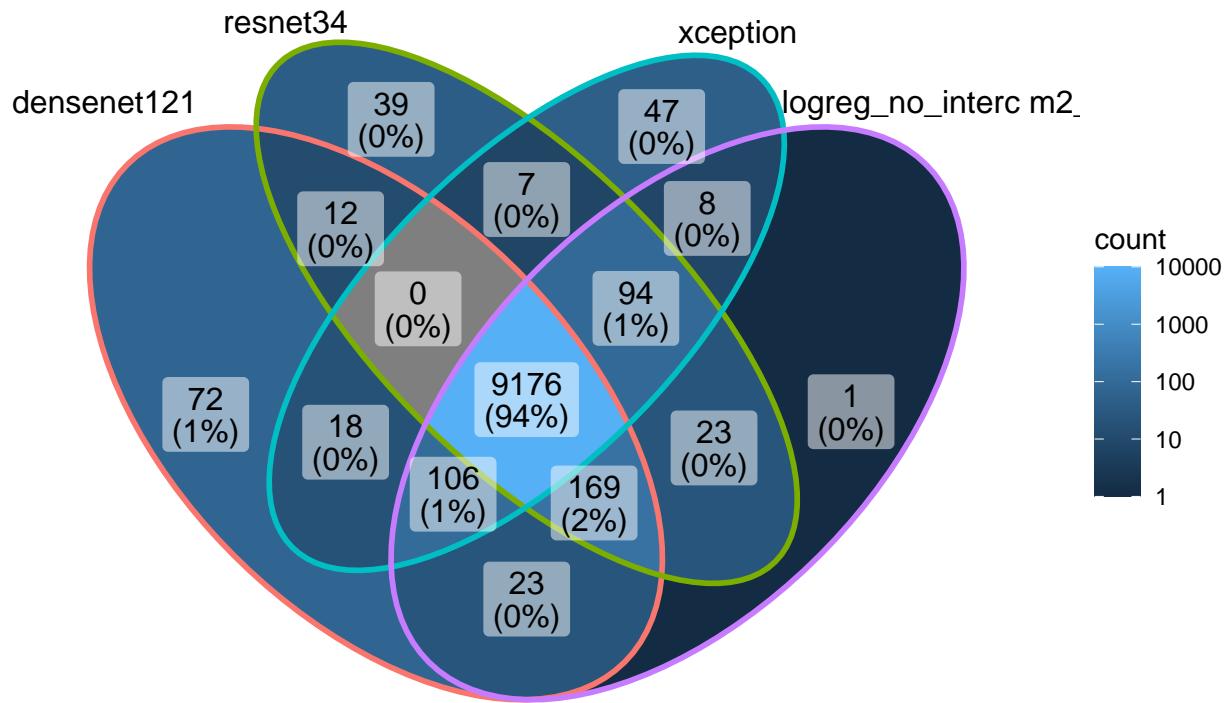


vt – replication 14

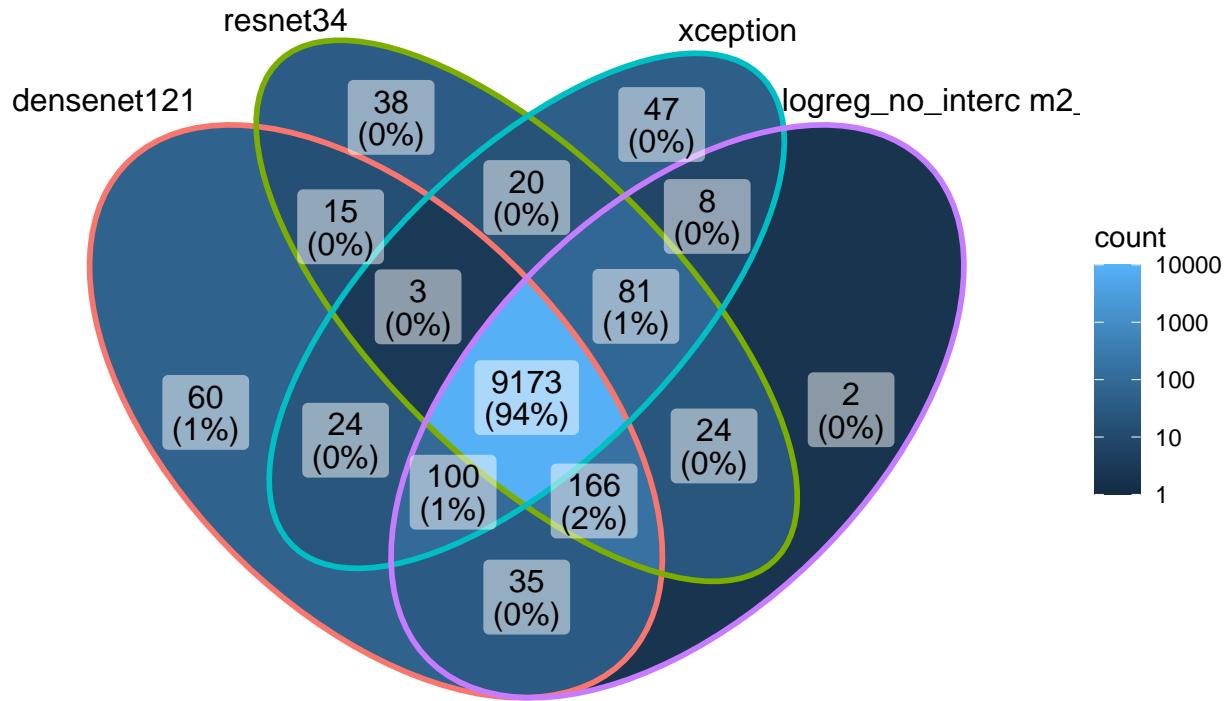


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tt – replication 14

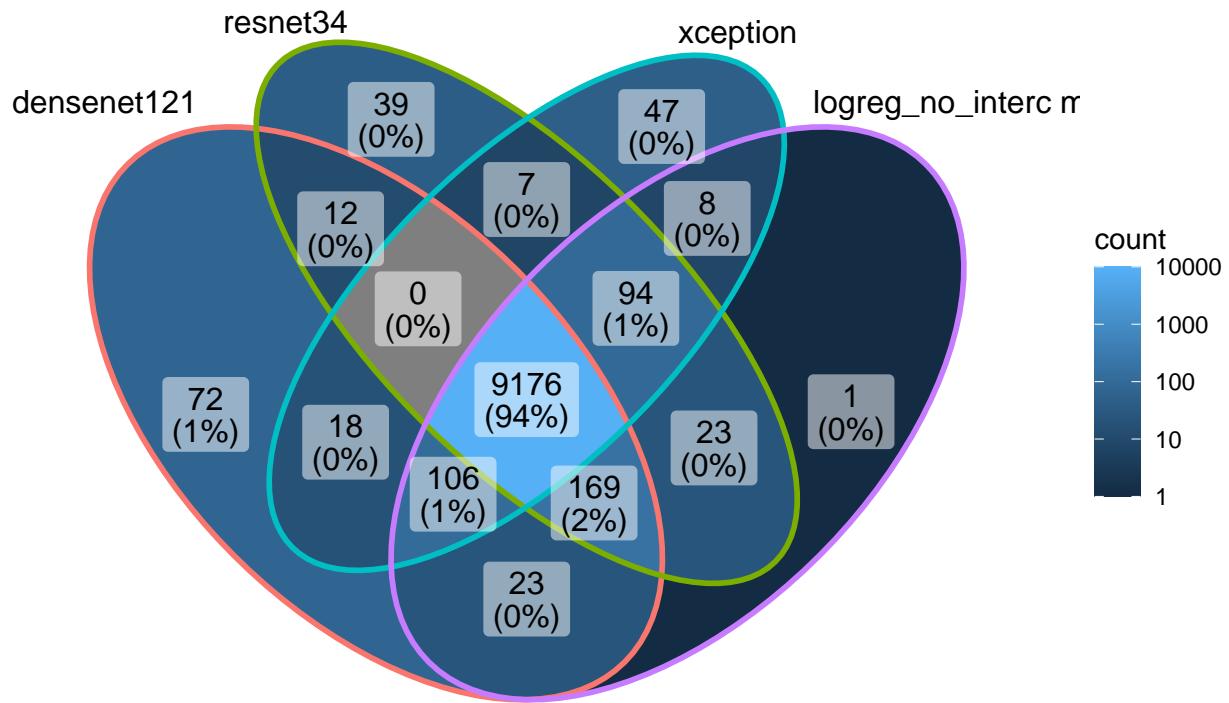


vt – replication 14

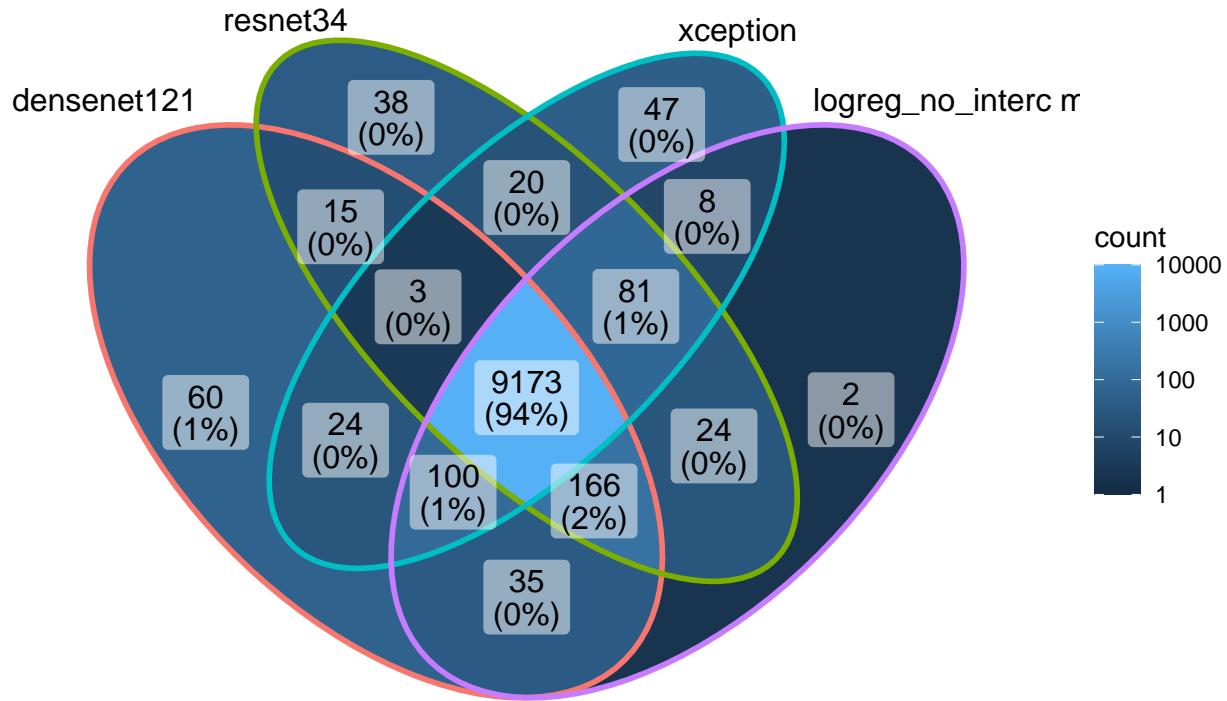


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tt – replication 14

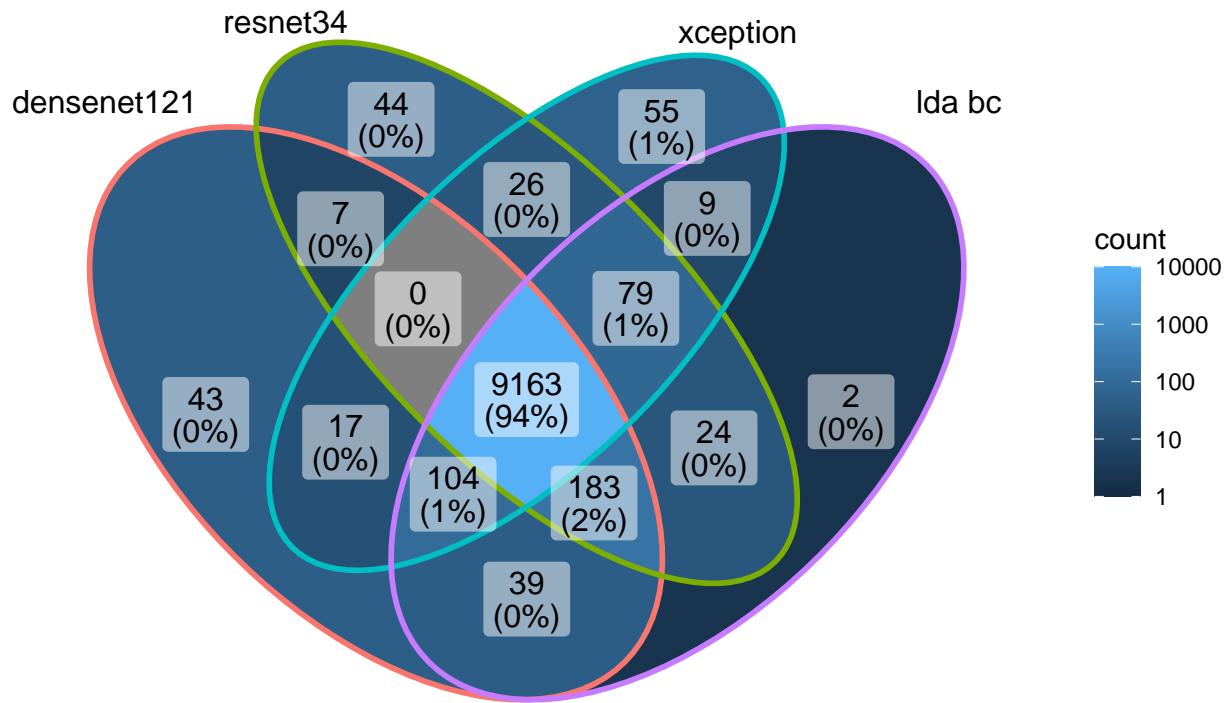


vt – replication 14

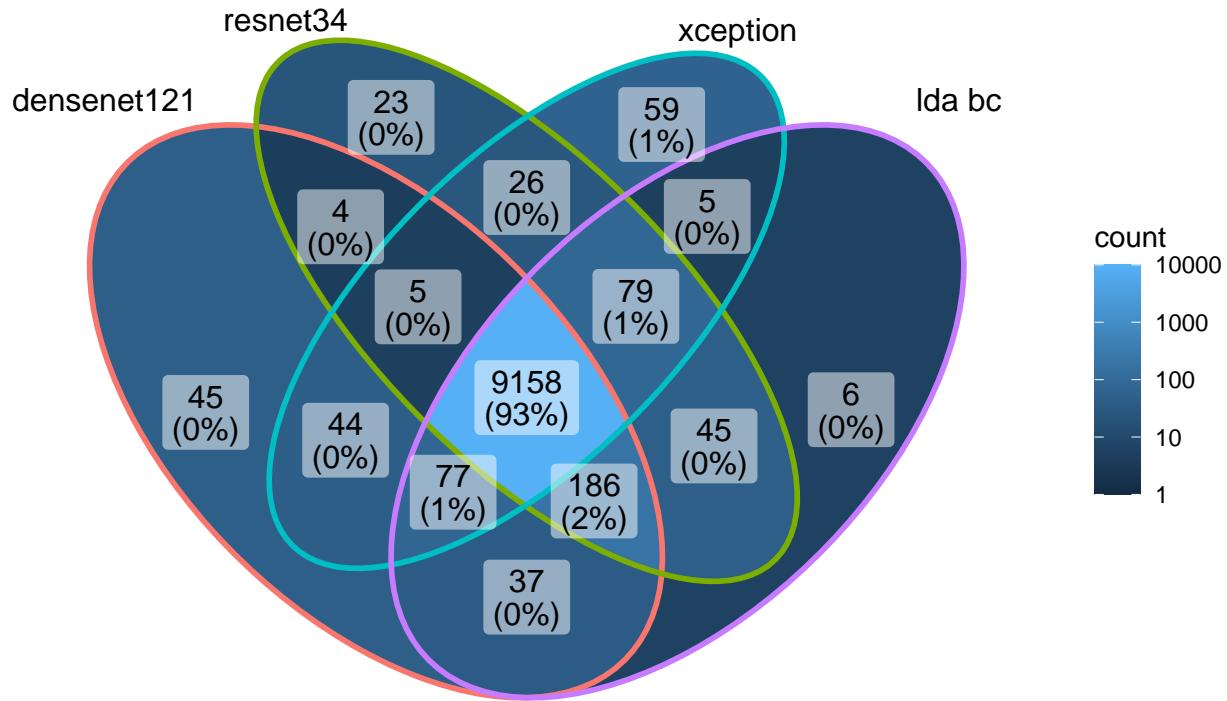


Warning: Transformation introduced infinite values in discrete y-axis

tt – replication 15

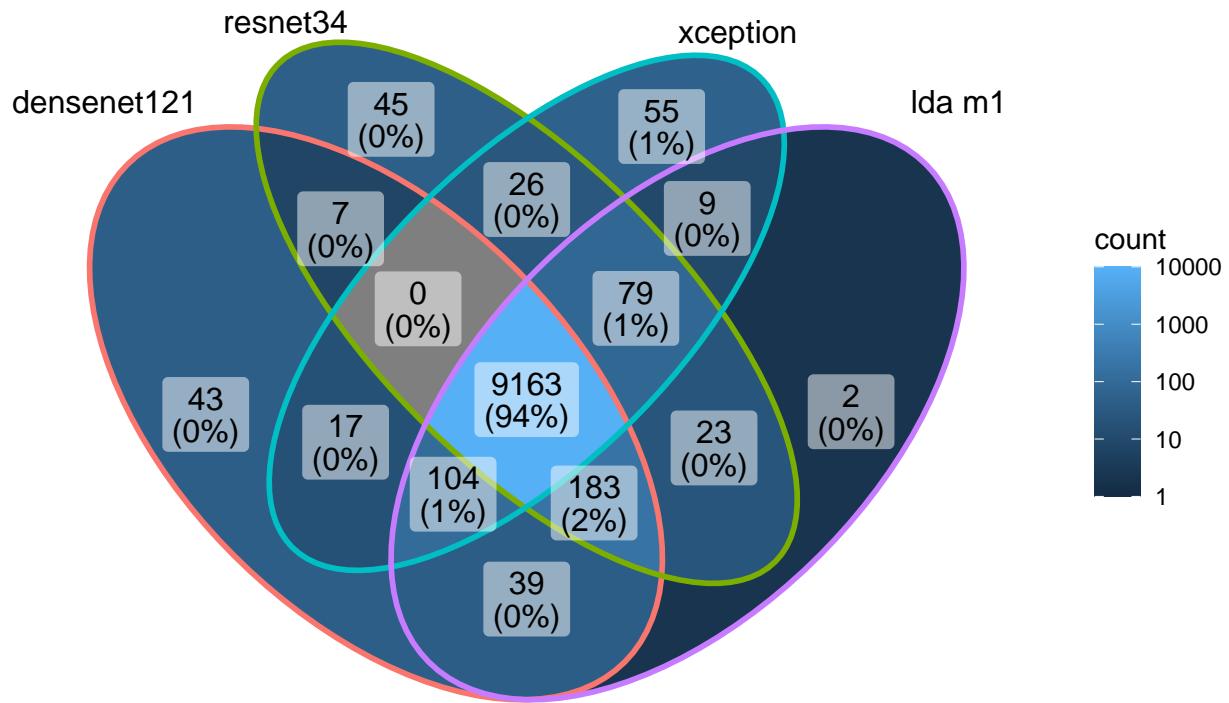


vt – replication 15

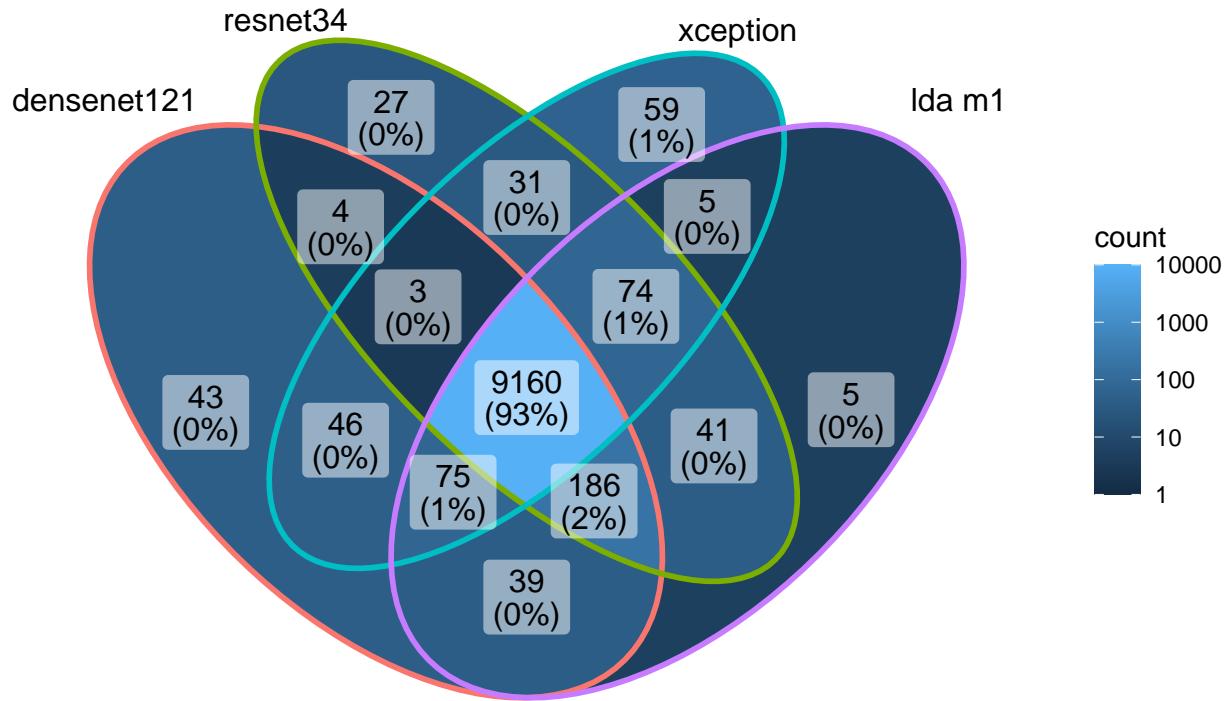


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tt – replication 15

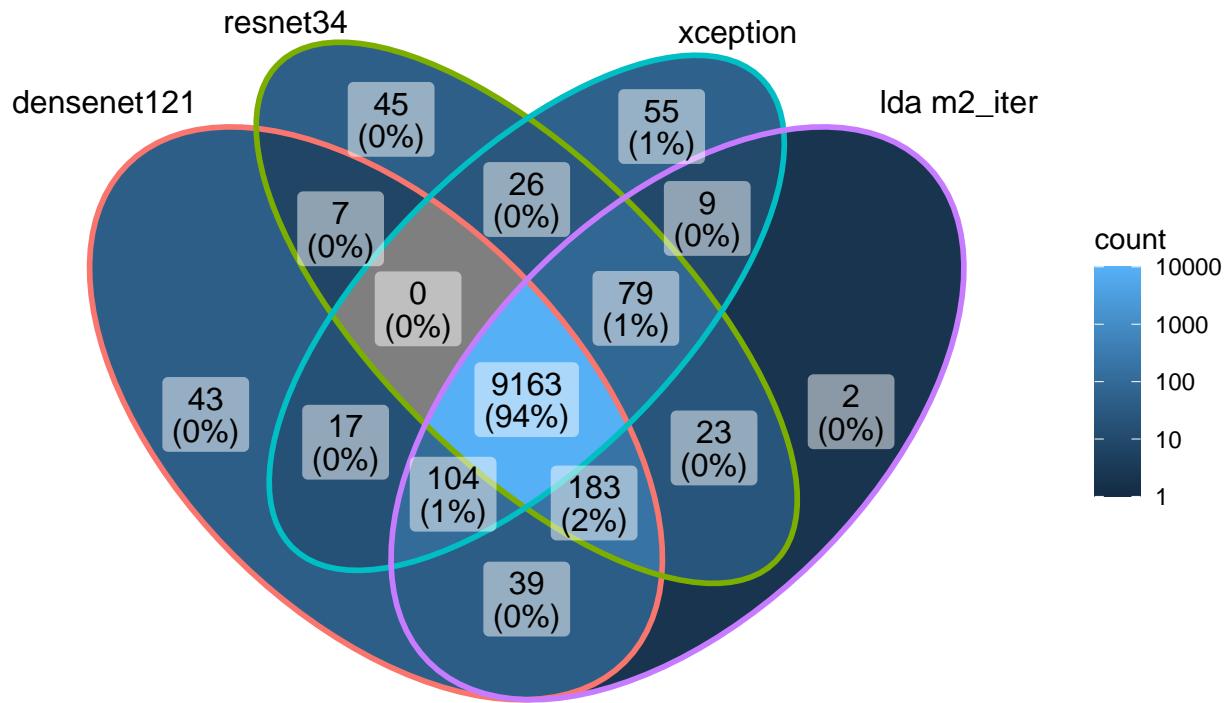


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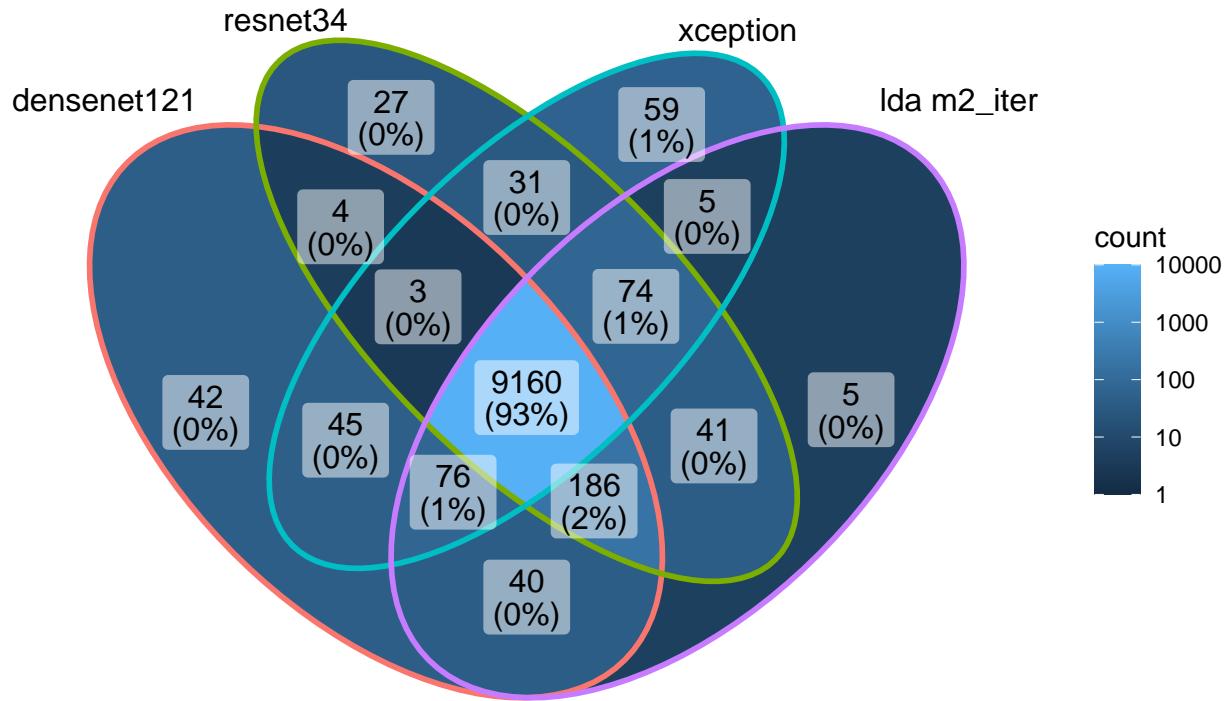


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tt – replication 15

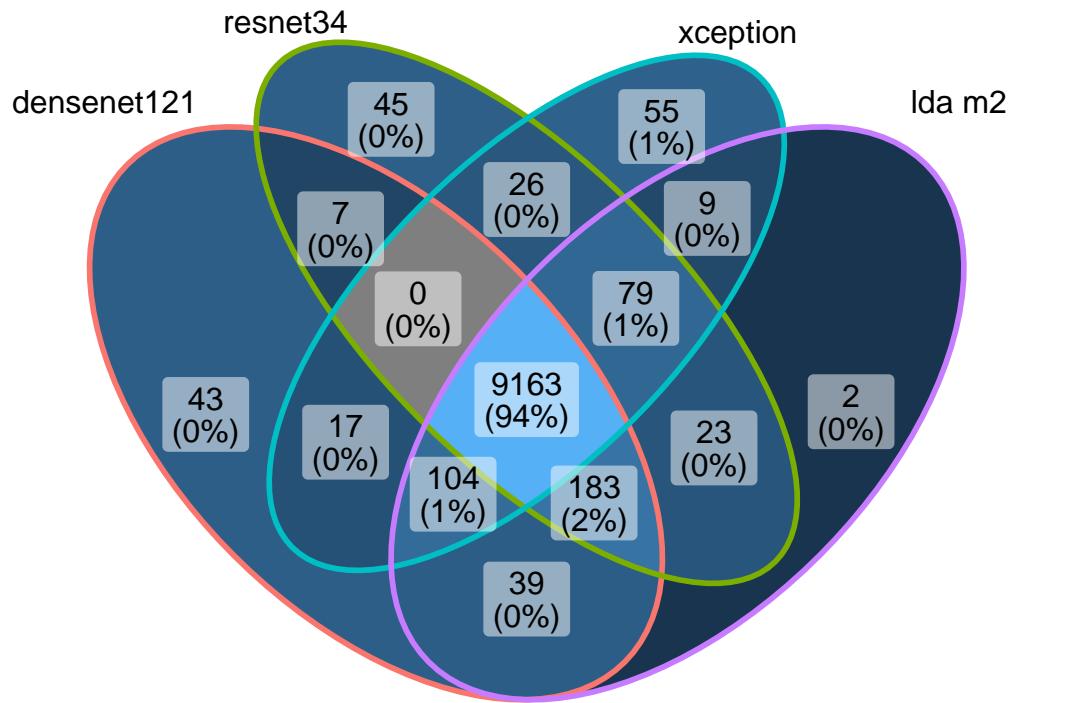


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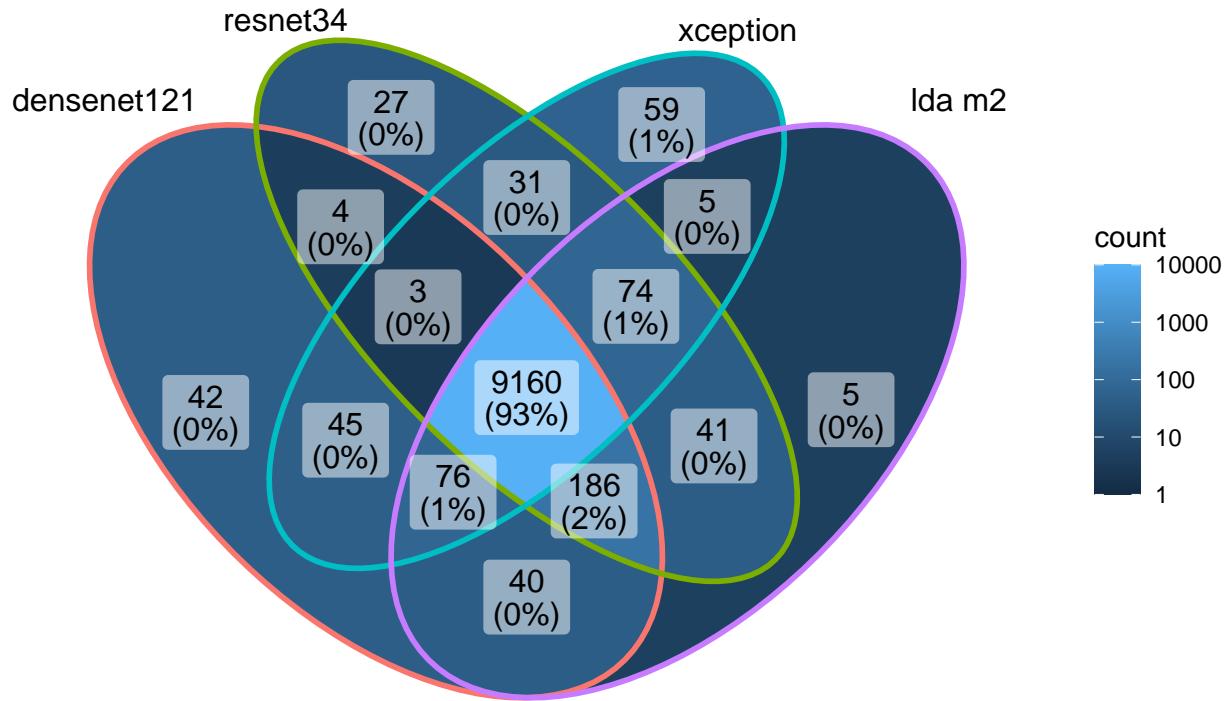


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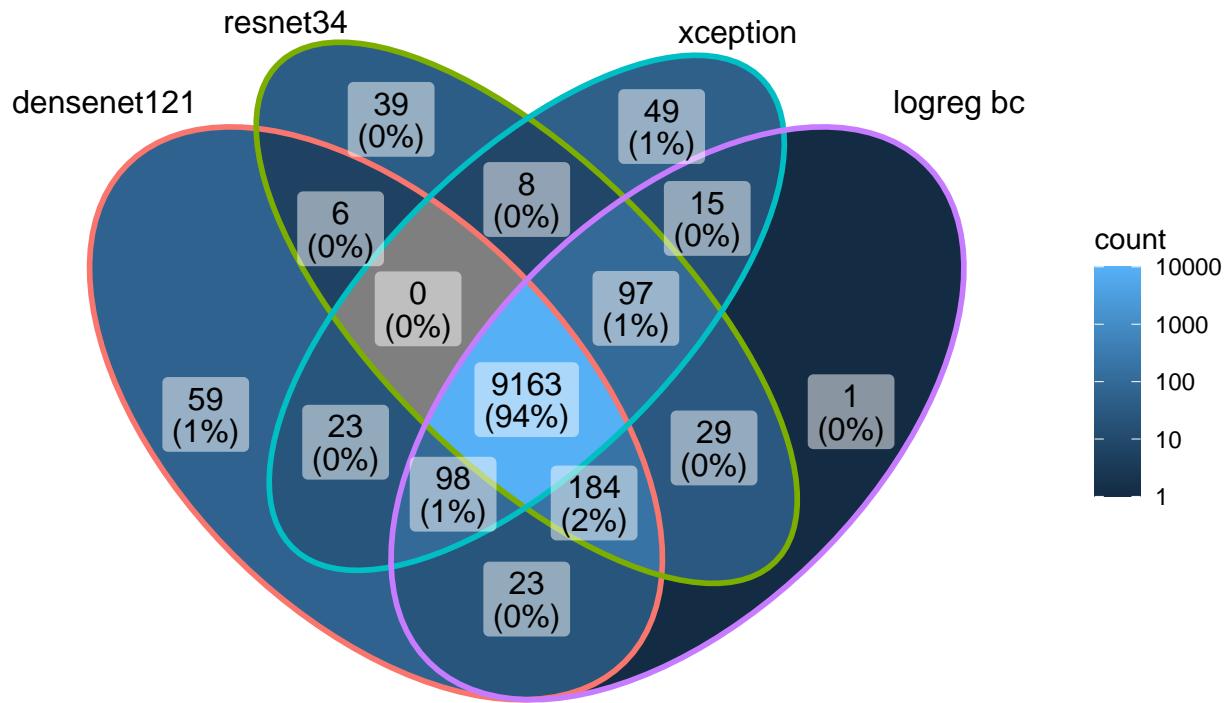


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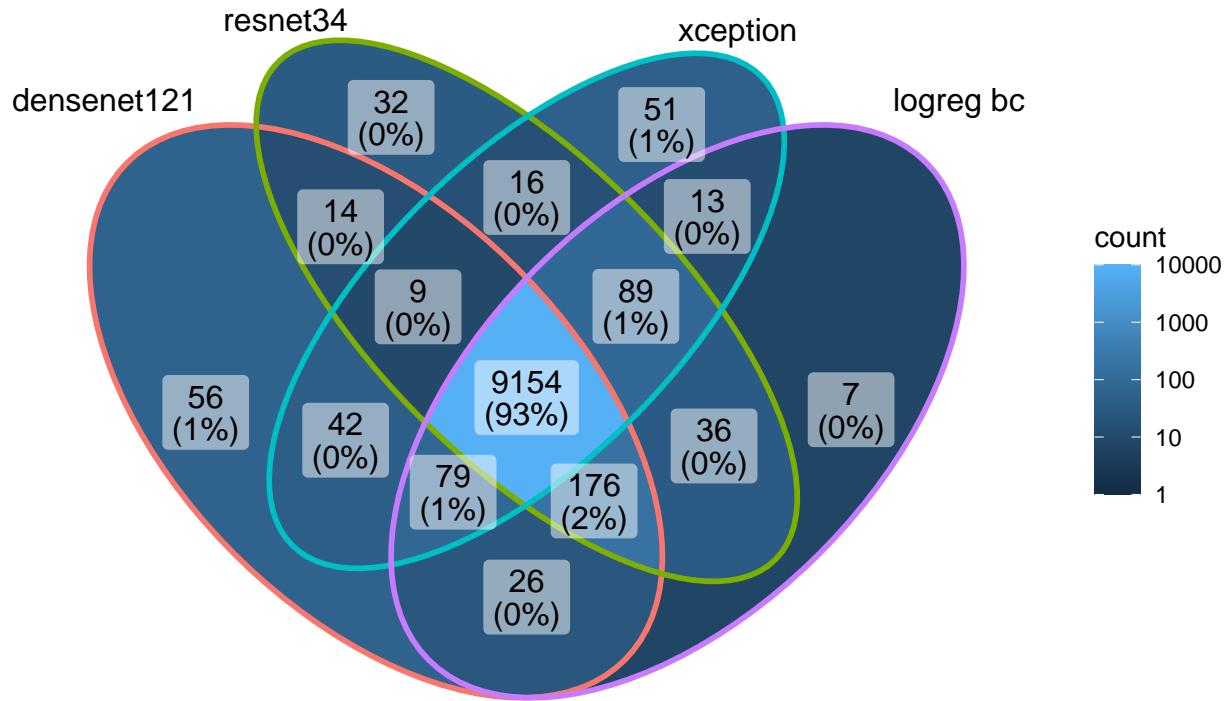


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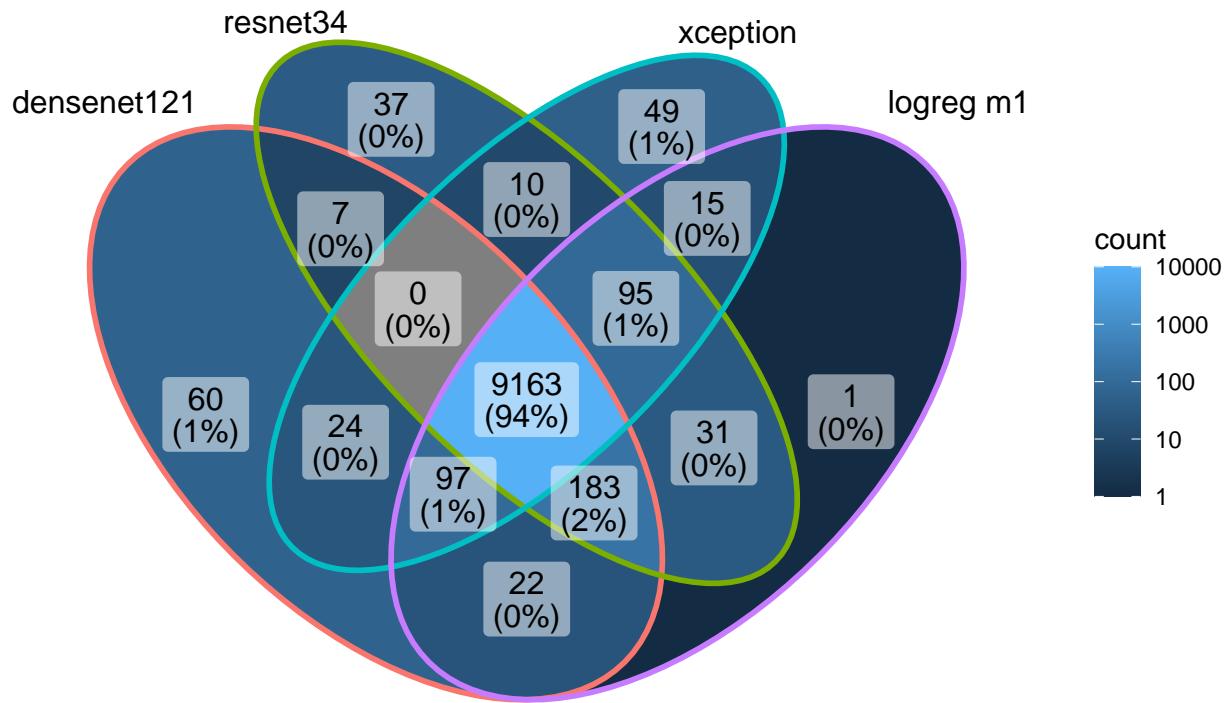


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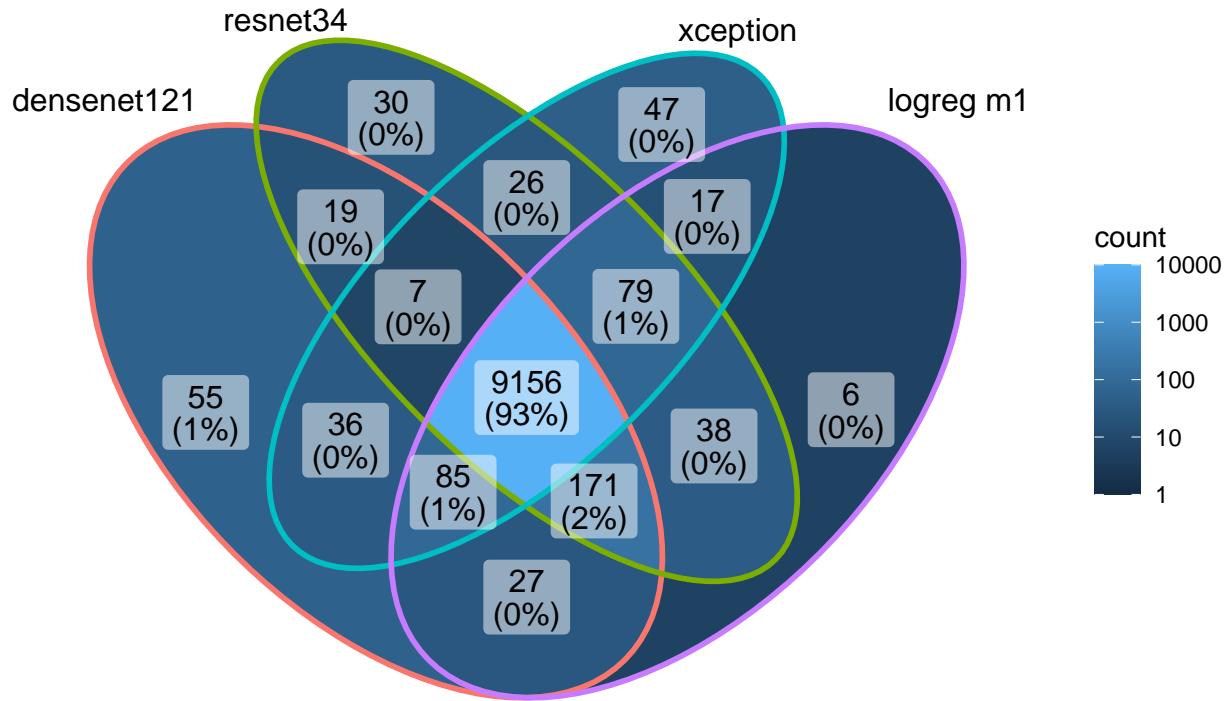


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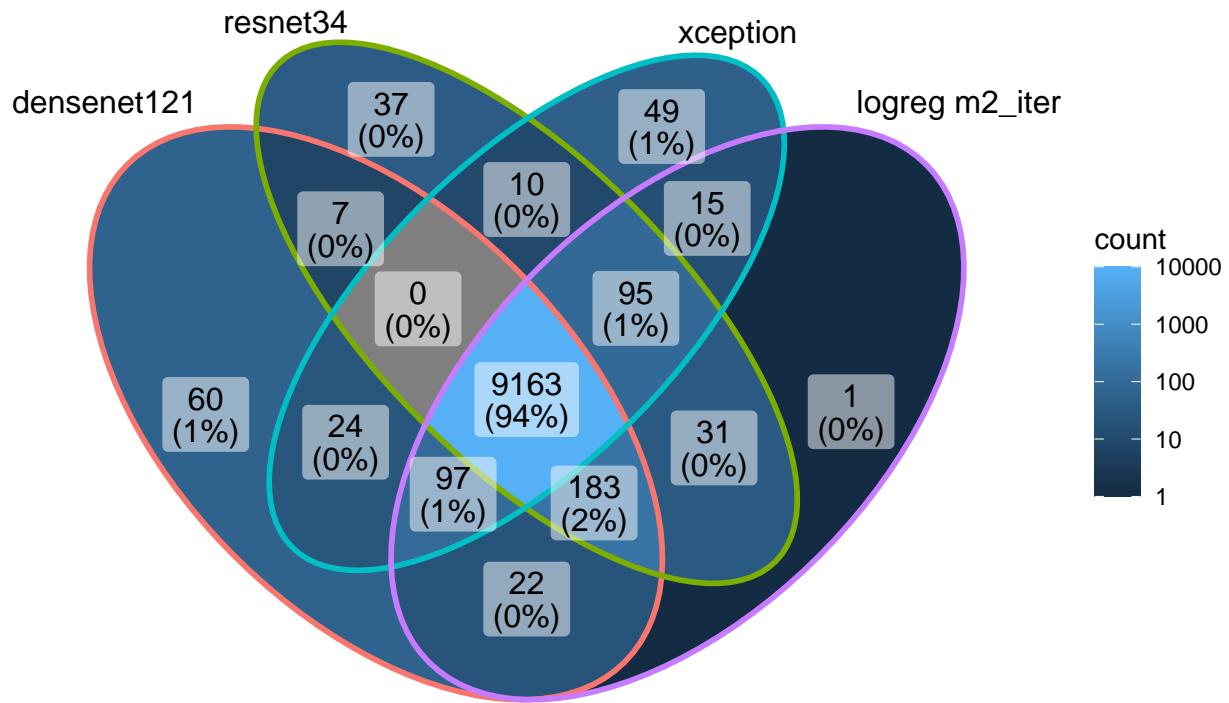


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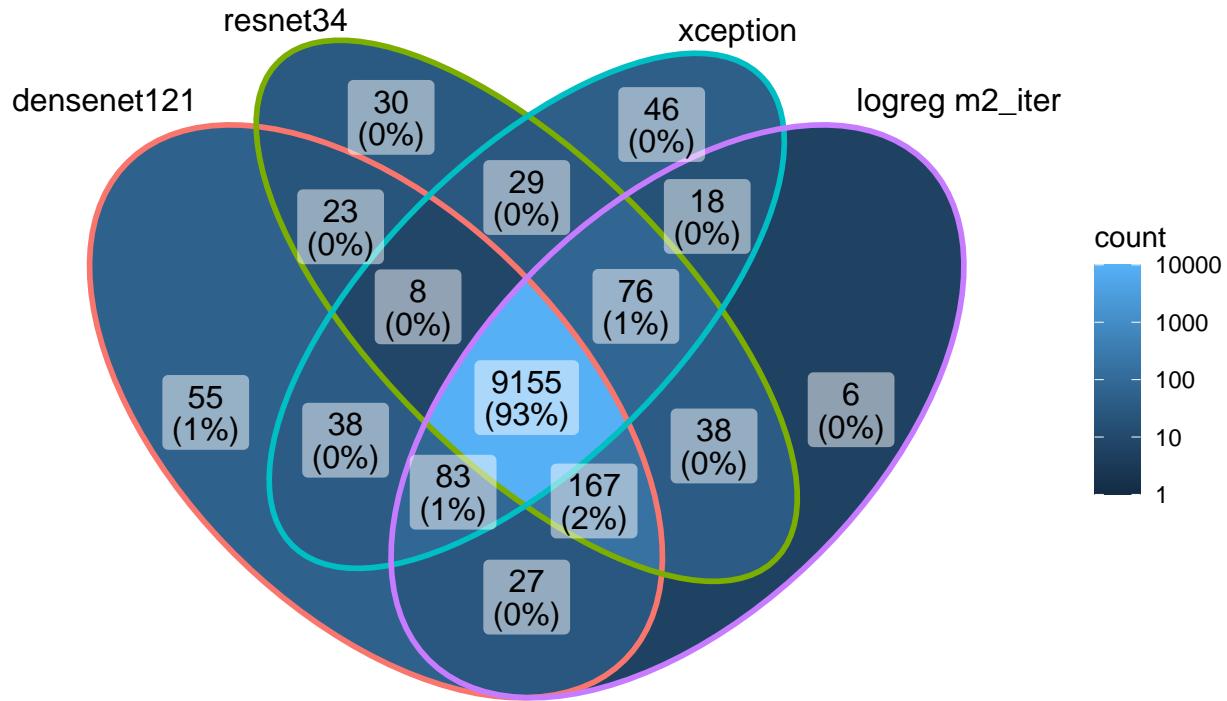


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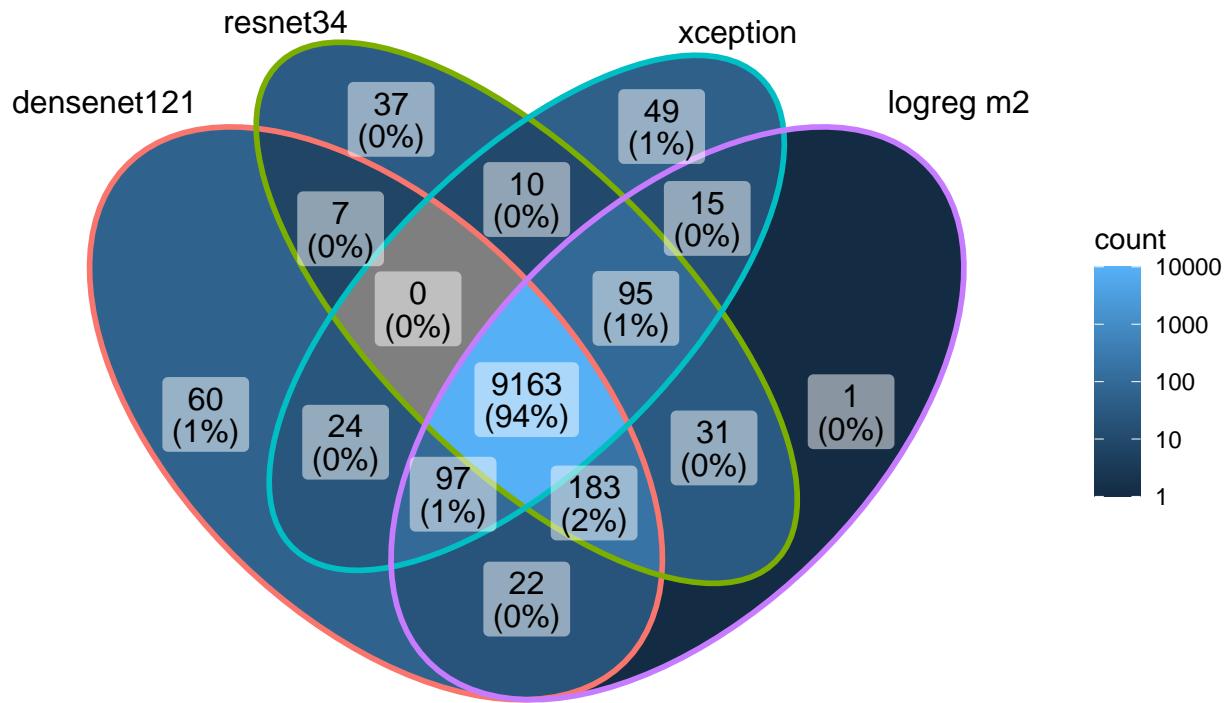


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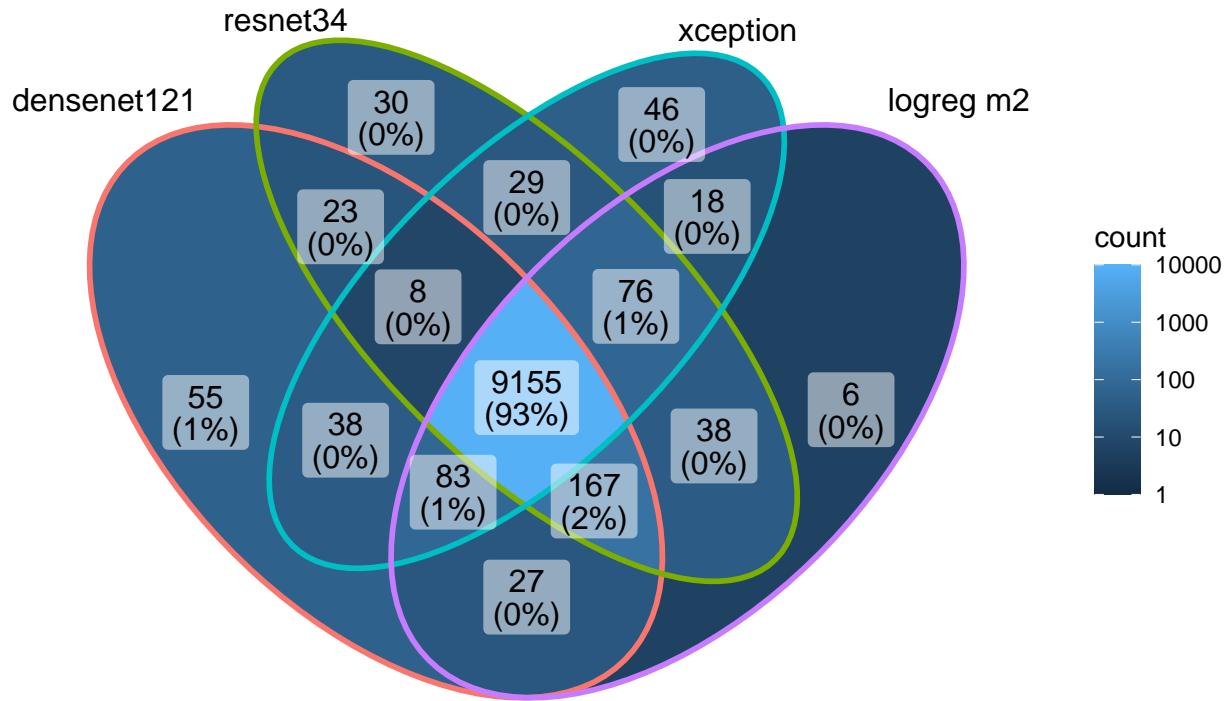


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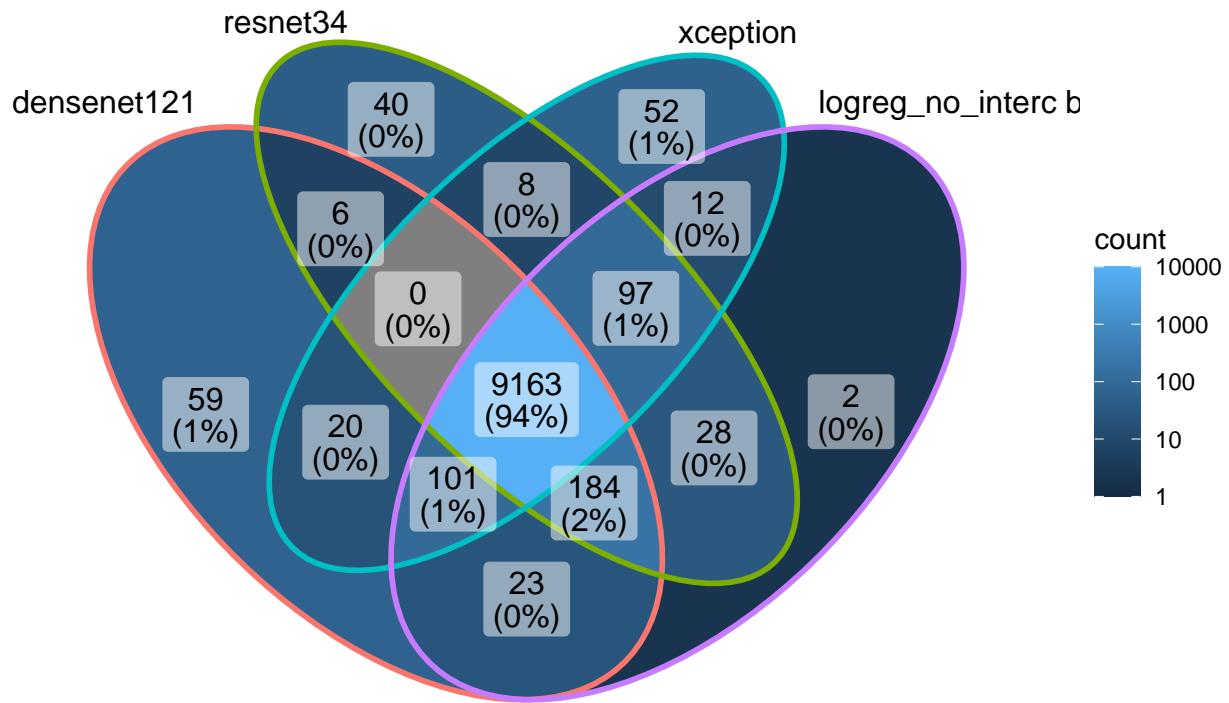


vt – replication 15



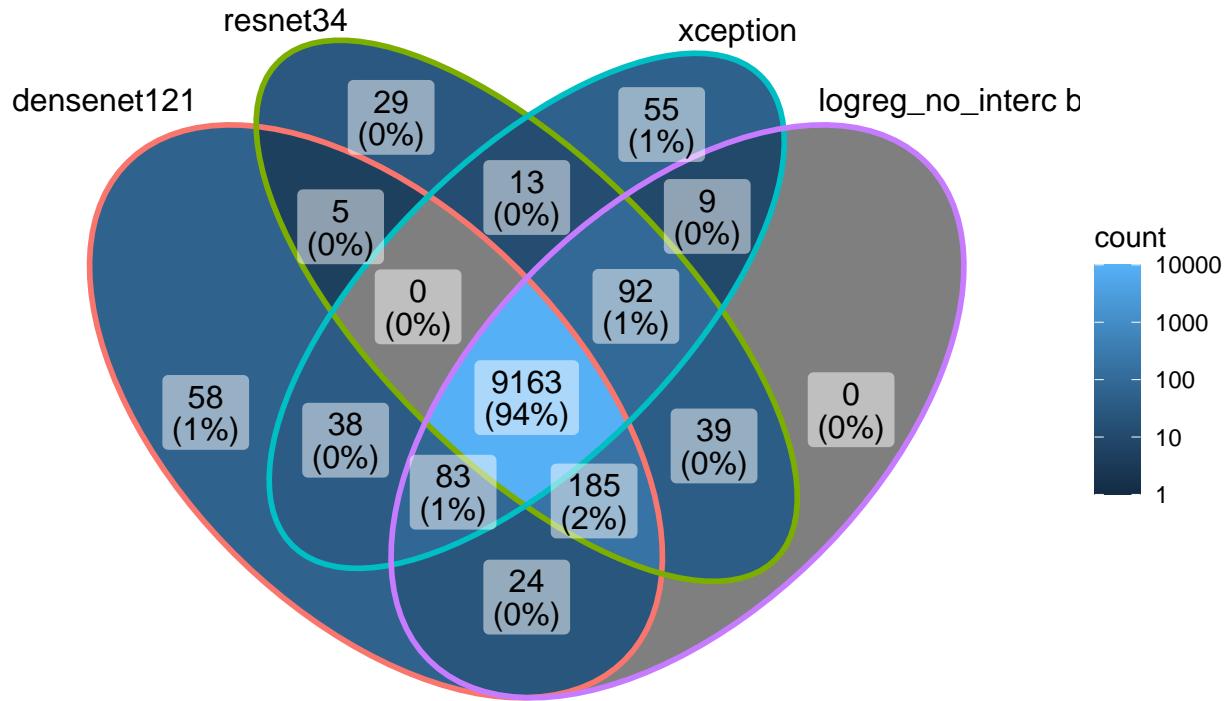
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tt – replication 15



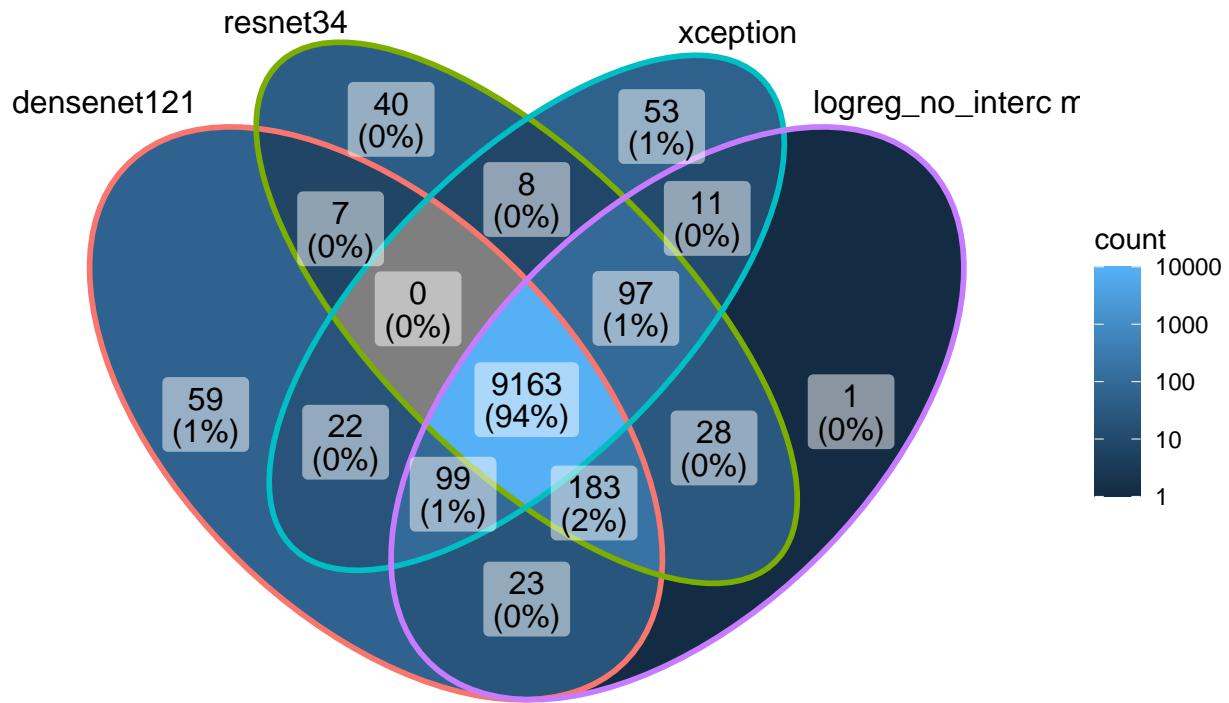
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vt – replication 15



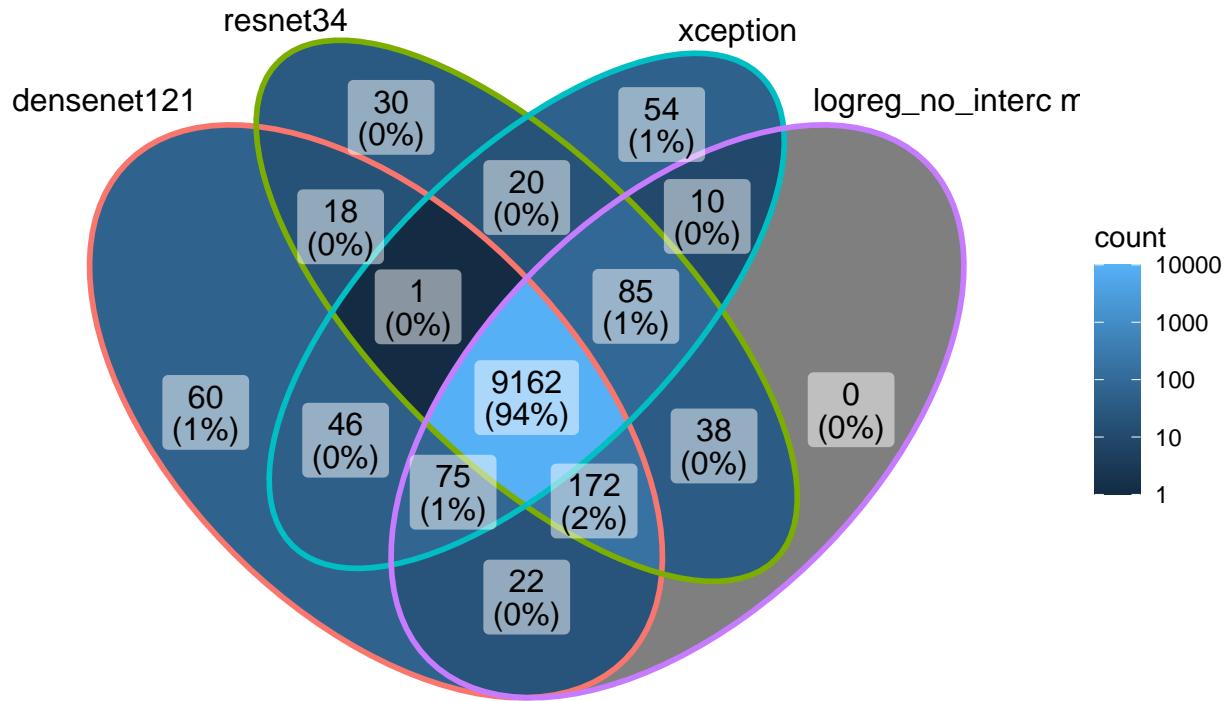
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tt – replication 15



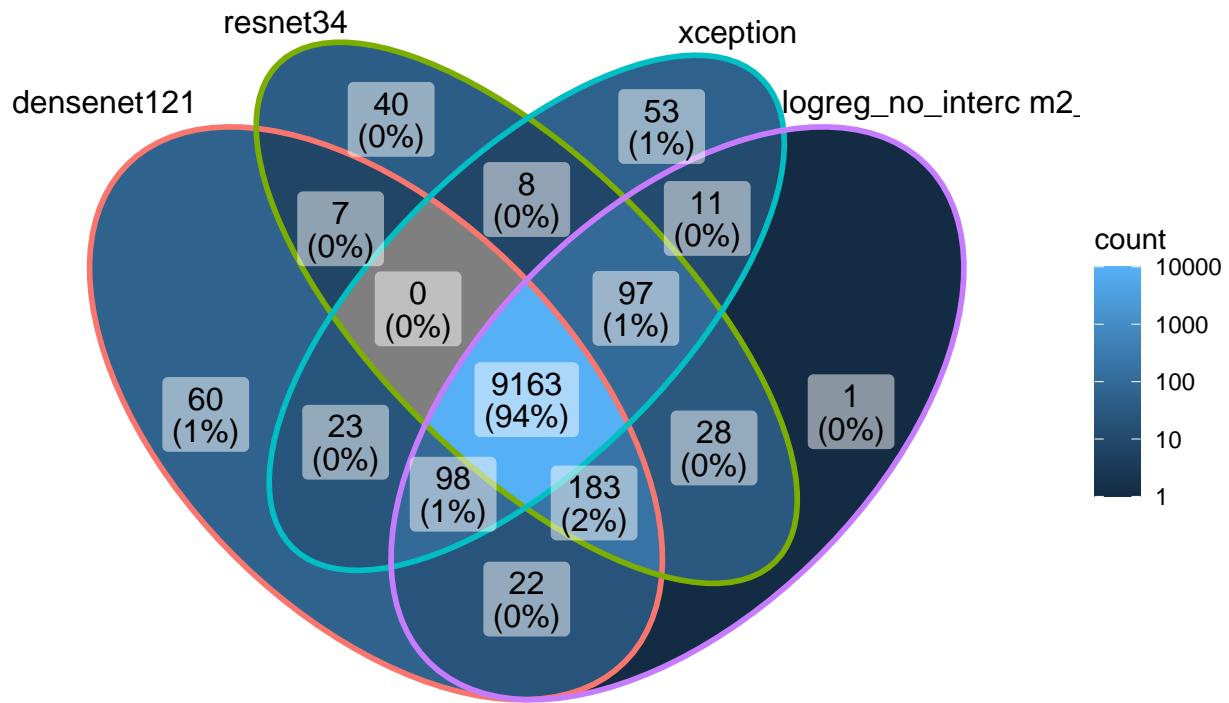
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vt – replication 15

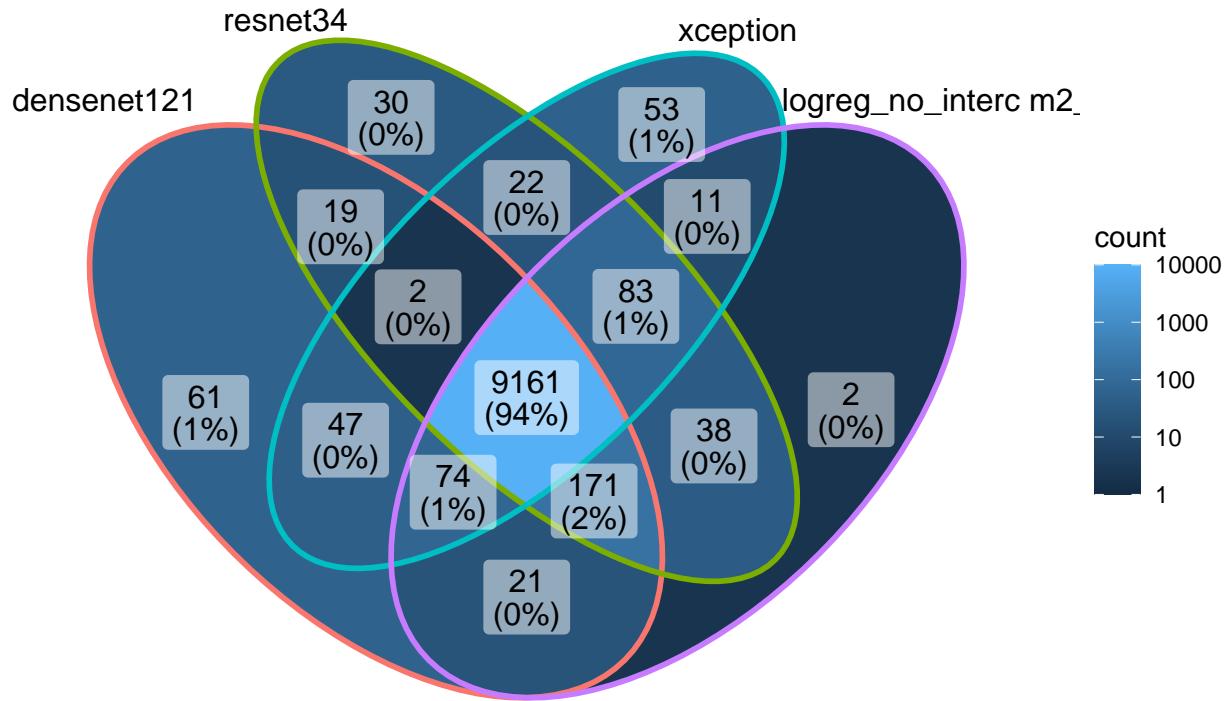


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tt – replication 15

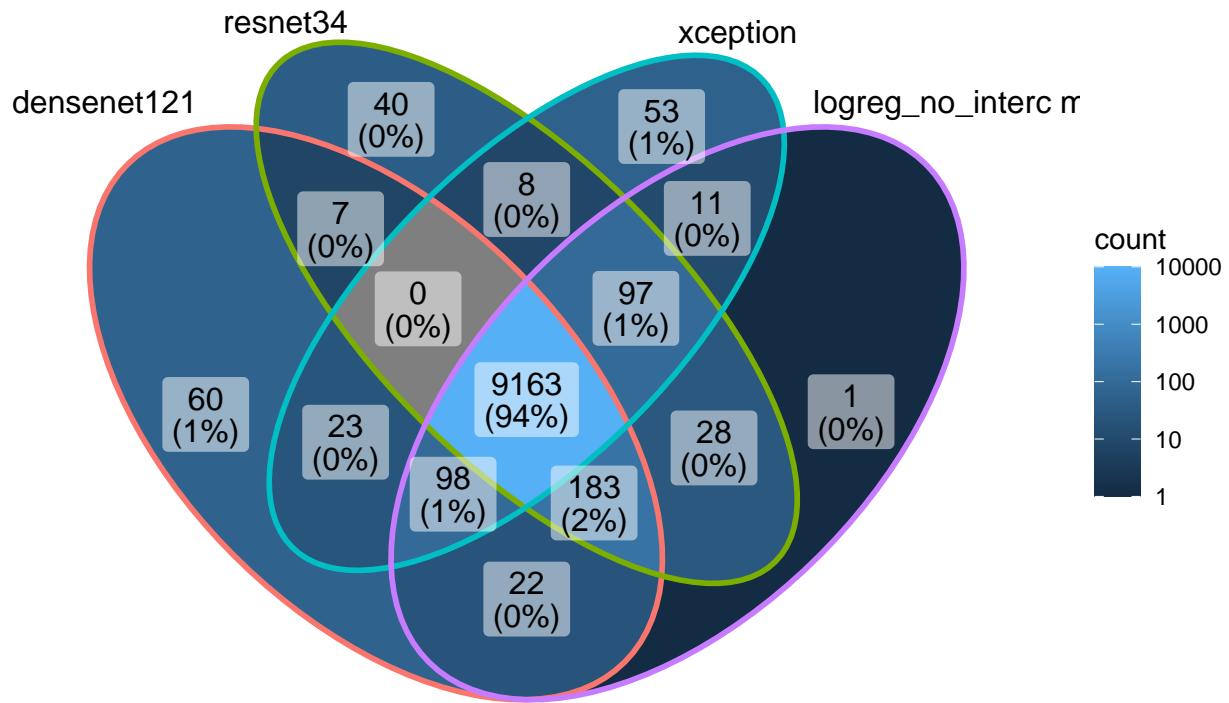


vt – replication 15

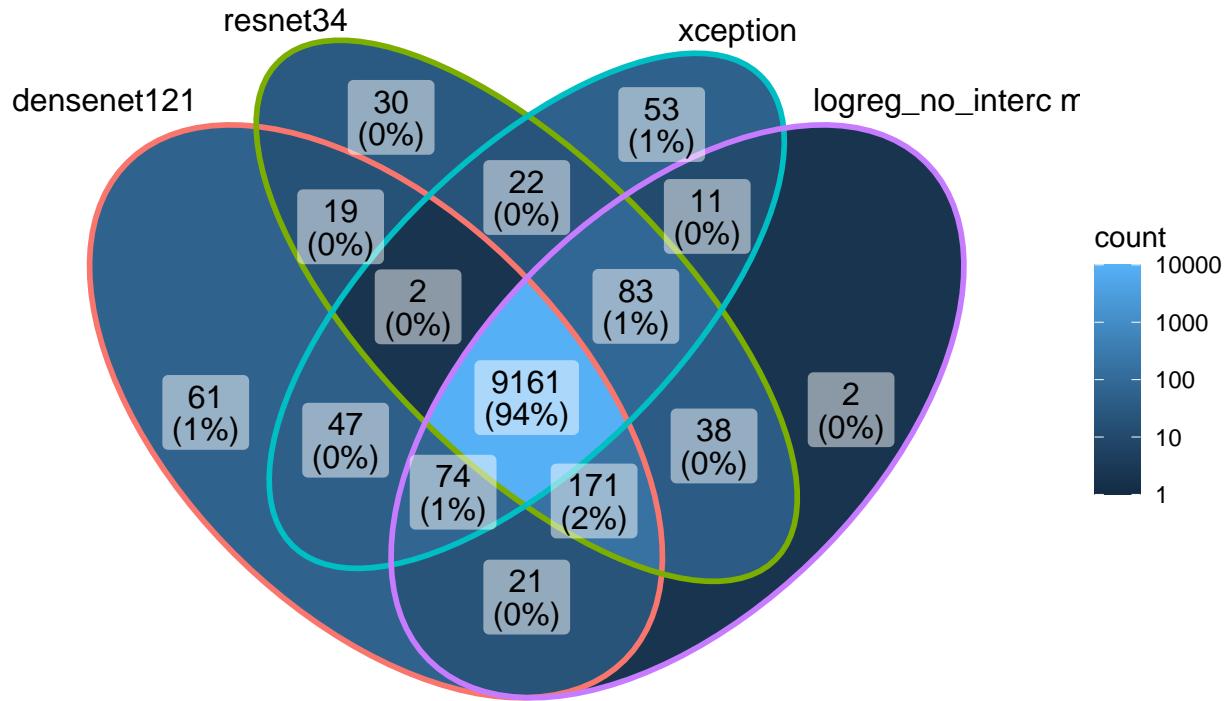


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tt – replication 15

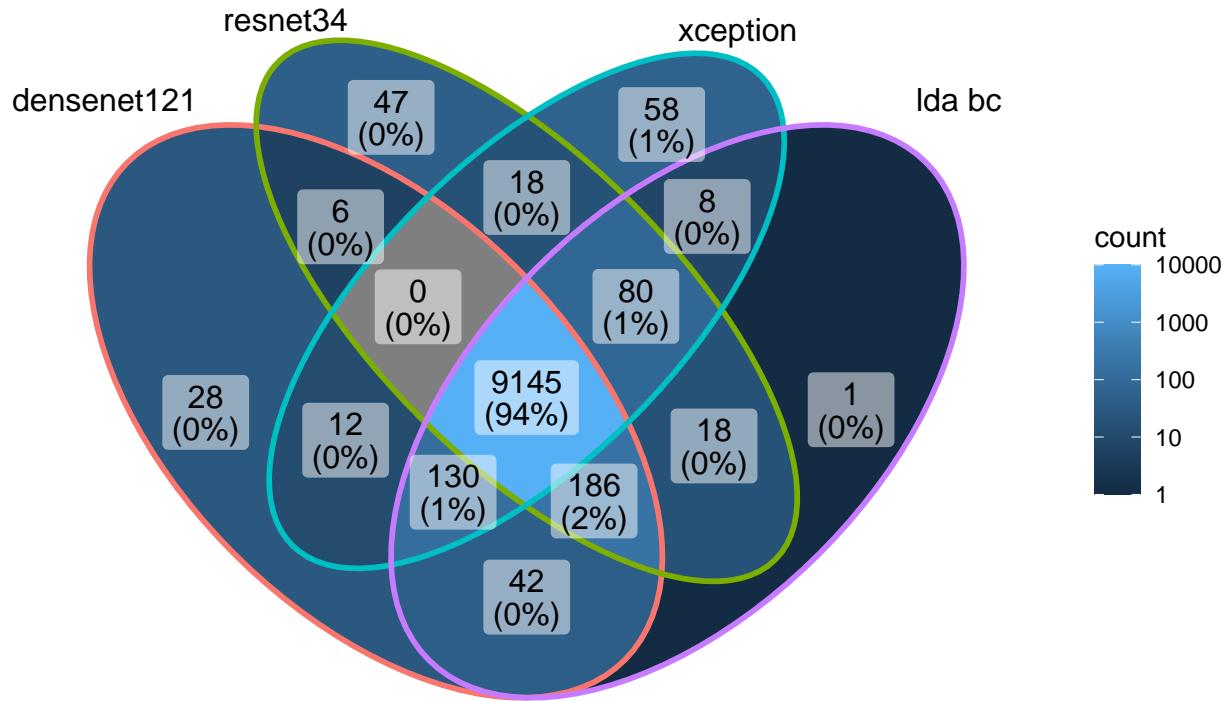


vt – replication 15



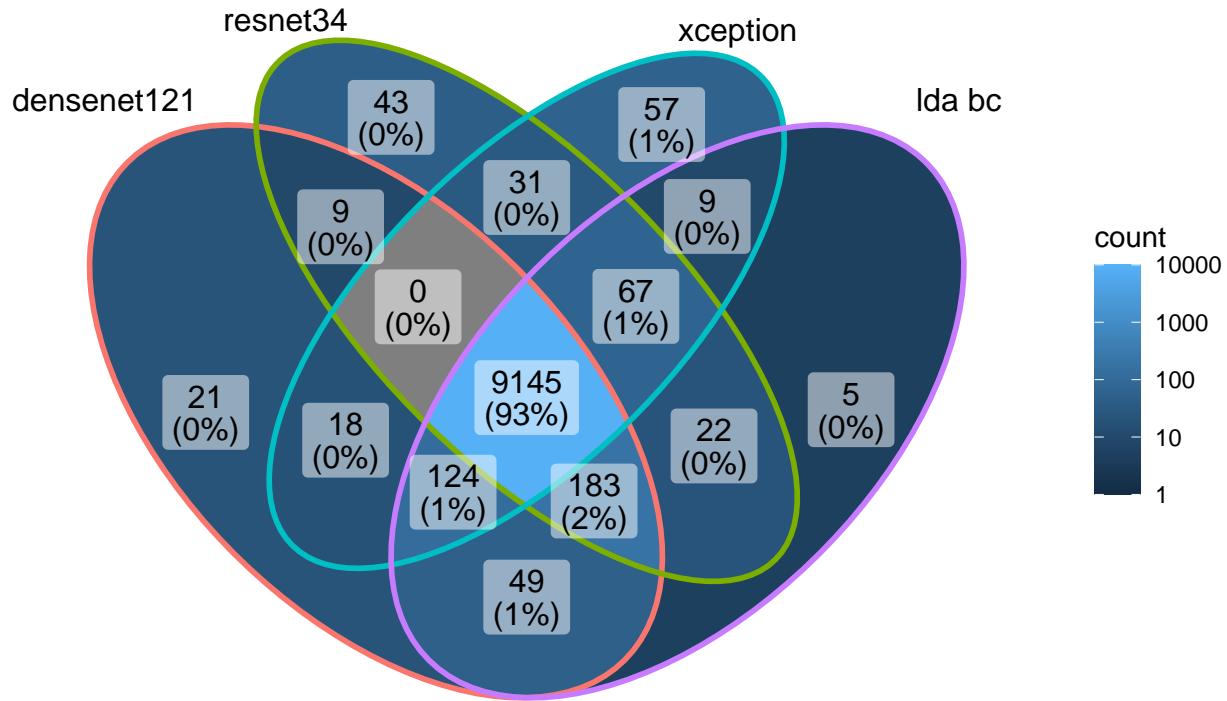
Warning: Transformation introduced infinite values in discrete y-axis

tt – replication 16



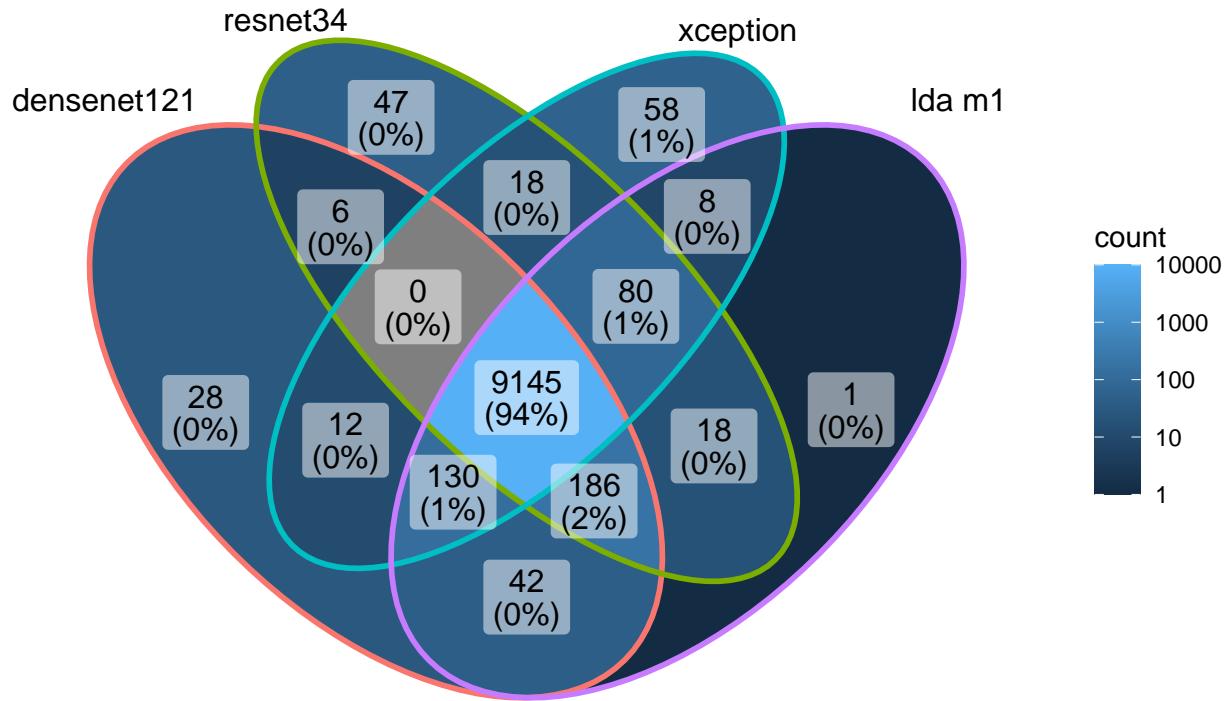
Warning: Transformation introduced infinite values in discrete y-axis

vt – replication 16

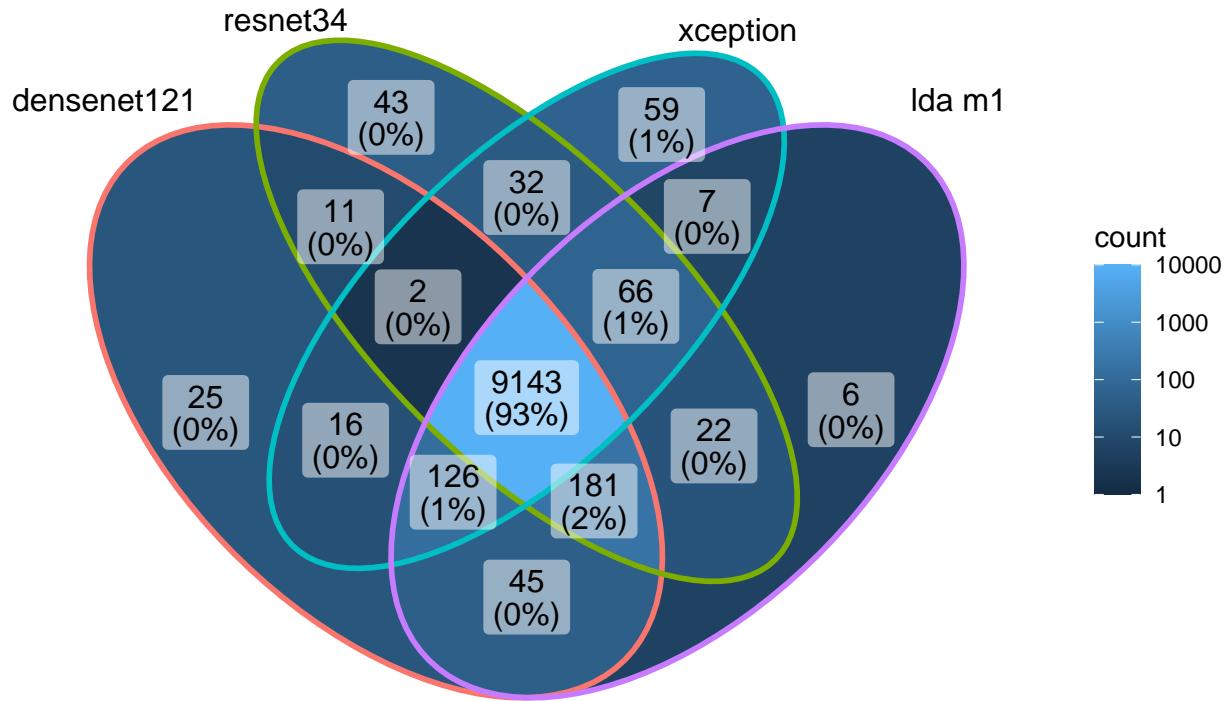


Warning: Transformation introduced infinite values in discrete y-axis

tt – replication 16

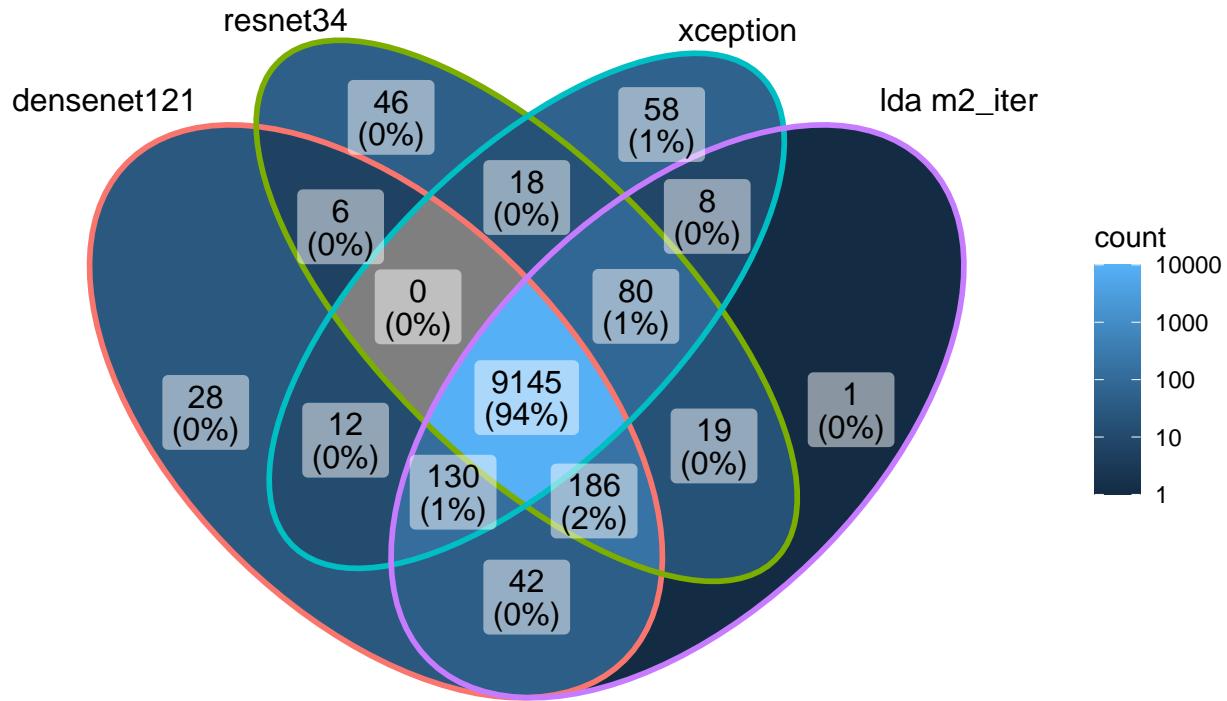


vt – replication 16

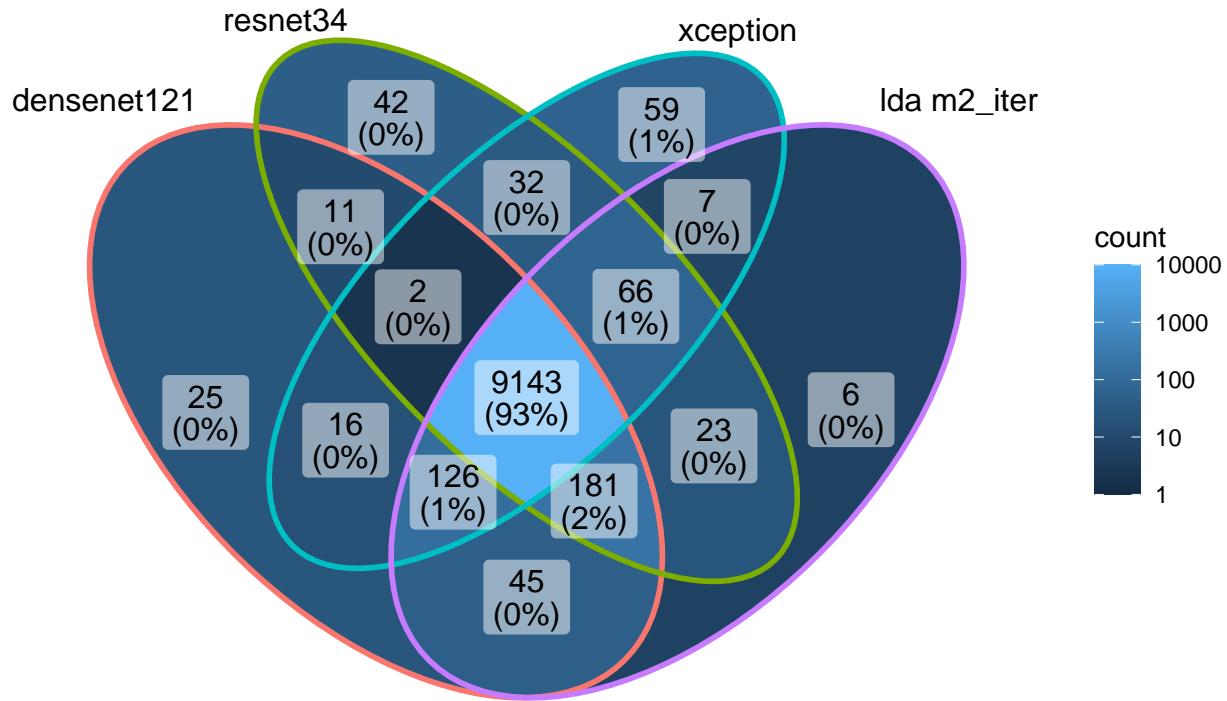


Warning: Transformation introduced infinite values in discrete y-axis

tt – replication 16

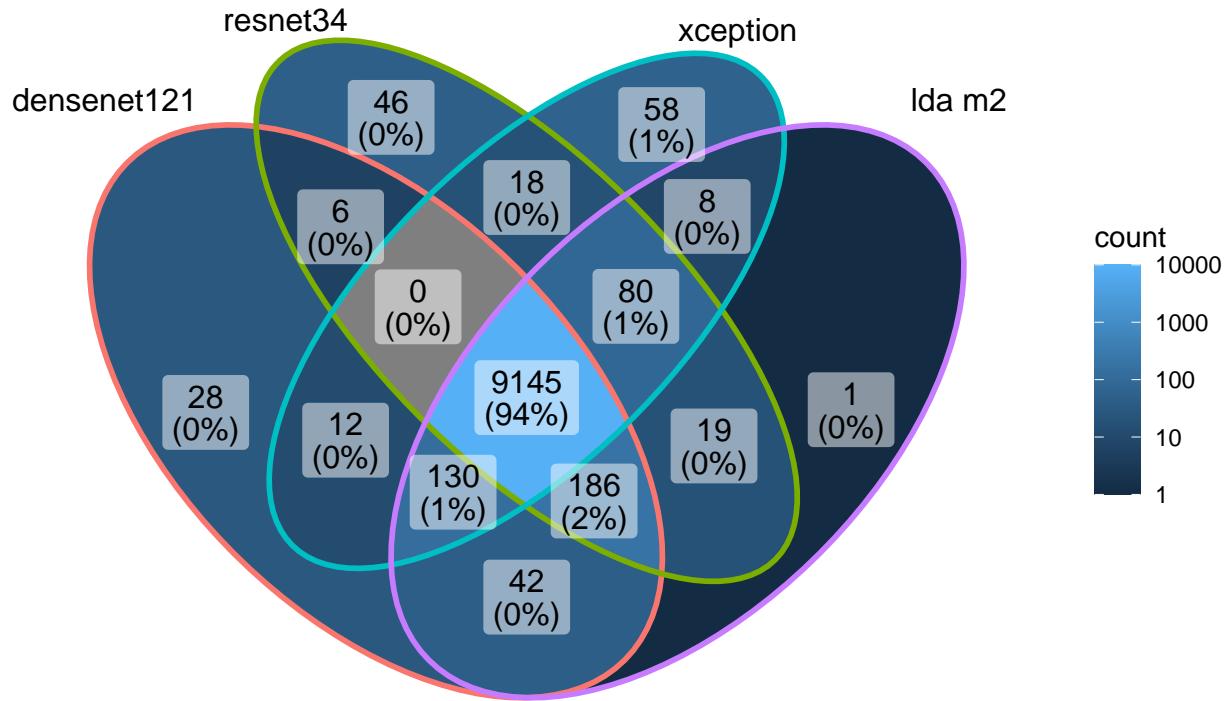


vt – replication 16

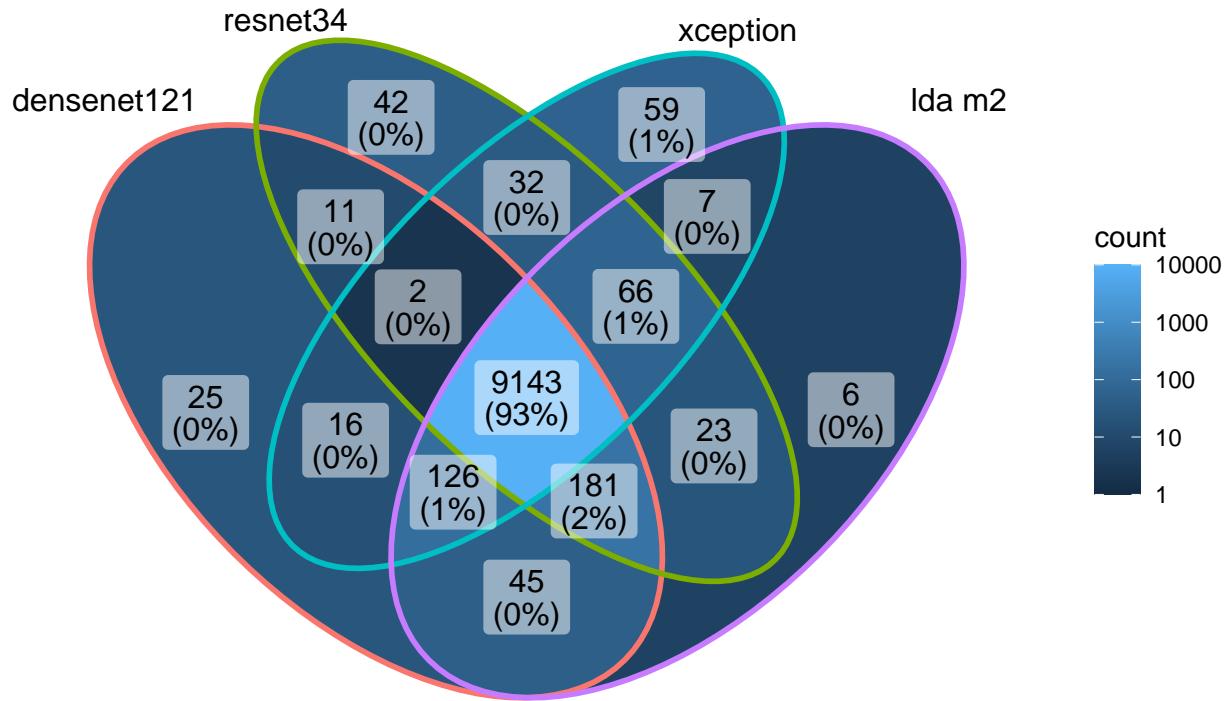


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tt – replication 16

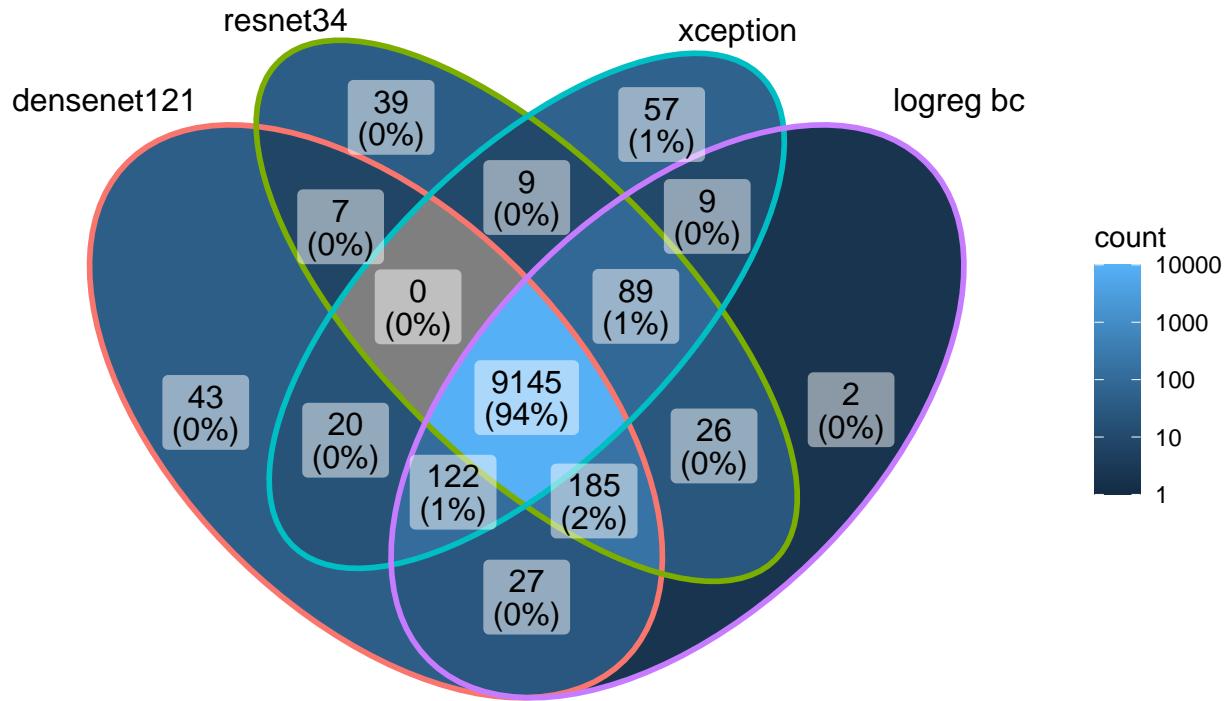


vt – replication 16

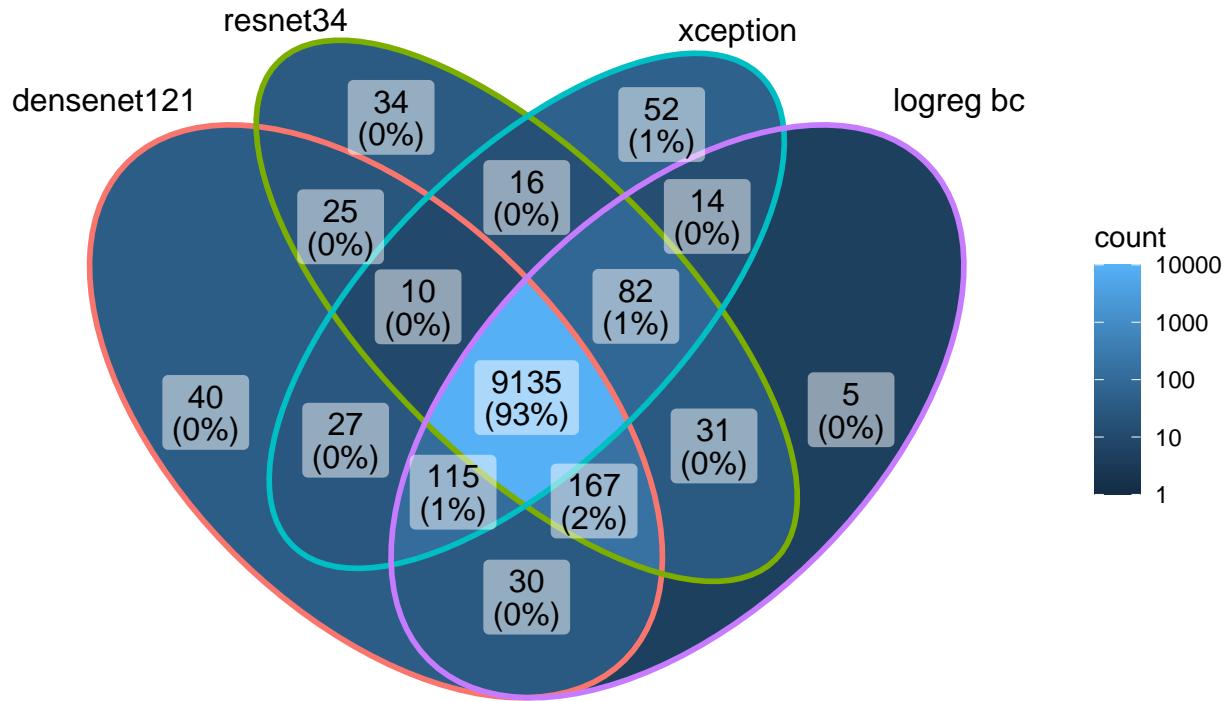


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tt – replication 16

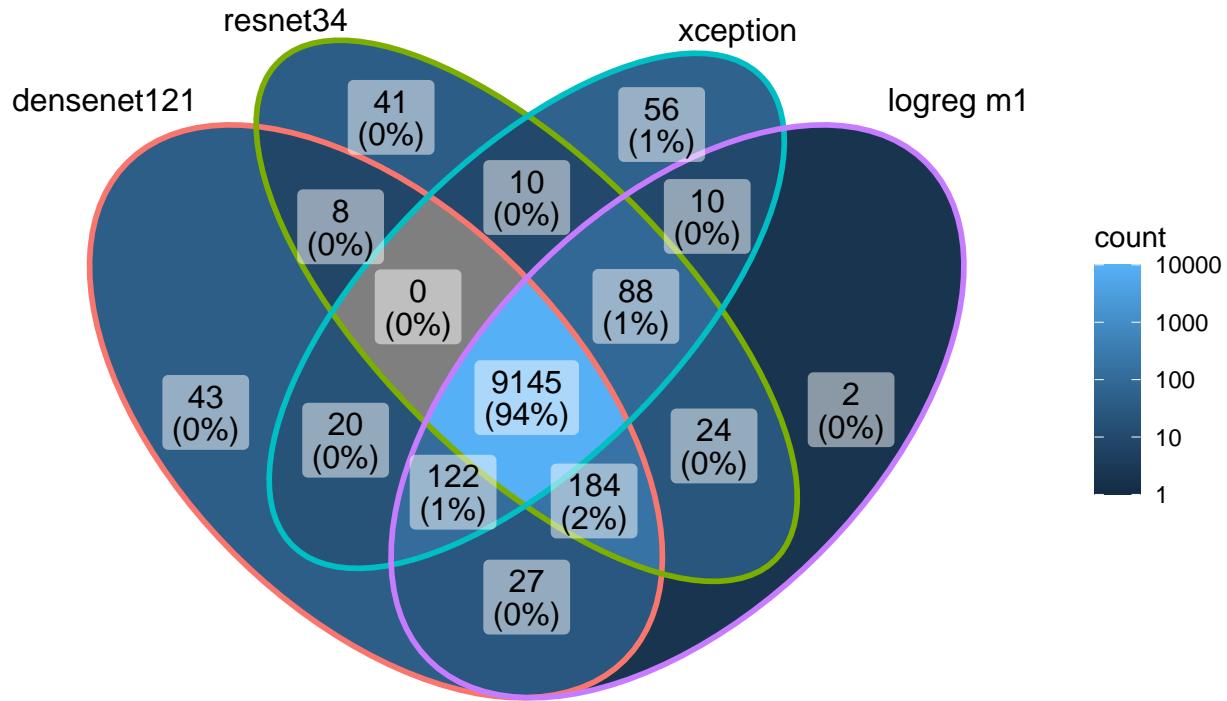


vt – replication 16

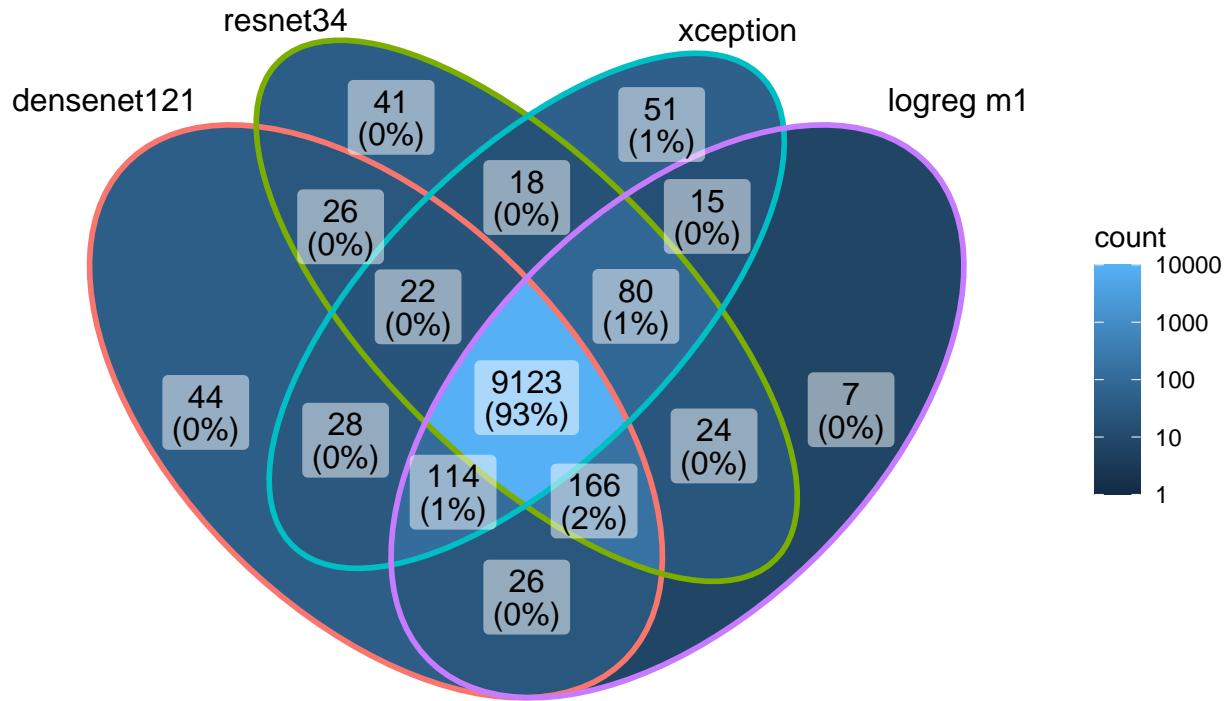


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tt – replication 16

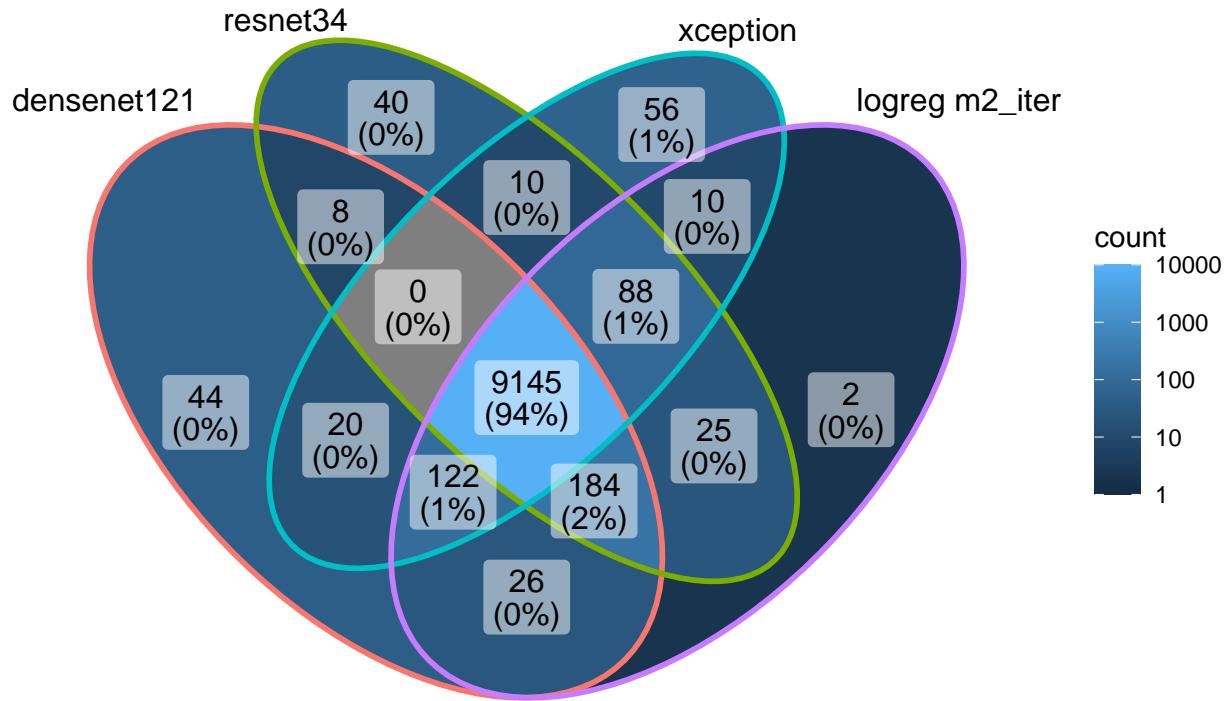


vt – replication 16

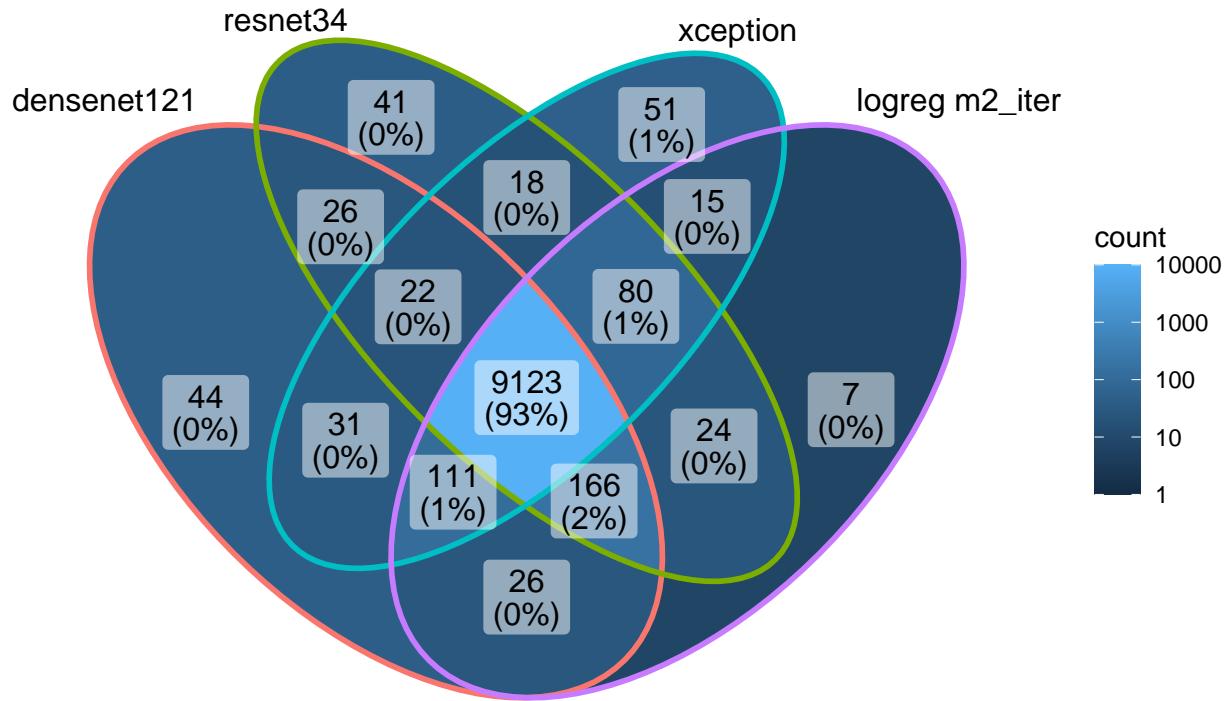


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tt – replication 16

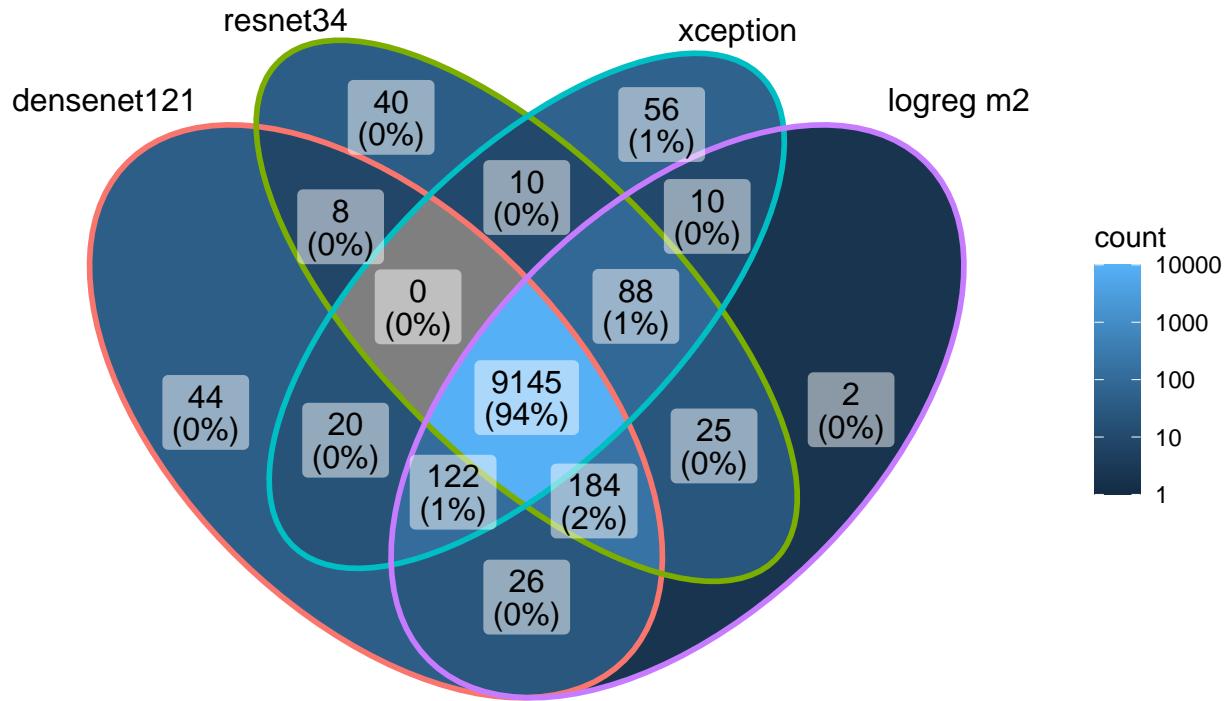


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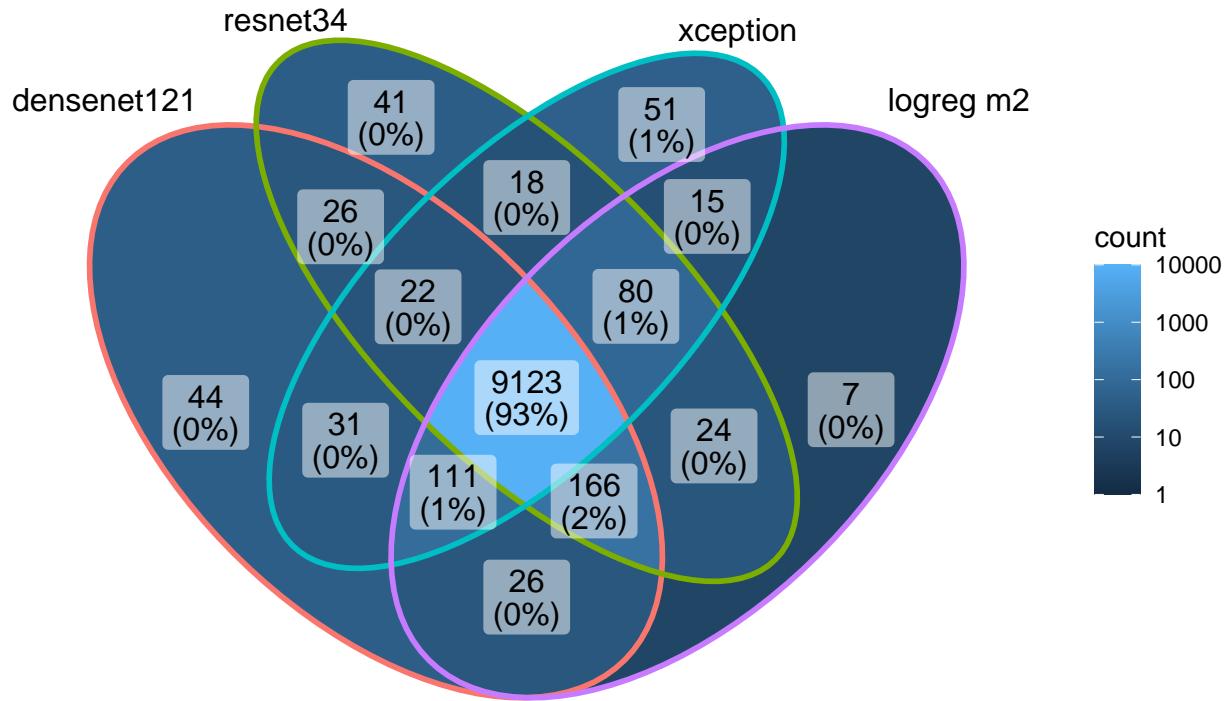


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tt – replication 16

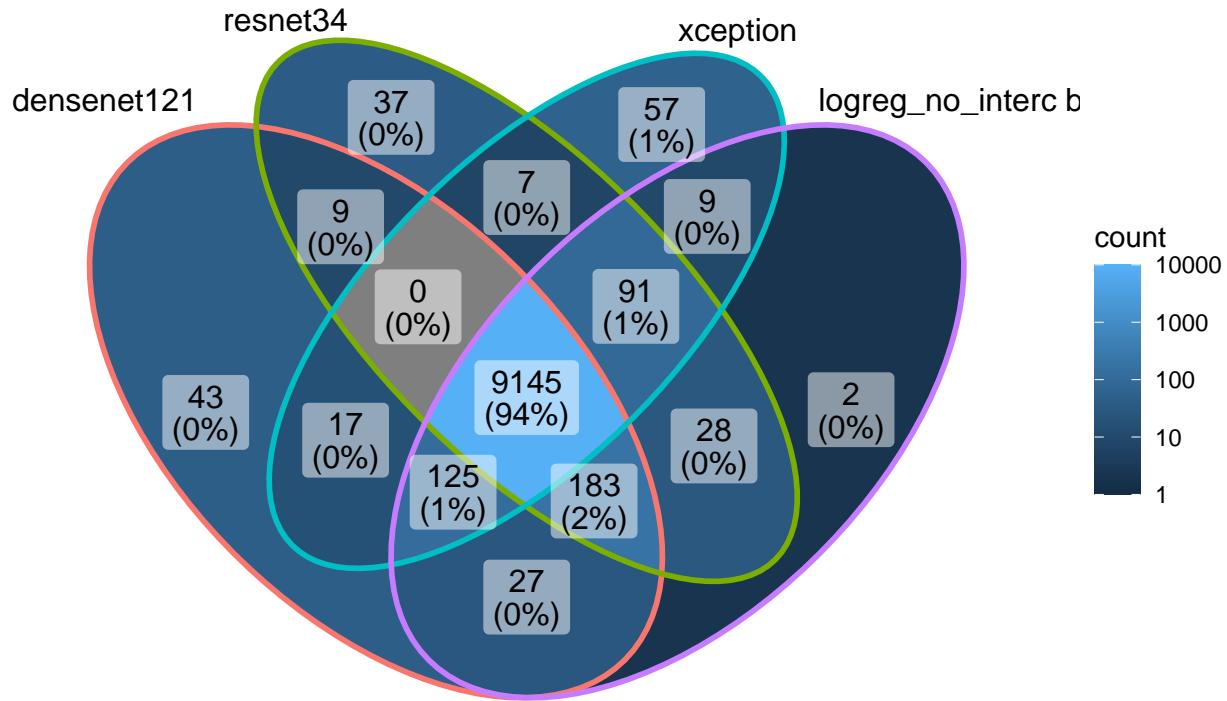


vt – replication 16

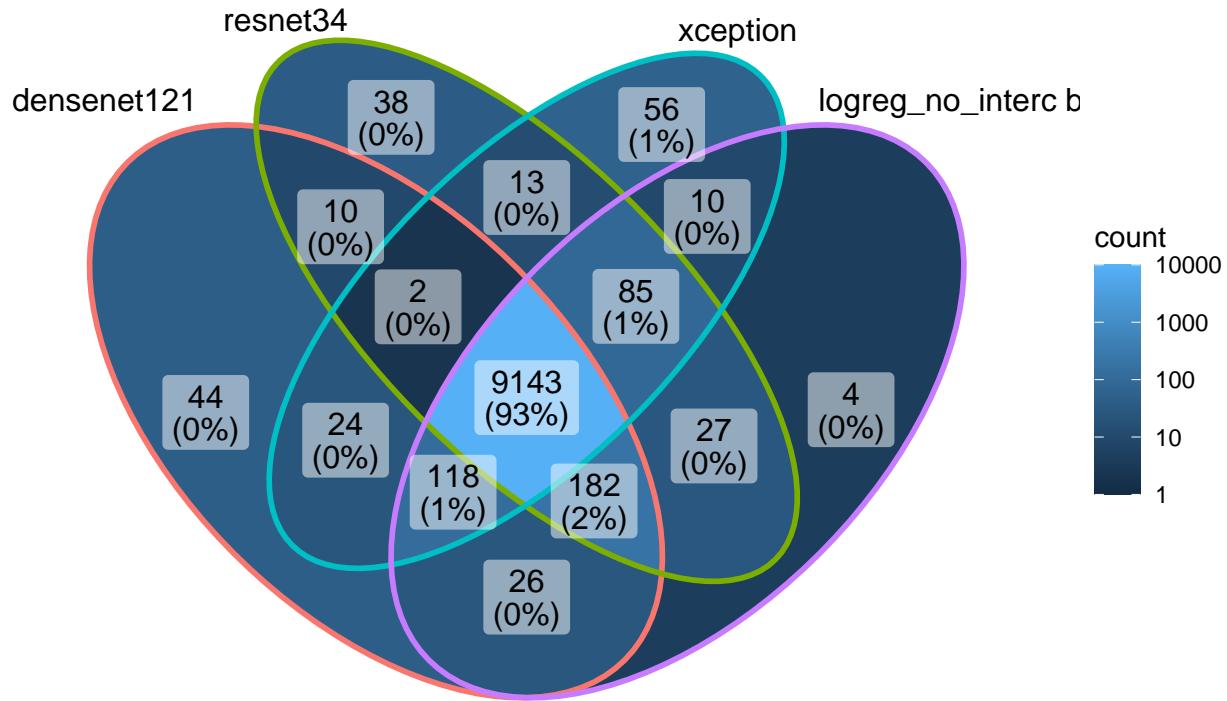


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tt – replication 16

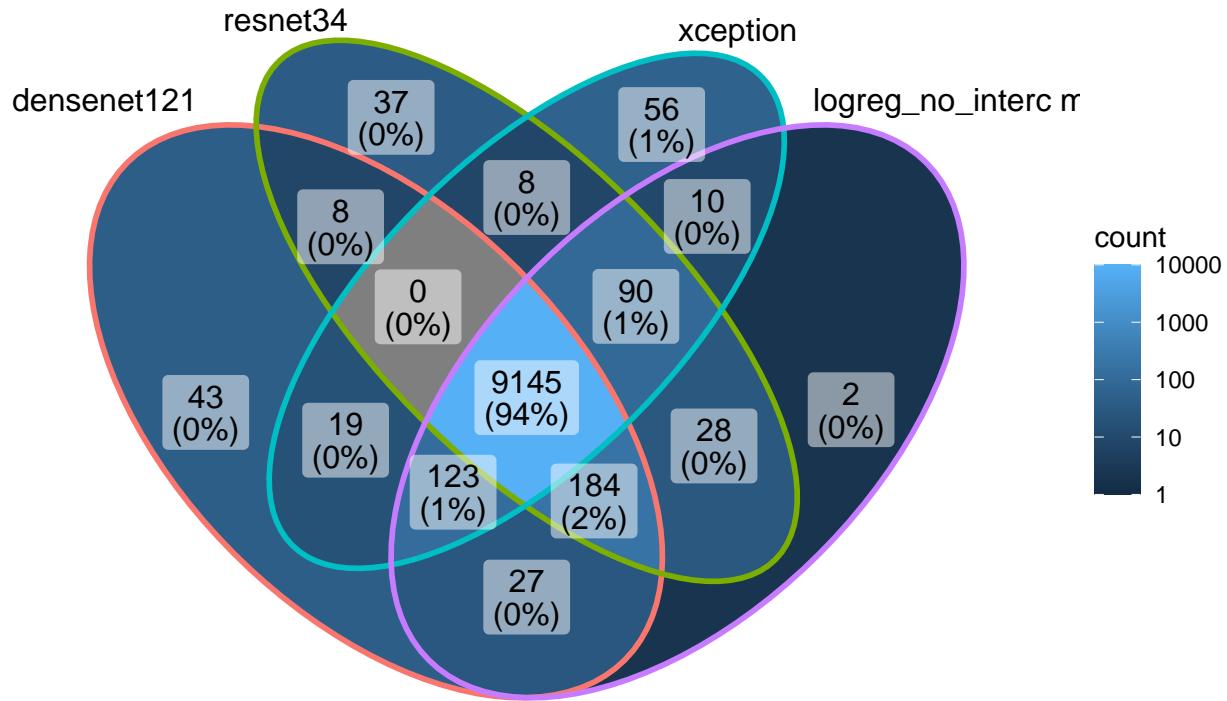


vt – replication 16

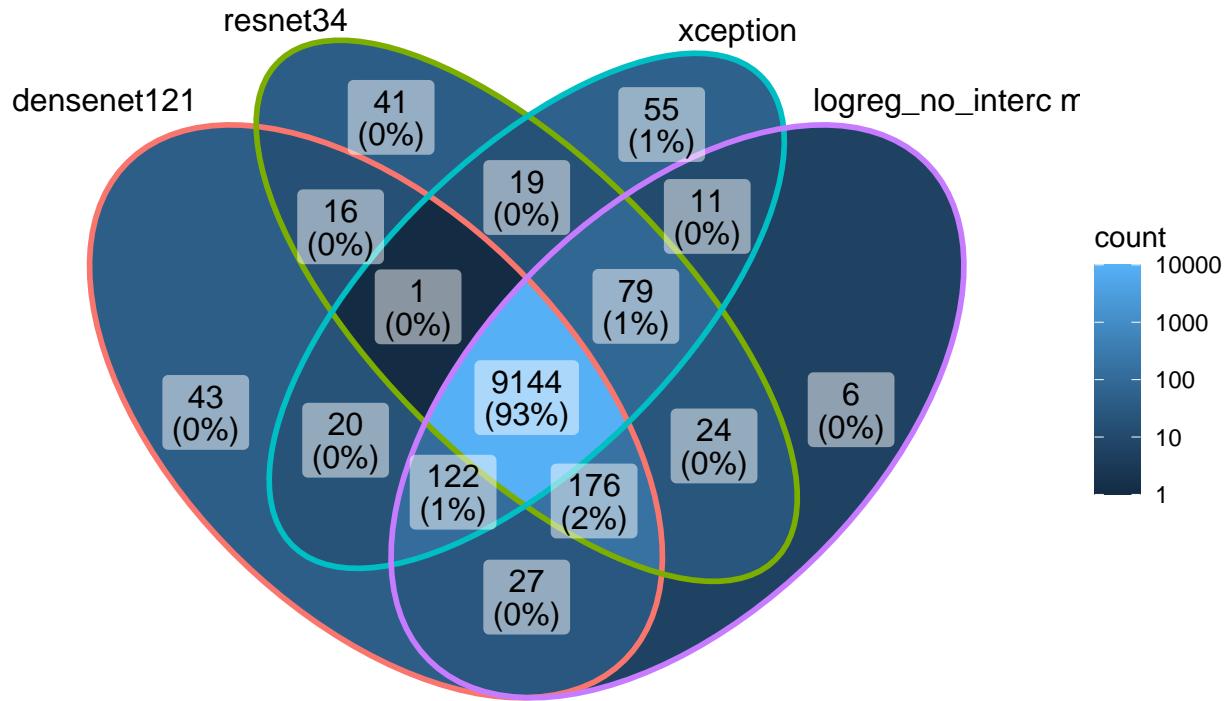


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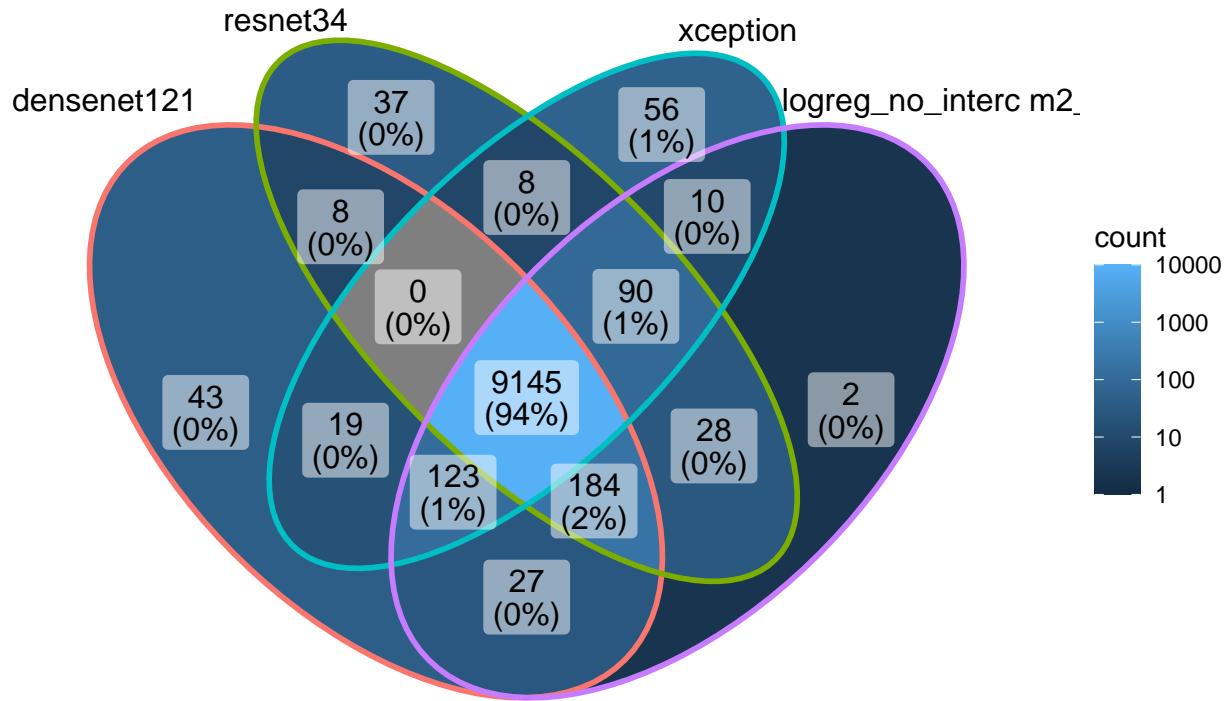


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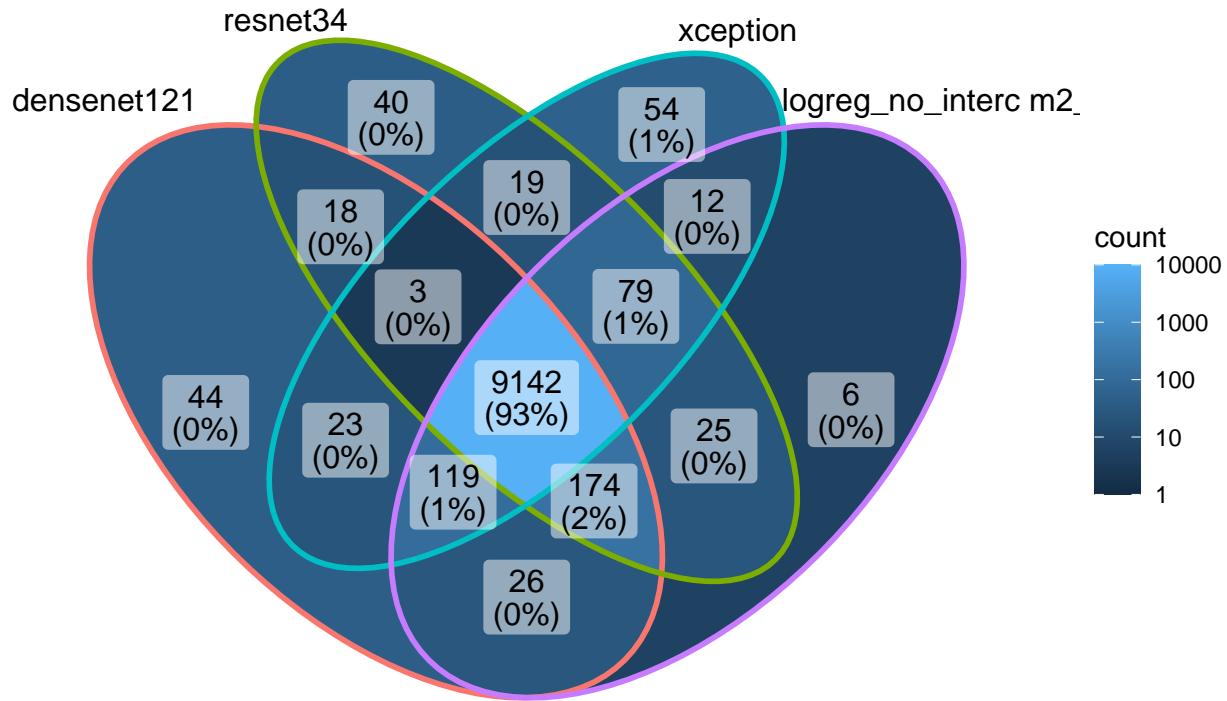


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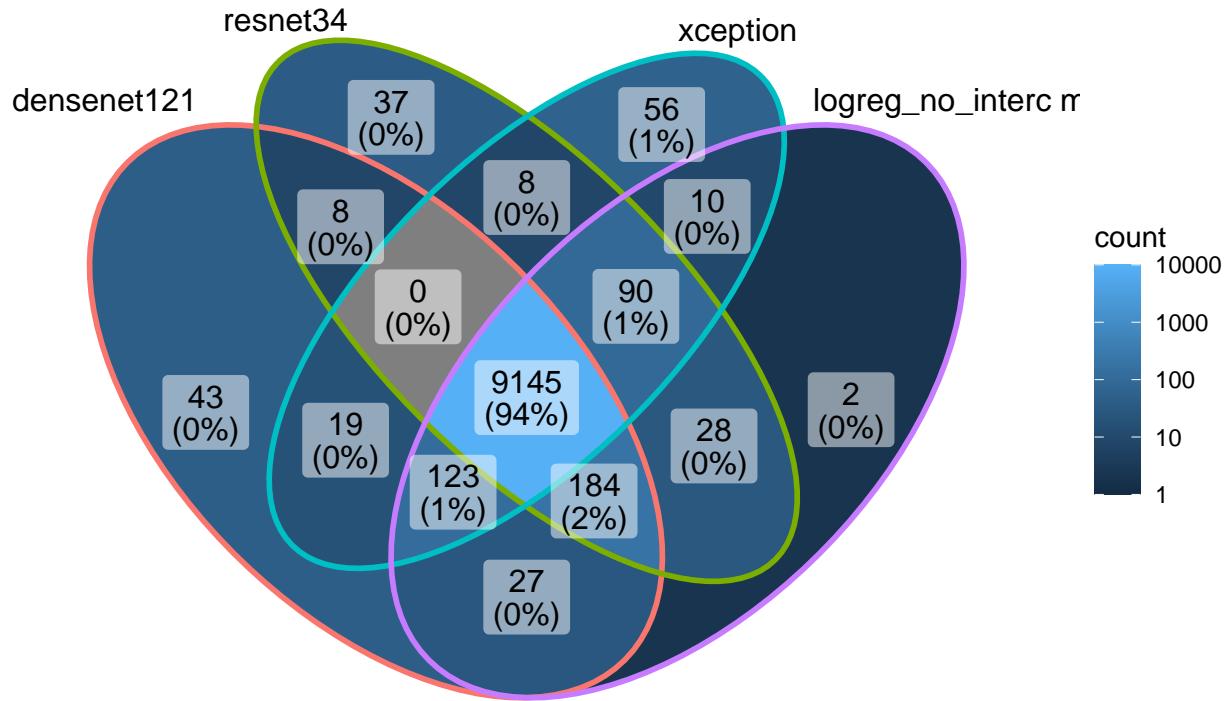


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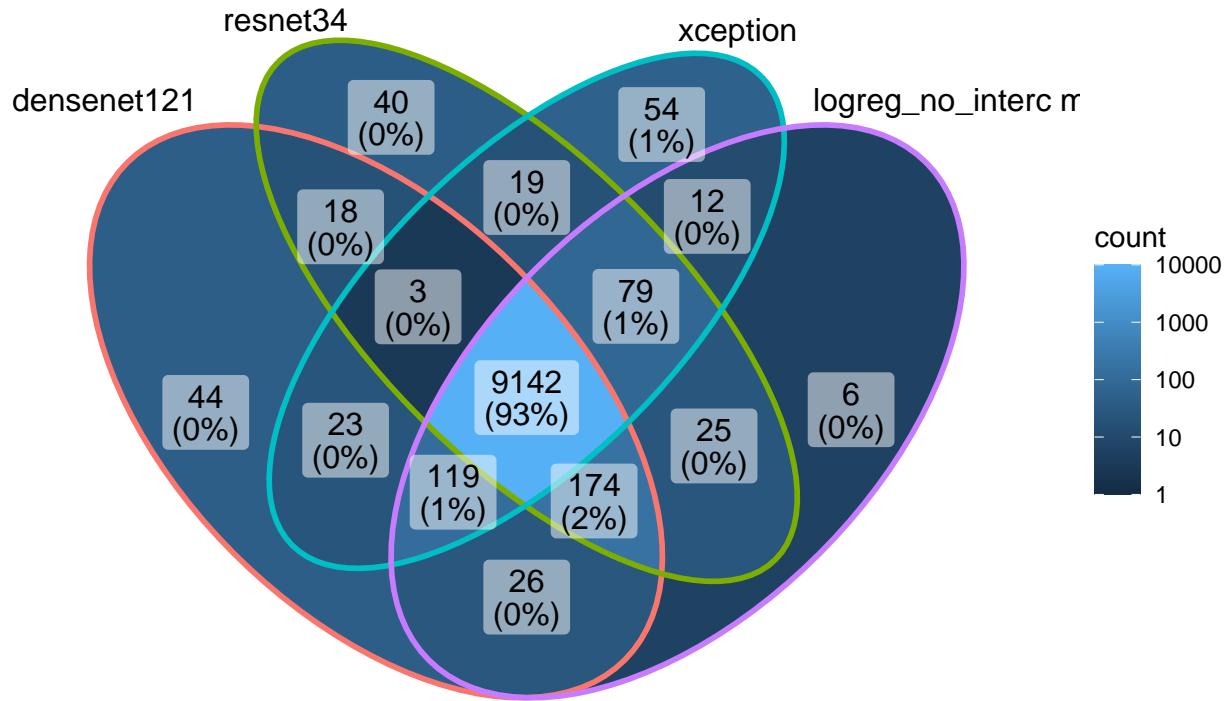


Warning: Transformation introduced infinite values in discrete y-axis

tt – replication 16

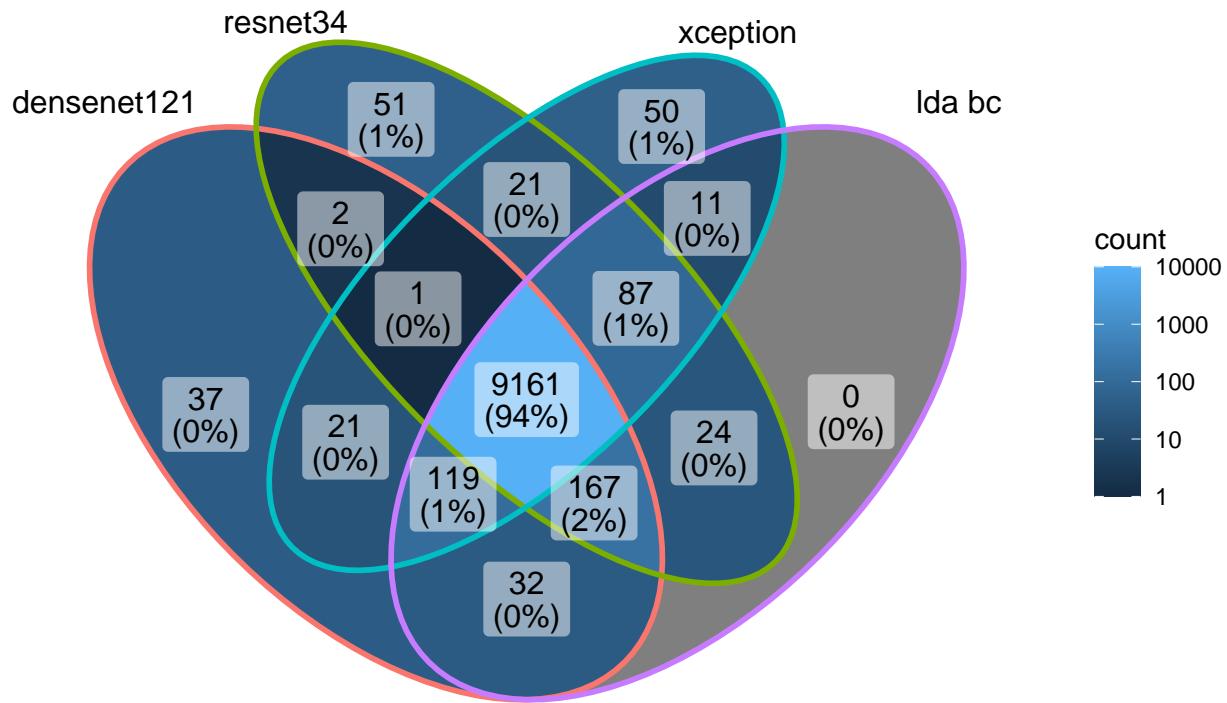


vt – replication 16



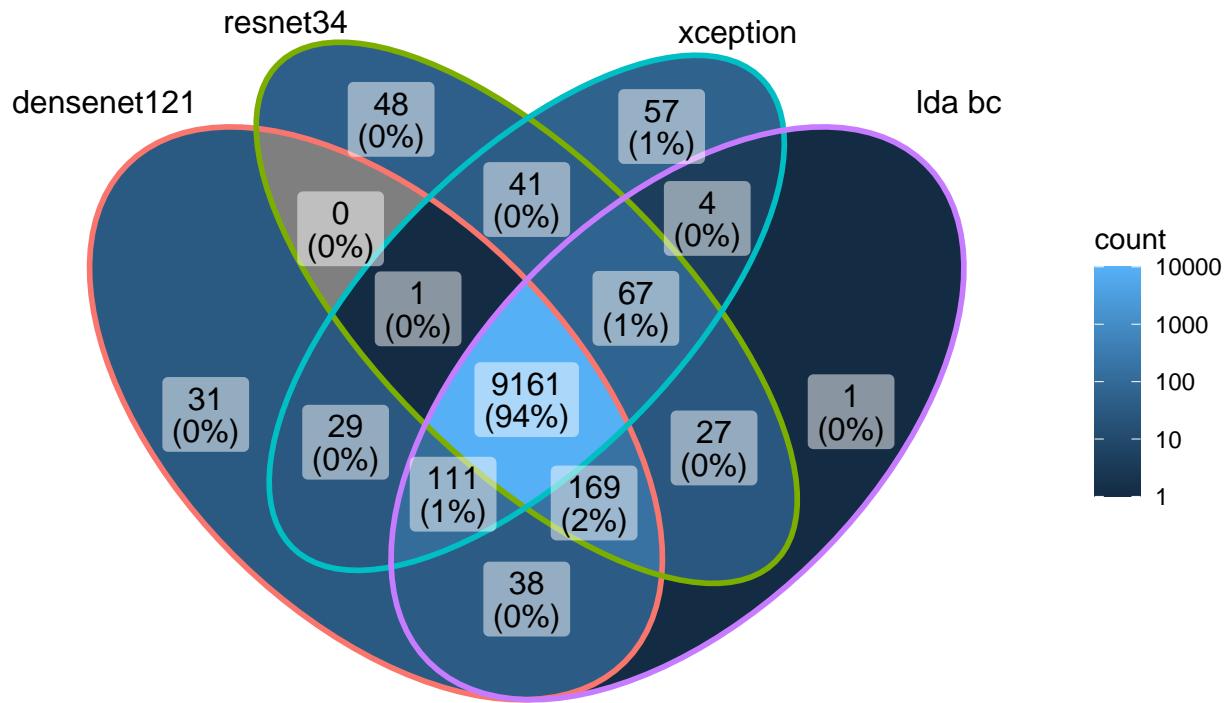
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tt – replication 17



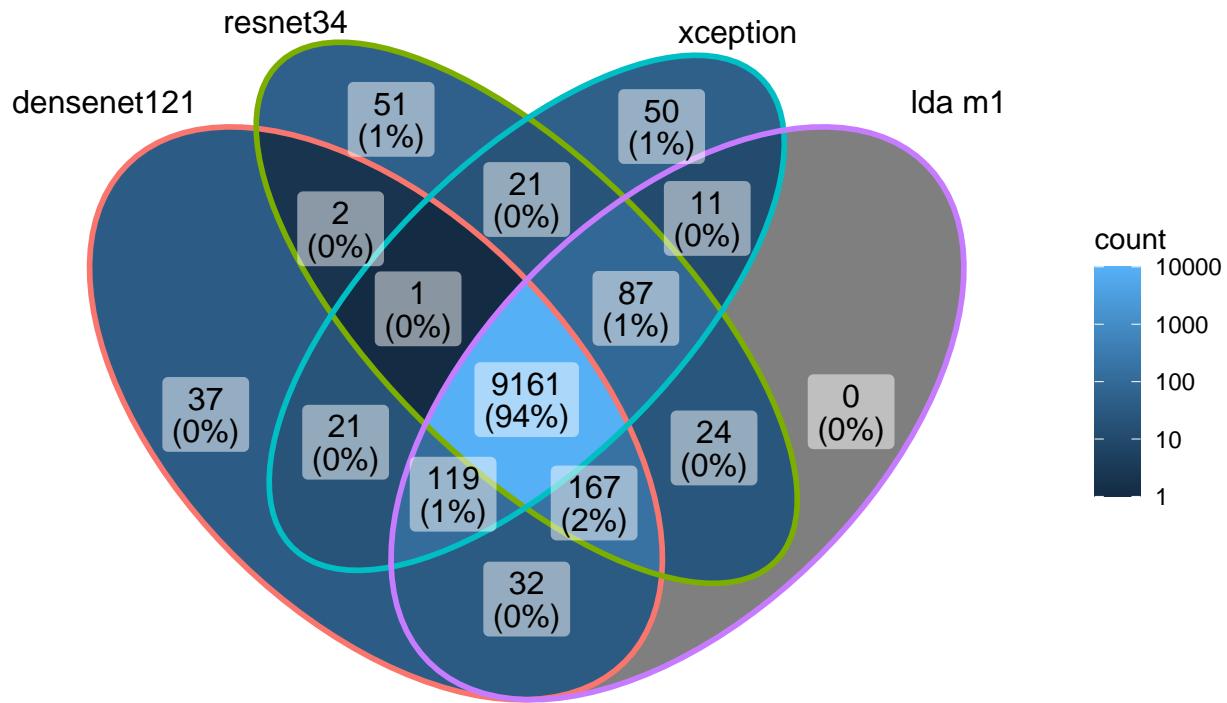
Warning: Transformation introduced infinite values in discrete y-axis

vt – replication 17



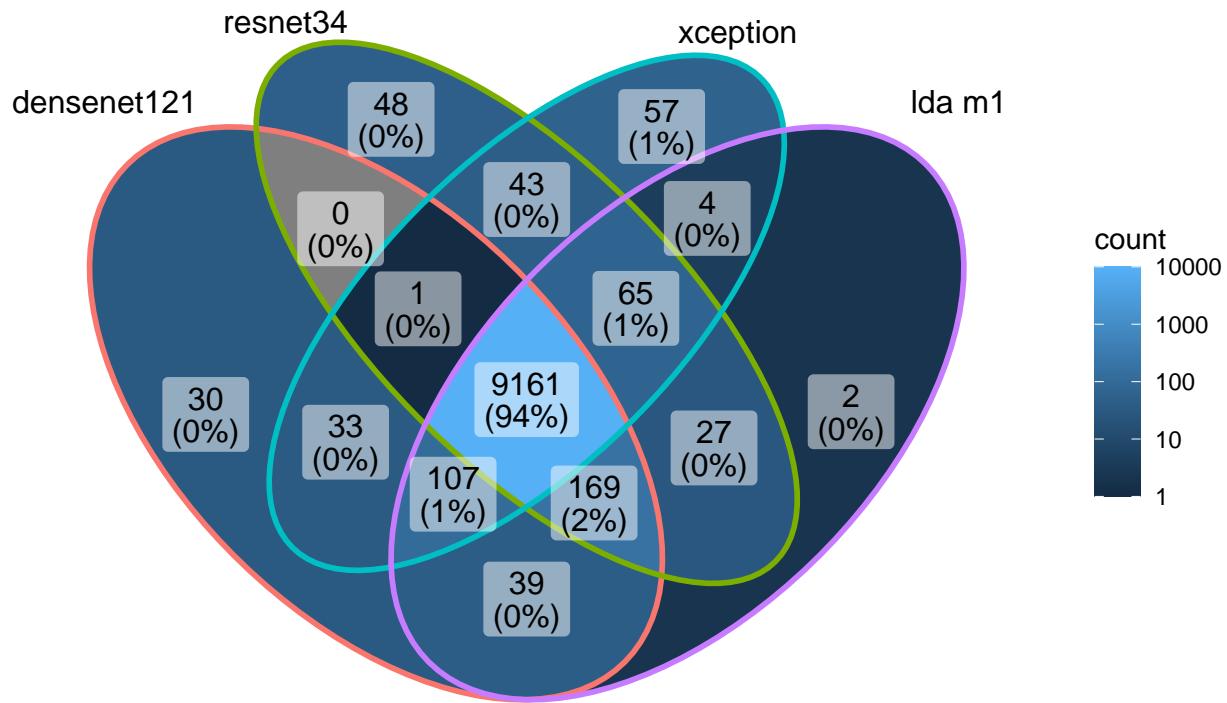
Warning: Transformation introduced infinite values in discrete y-axis

tt – replication 17



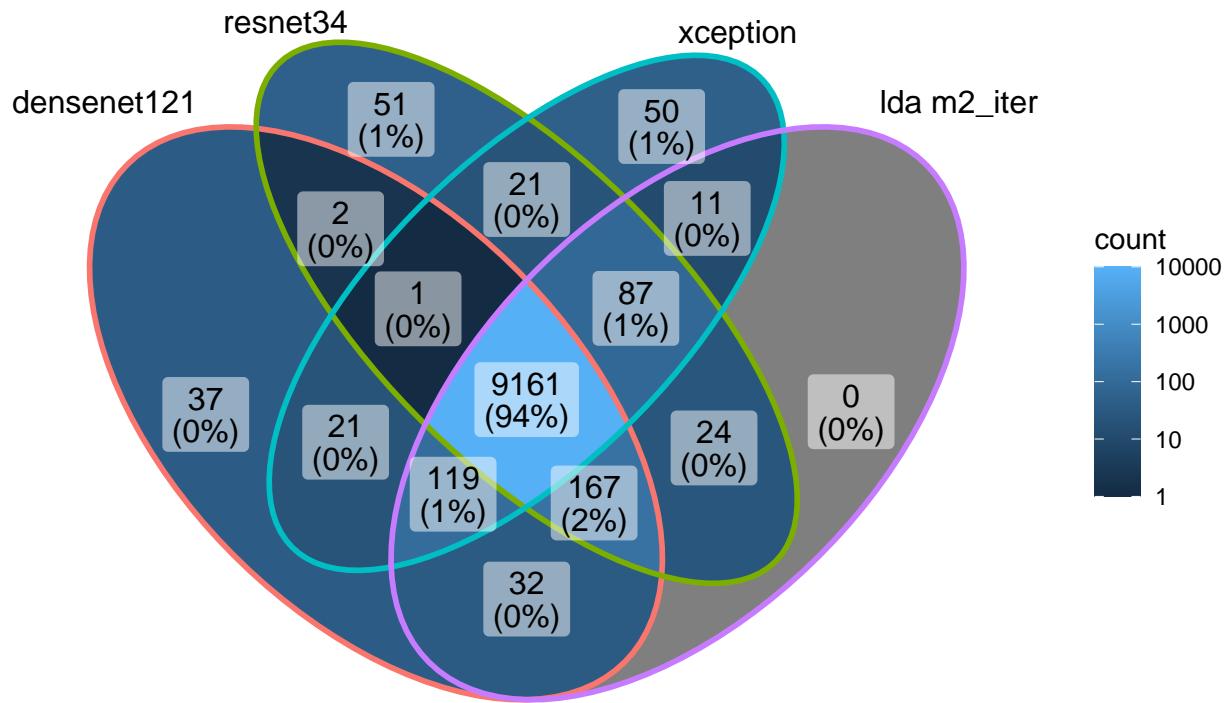
Warning: Transformation introduced infinite values in discrete y-axis

vt – replication 17



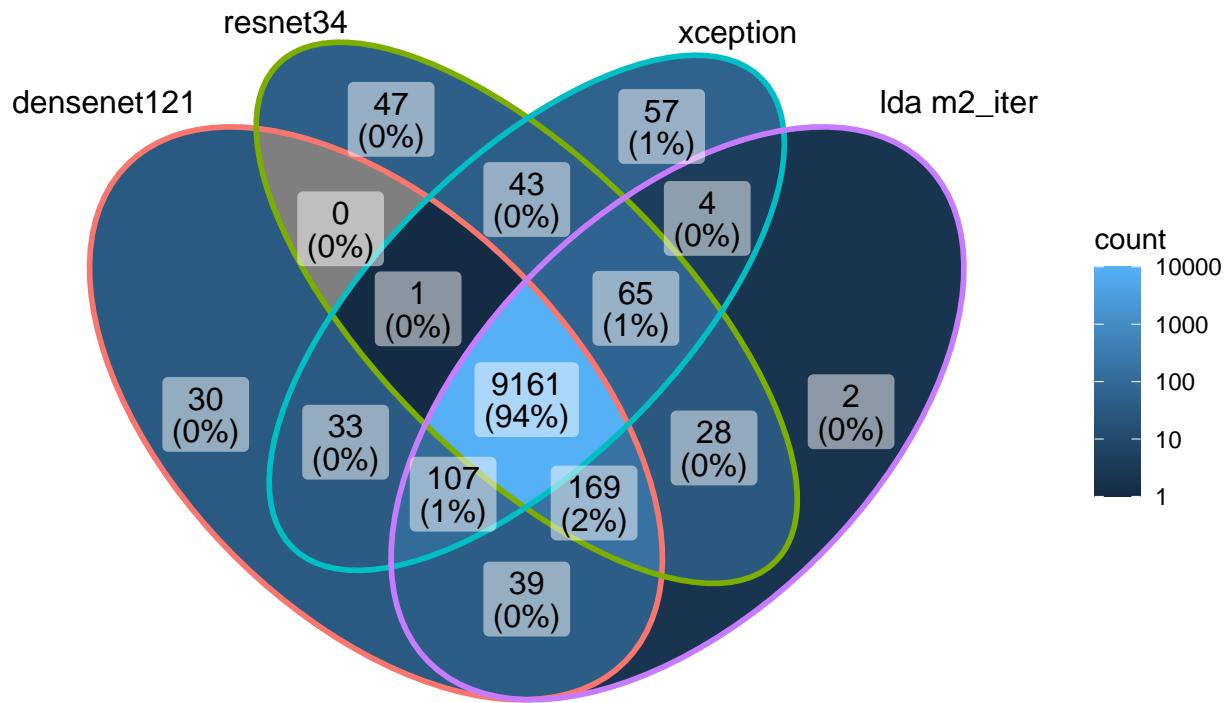
Warning: Transformation introduced infinite values in discrete y-axis

tt – replication 17



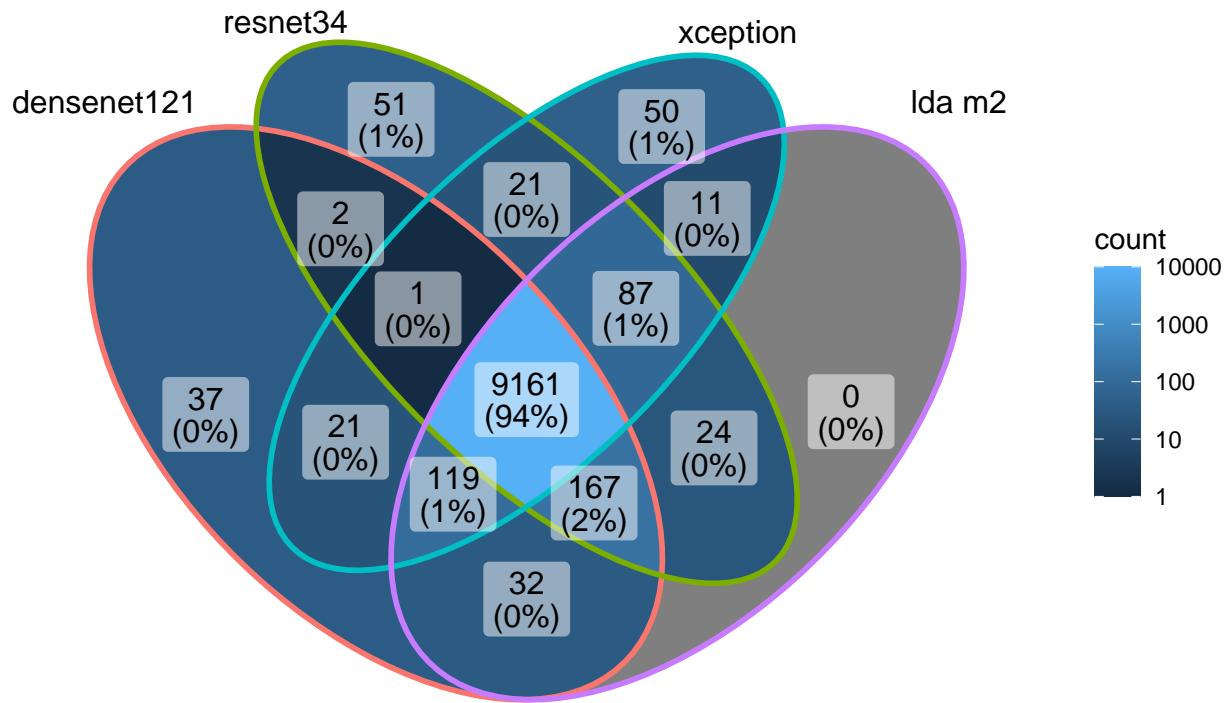
Warning: Transformation introduced infinite values in discrete y-axis

vt – replication 17



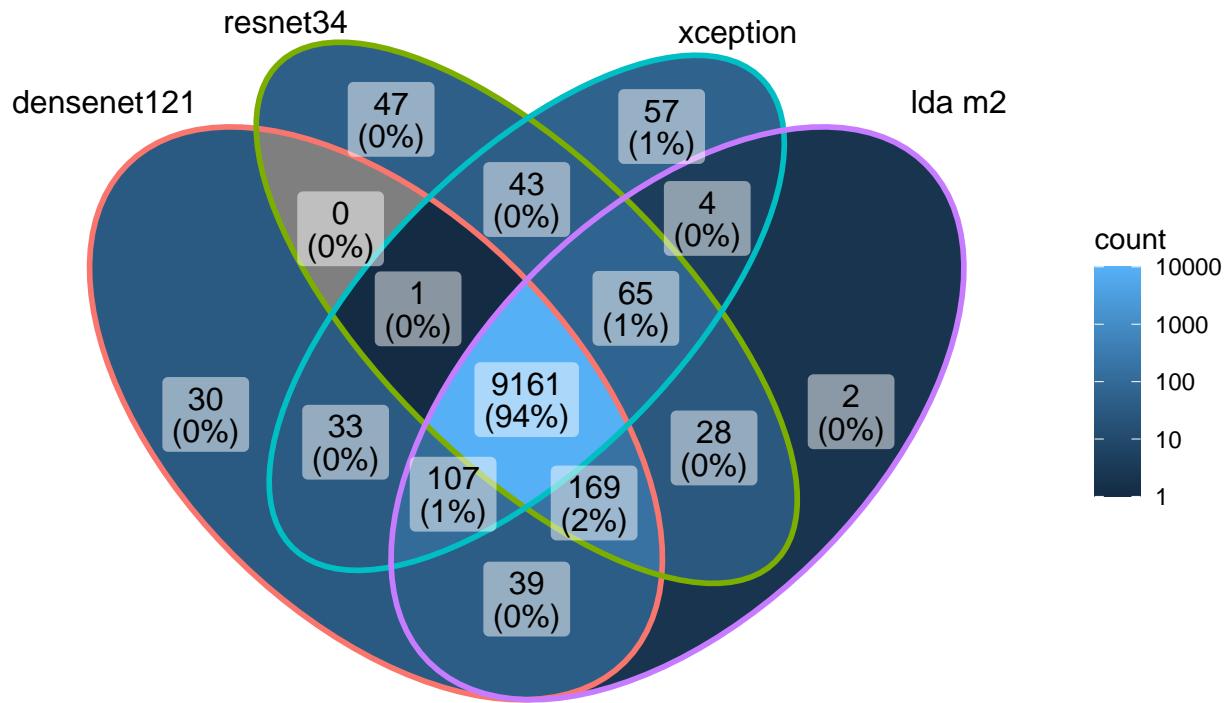
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tt – replication 17



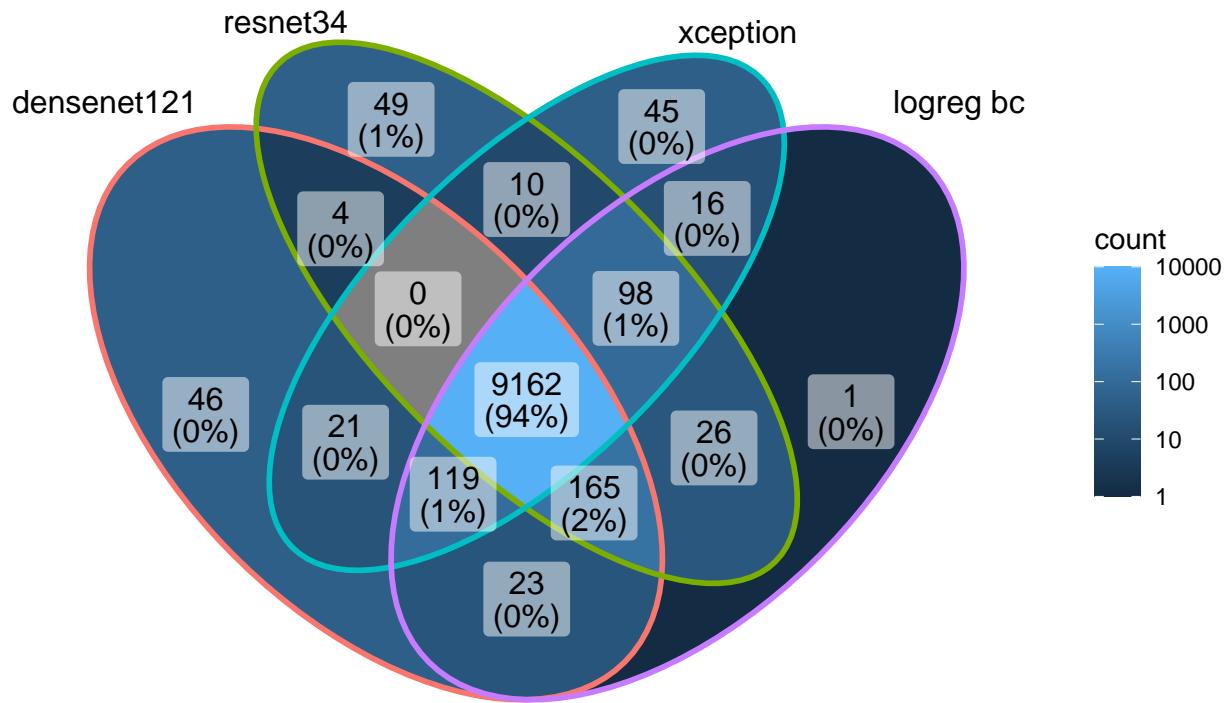
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vt – replication 17

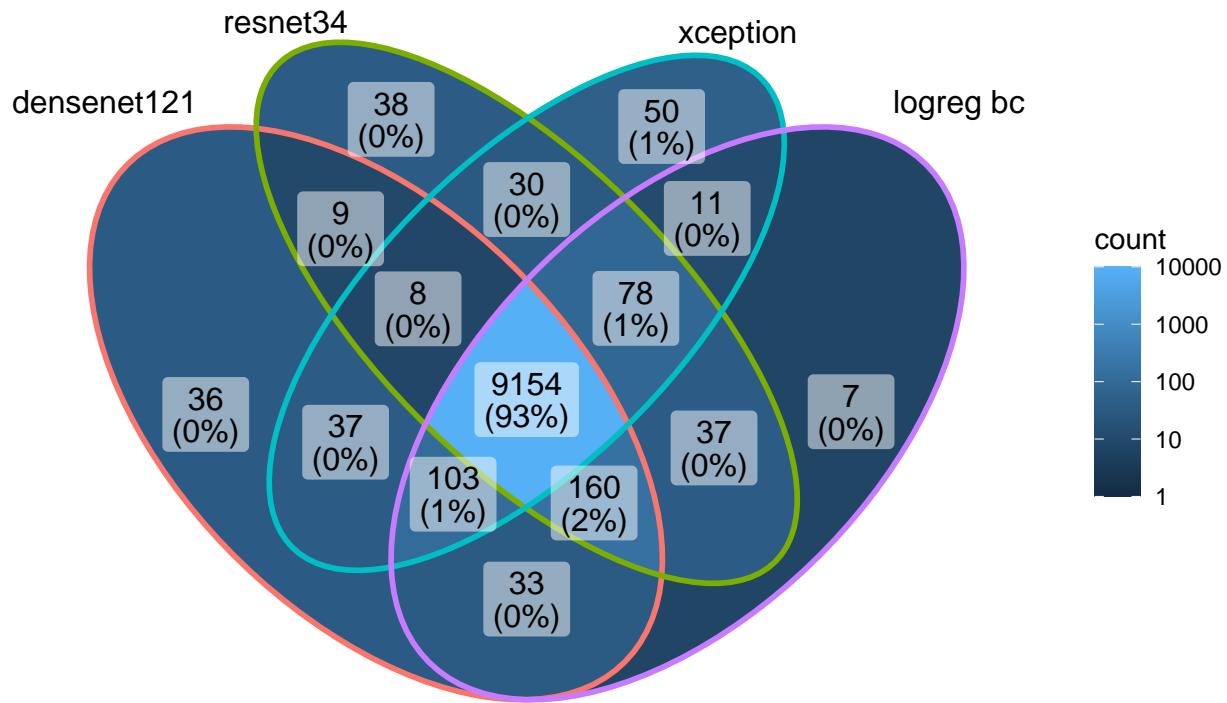


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tt – replication 17

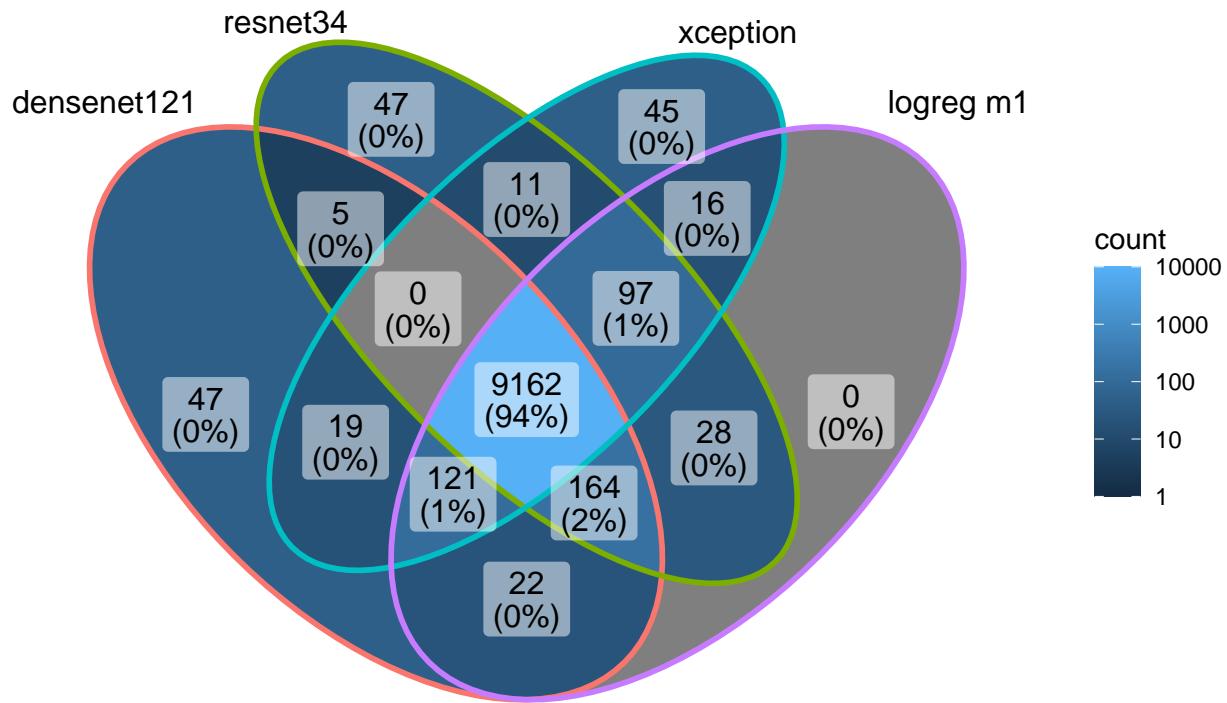


vt – replication 17

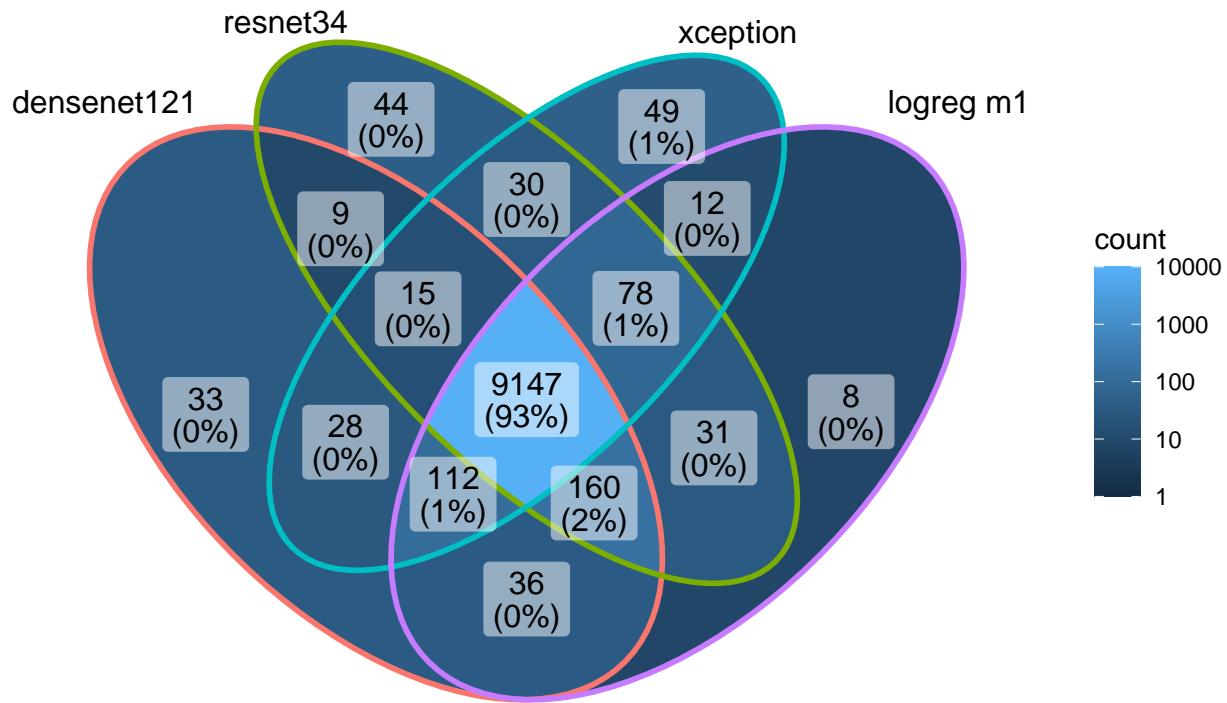


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tt – replication 17

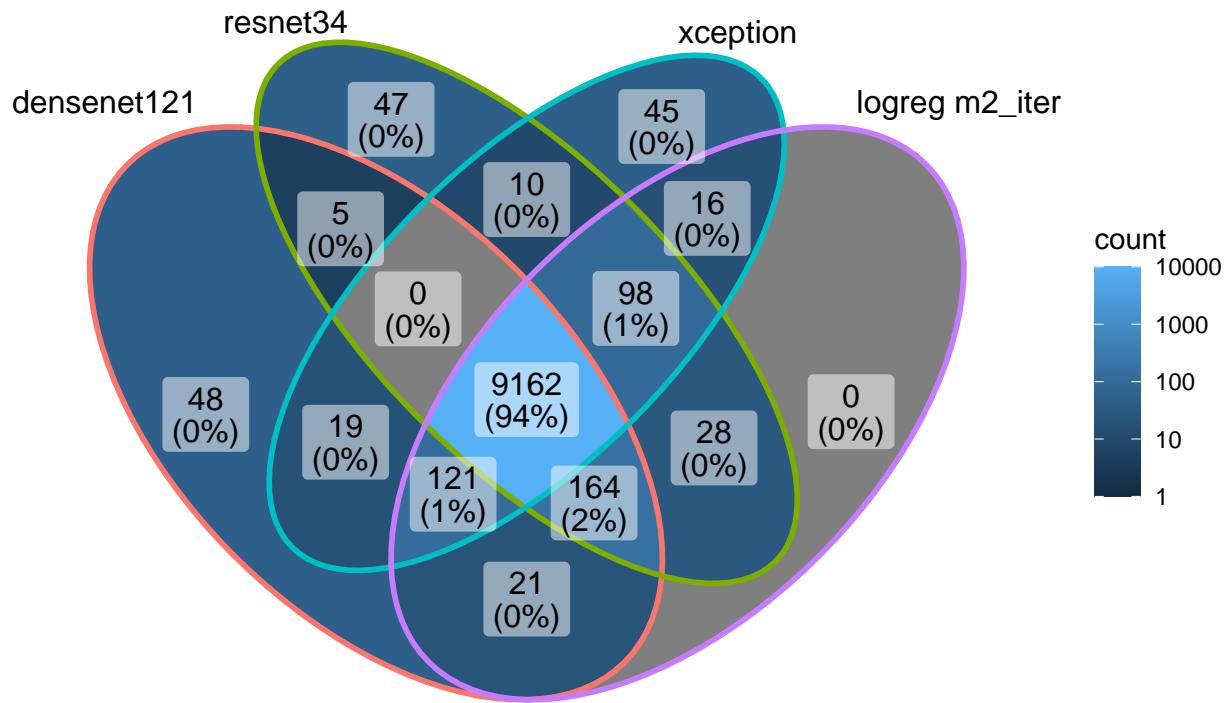


vt – replication 17

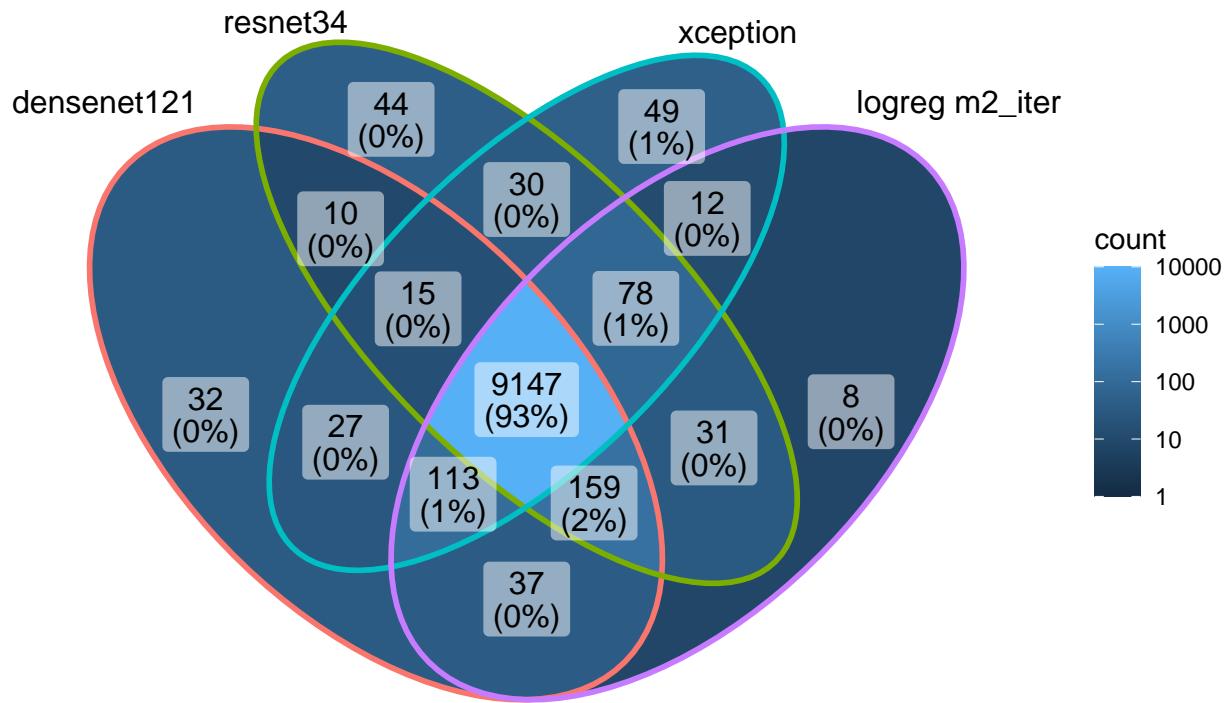


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tt – replication 17

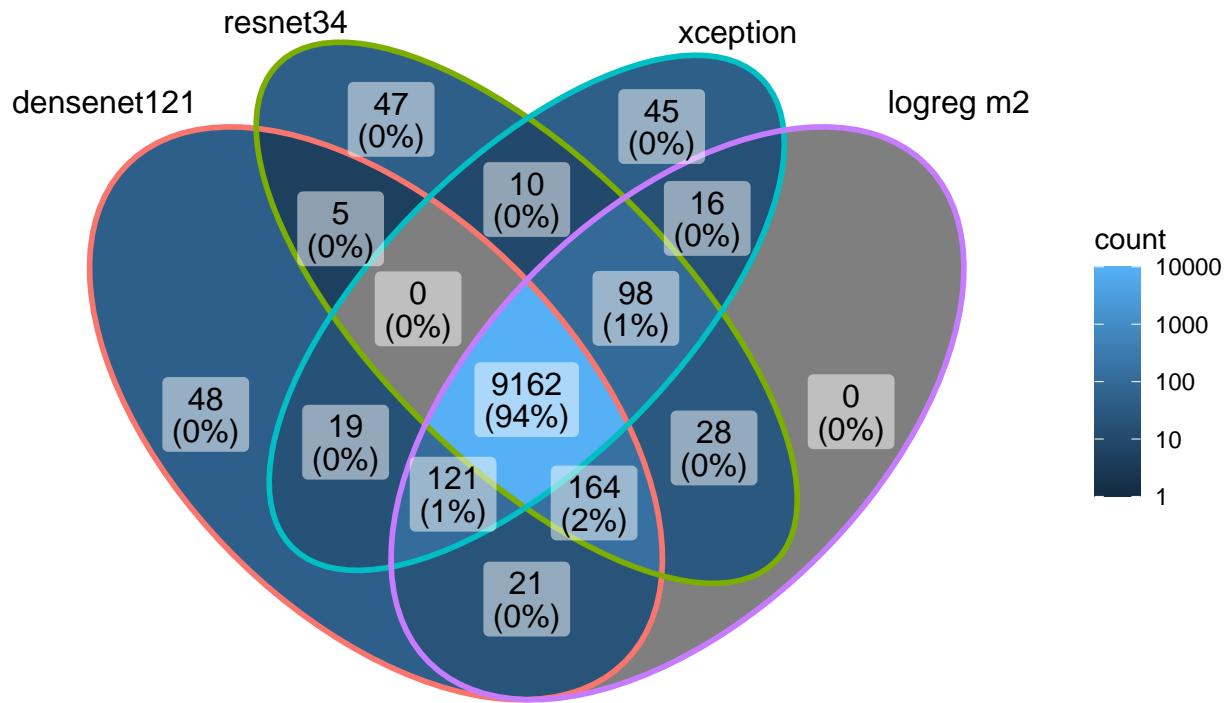


vt – replication 17

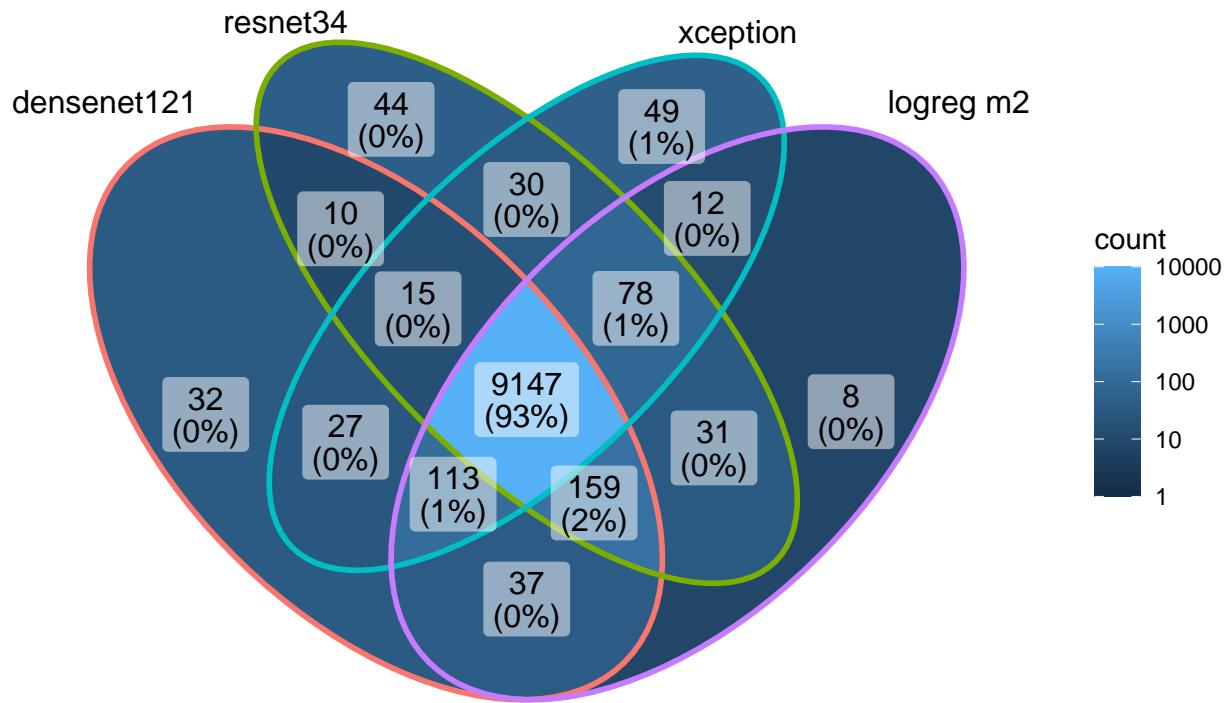


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tt – replication 17

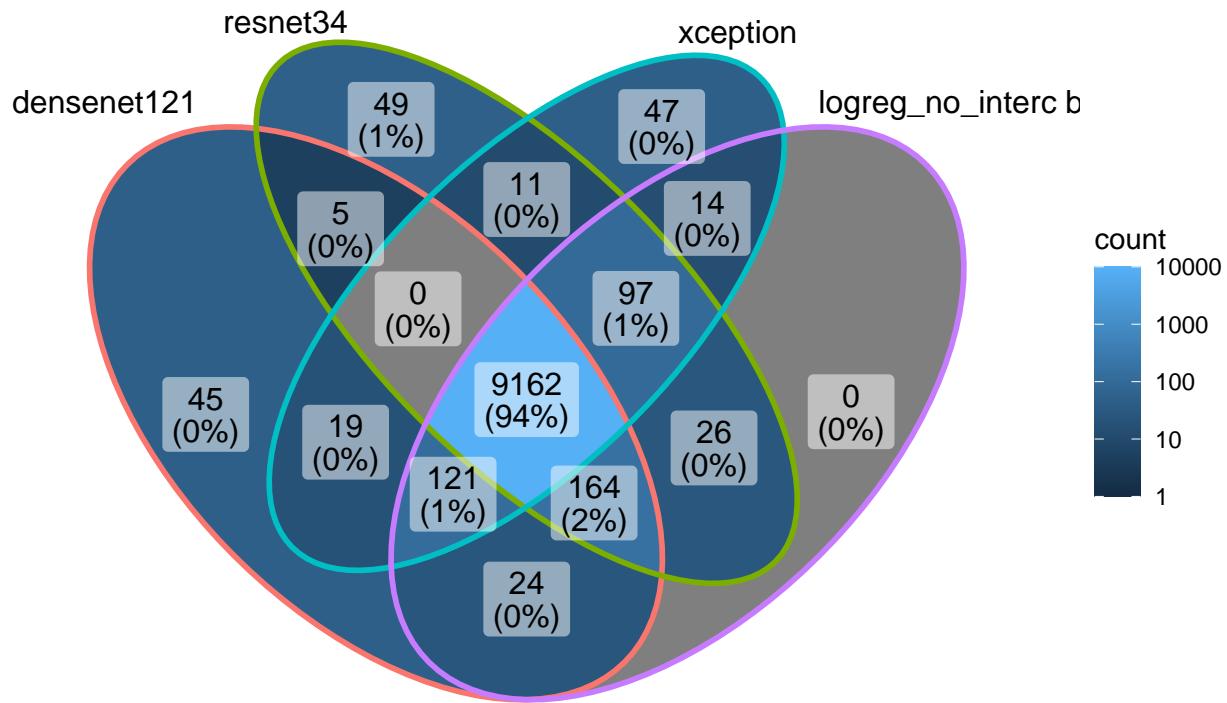


vt – replication 17



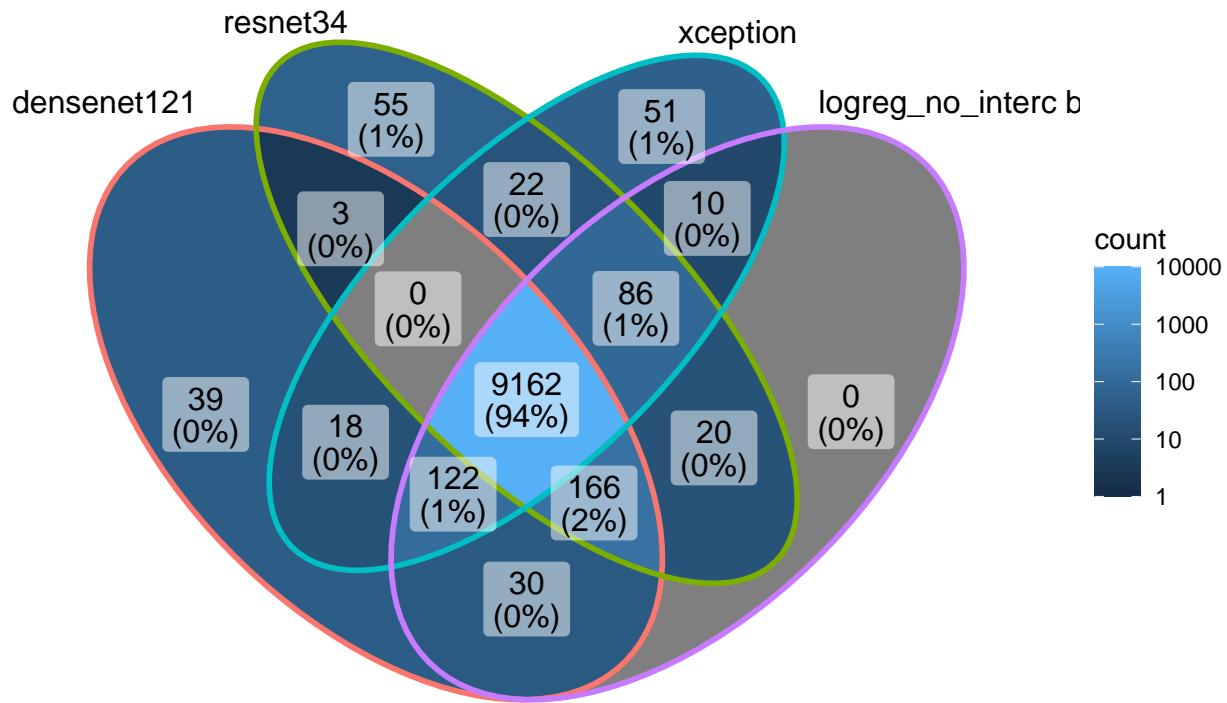
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tt – replication 17



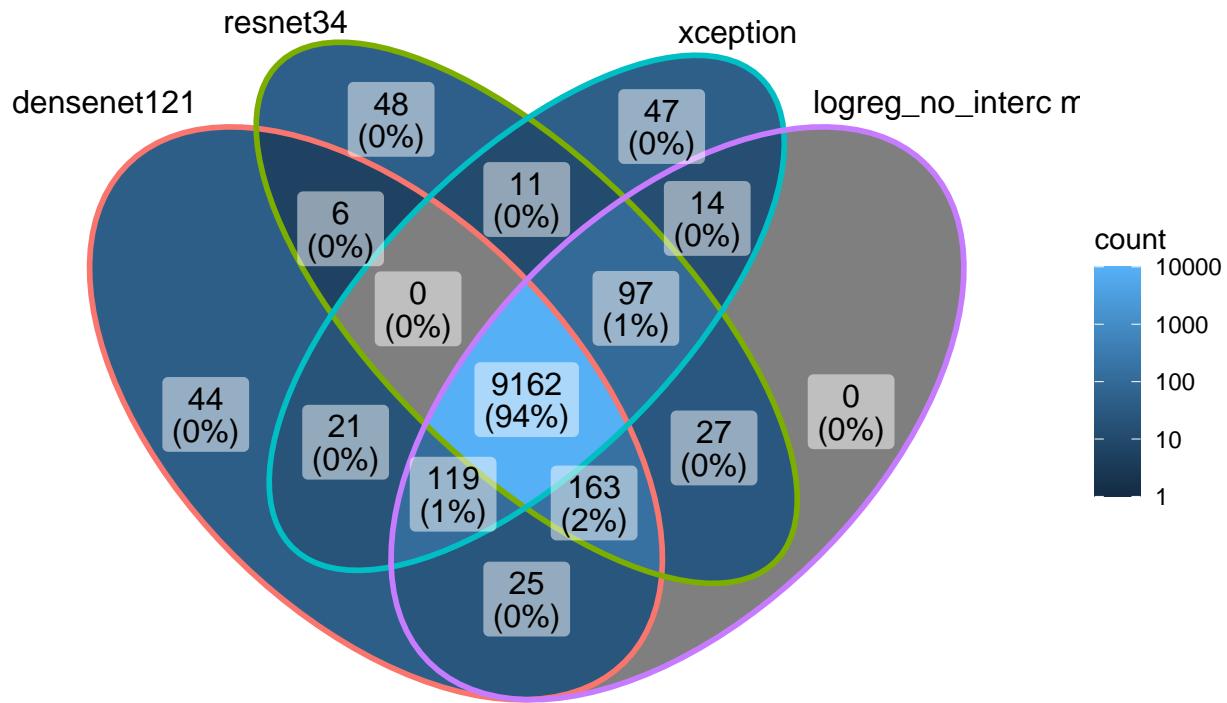
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vt – replication 17

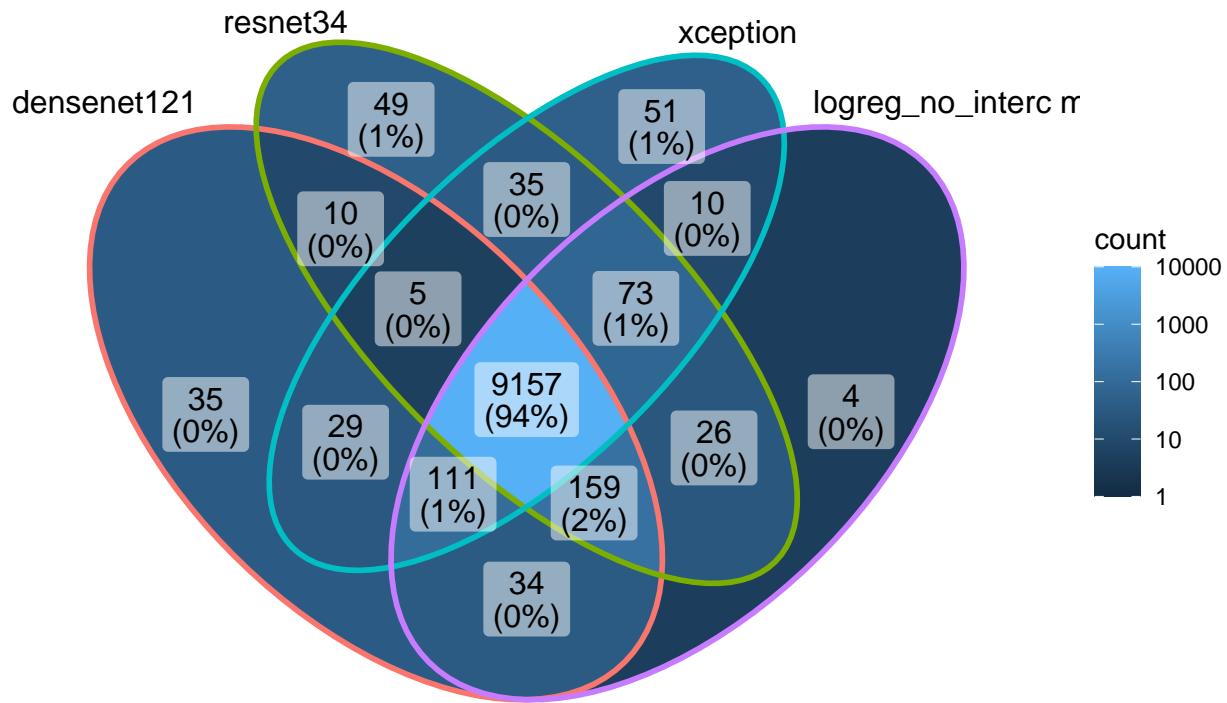


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tt – replication 17

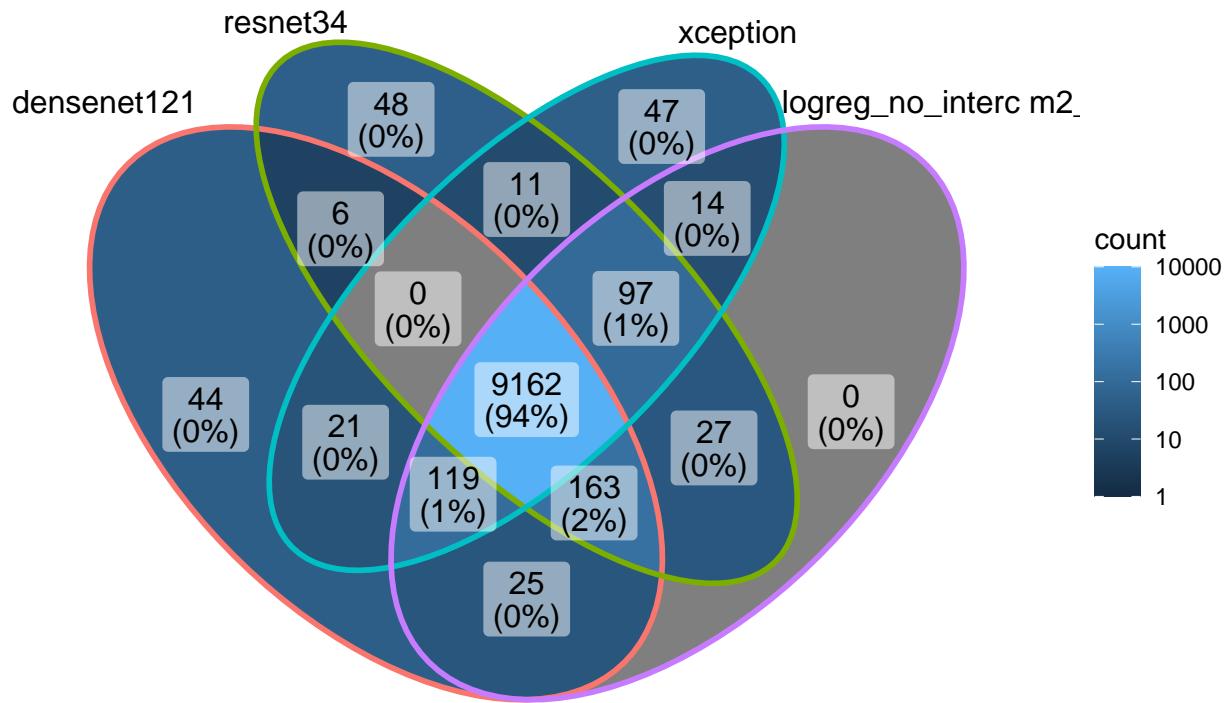


vt – replication 17

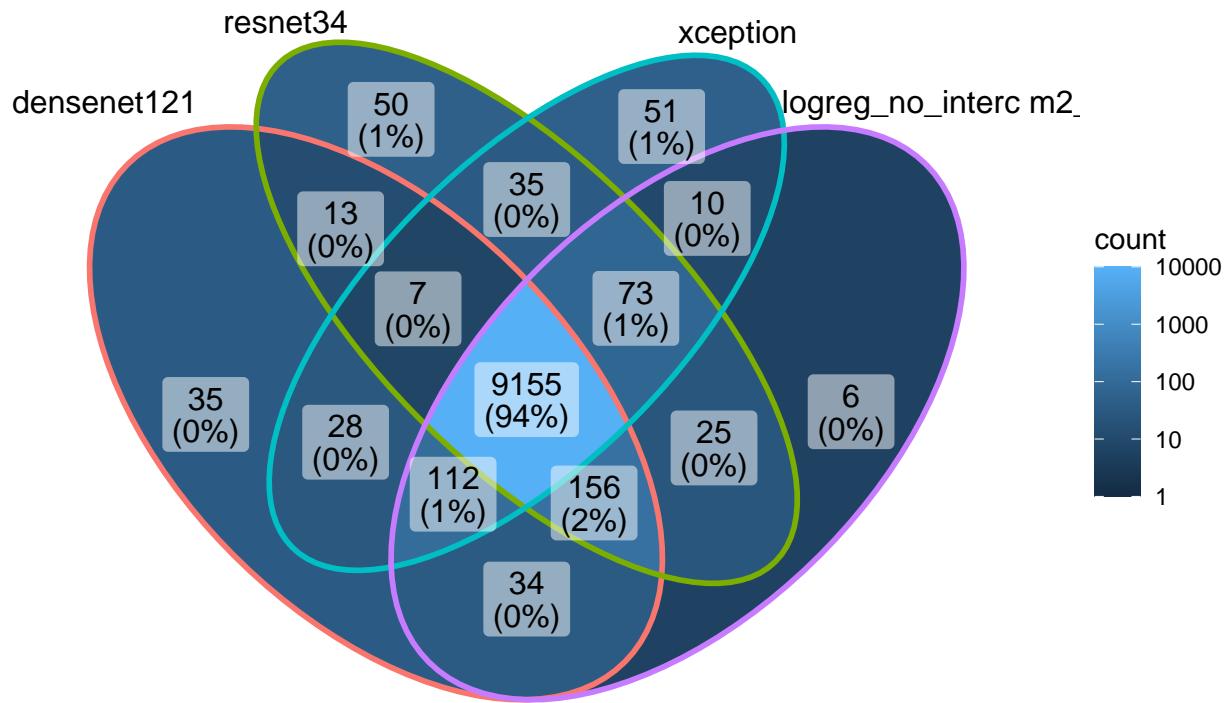


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tt – replication 17

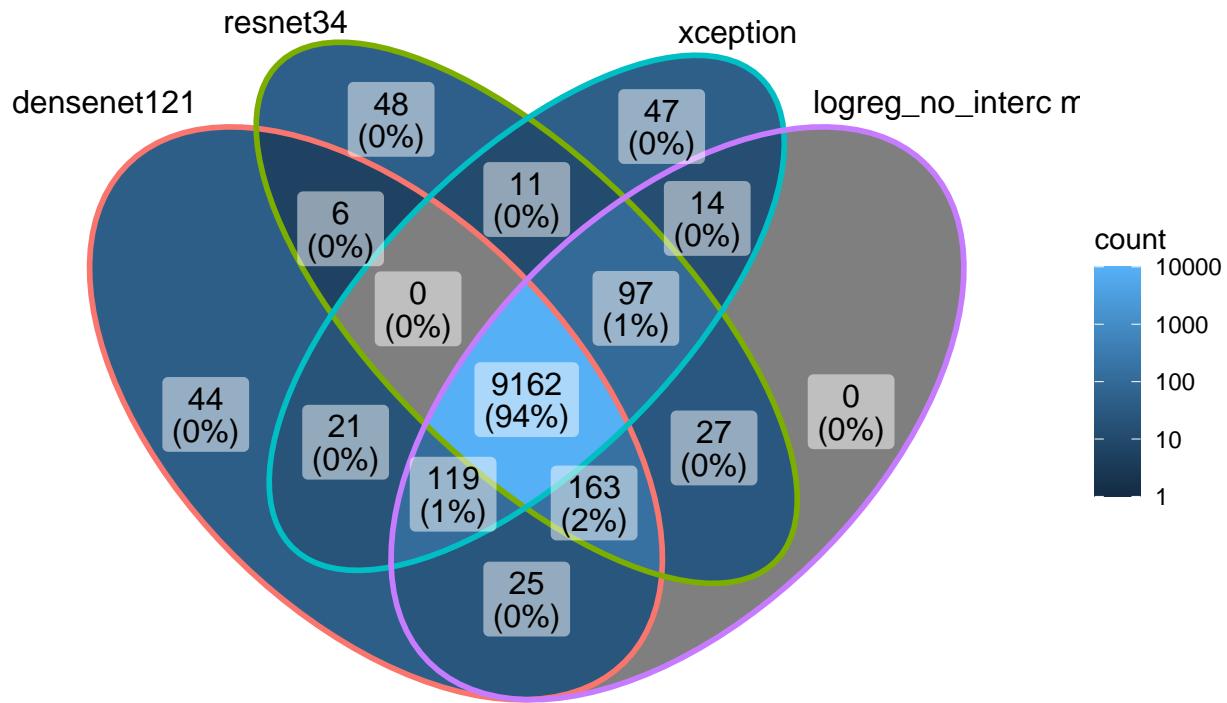


vt – replication 17

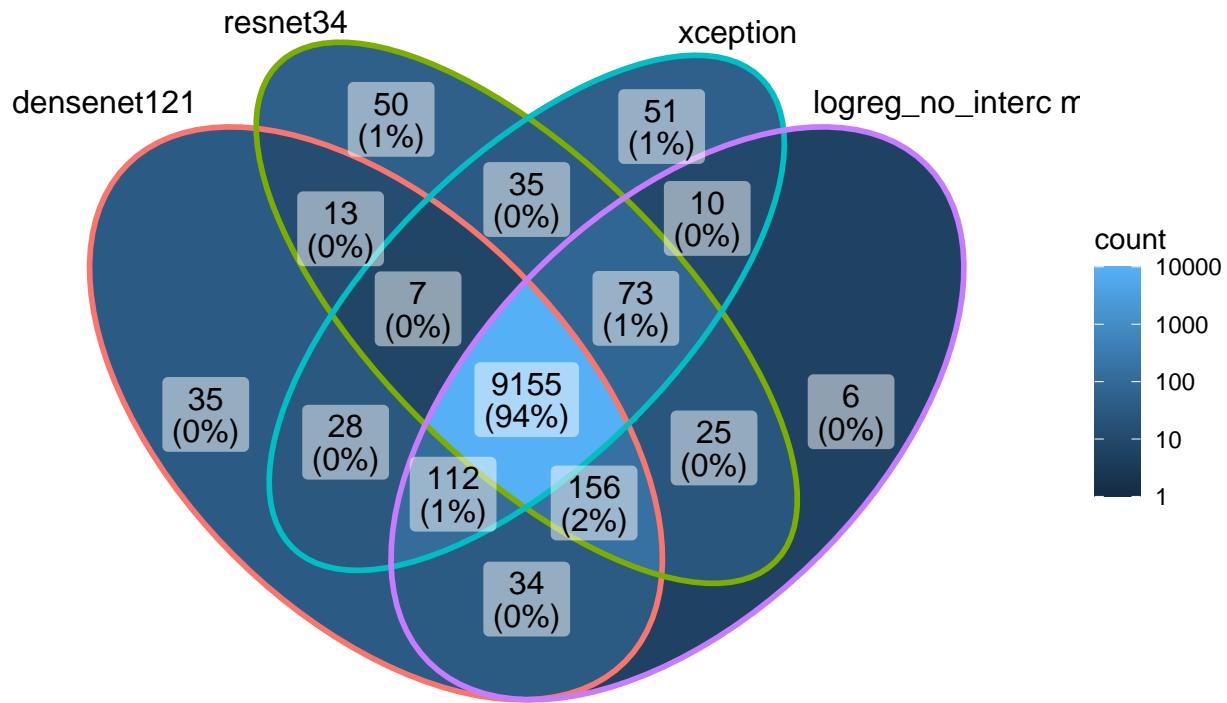


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tt – replication 17

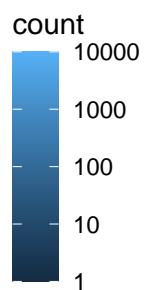
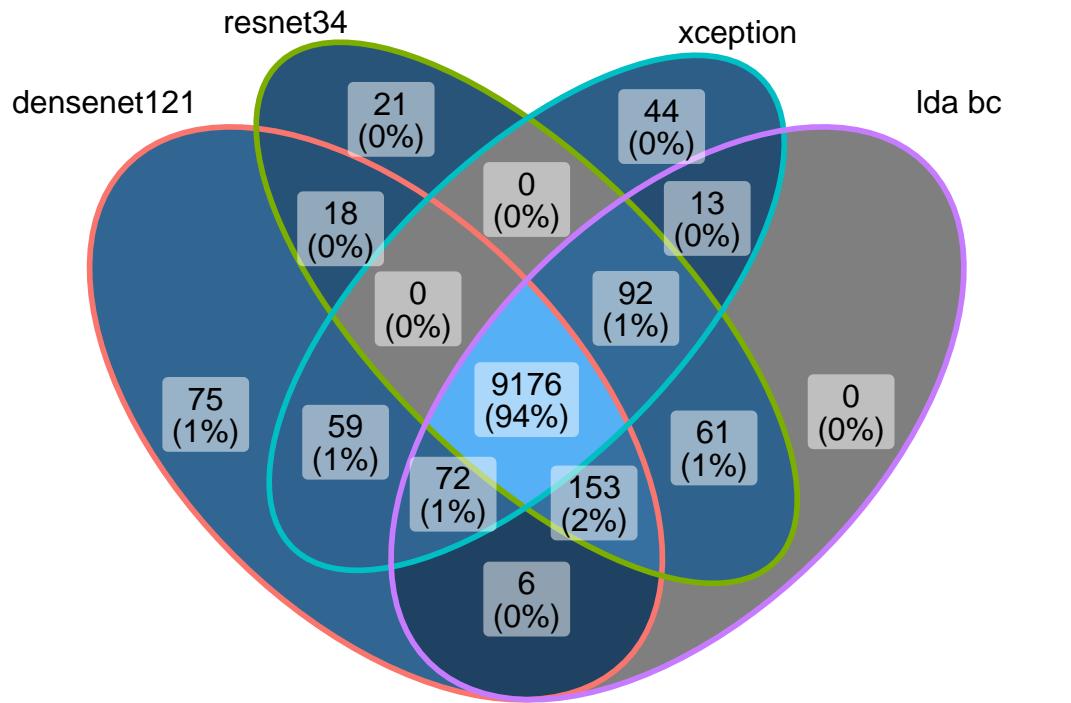


vt – replication 17



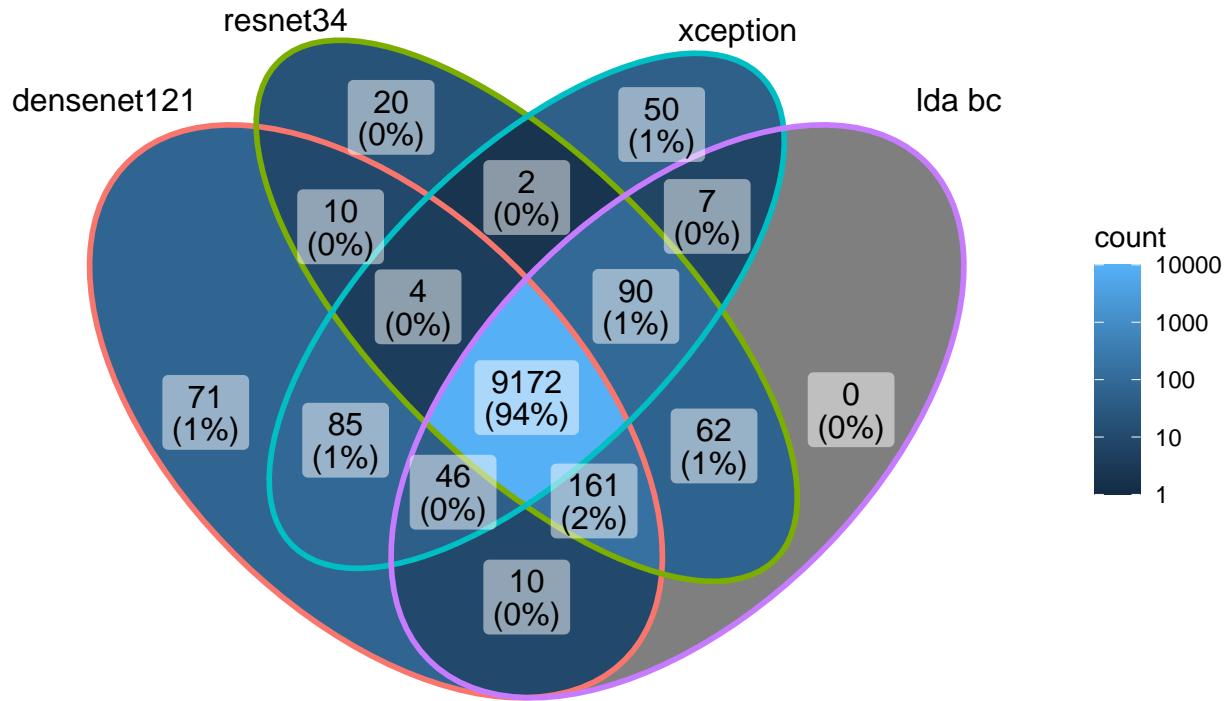
Warning: Transformation introduced infinite values in discrete y-axis

tt – replication 18



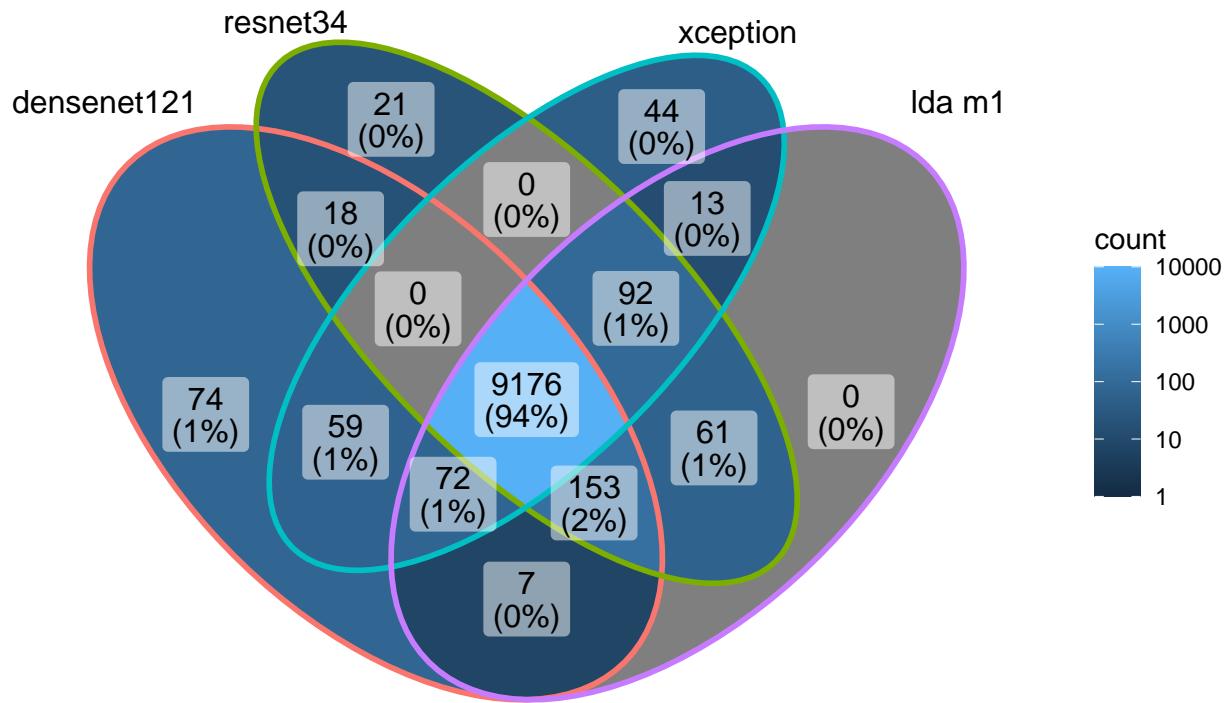
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vt – replication 18



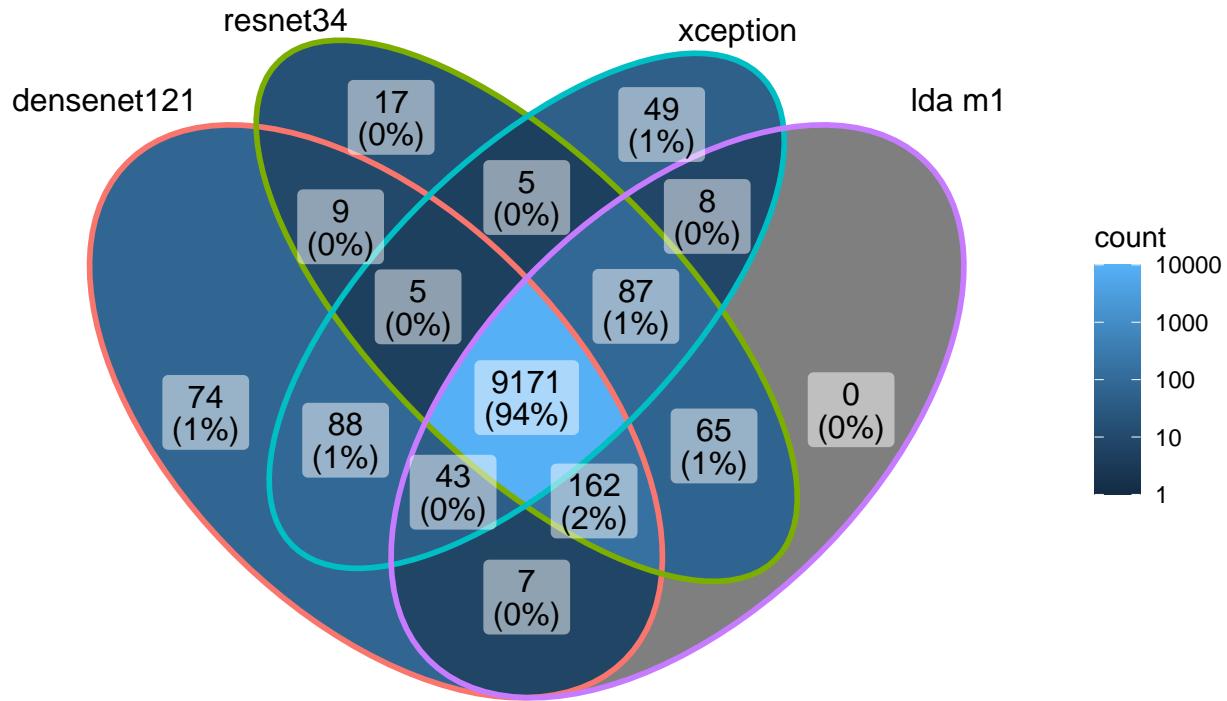
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tt – replication 18



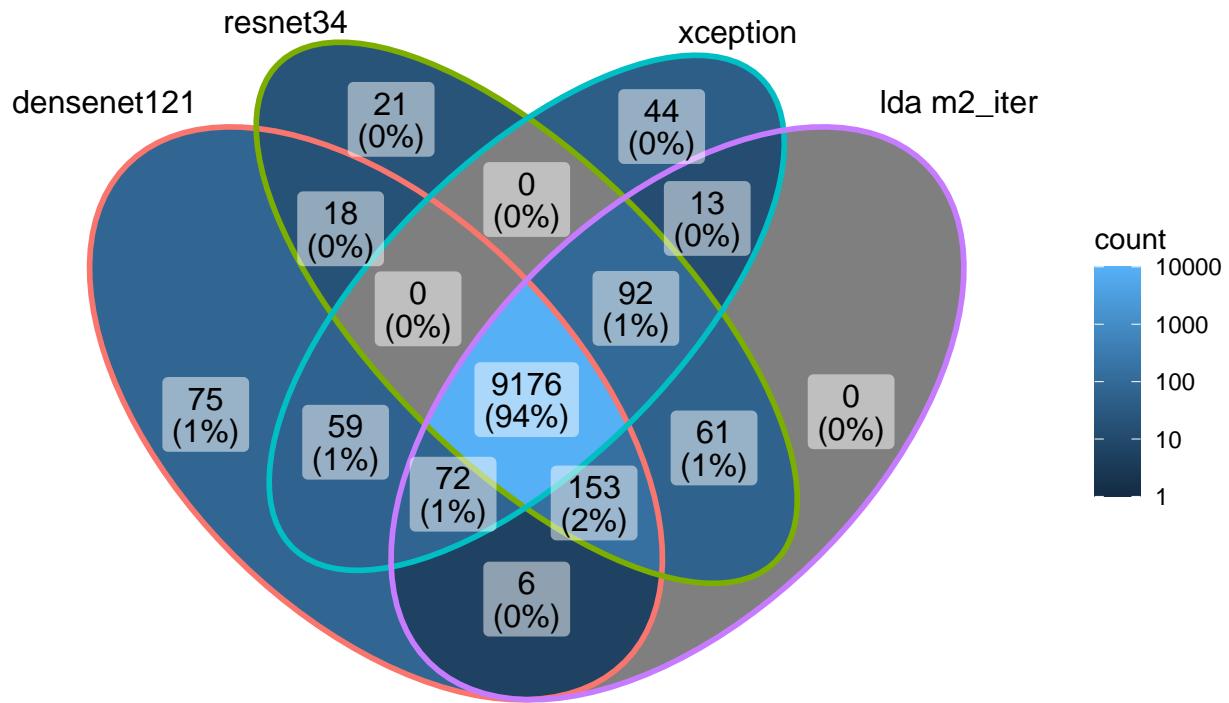
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vt – replication 18



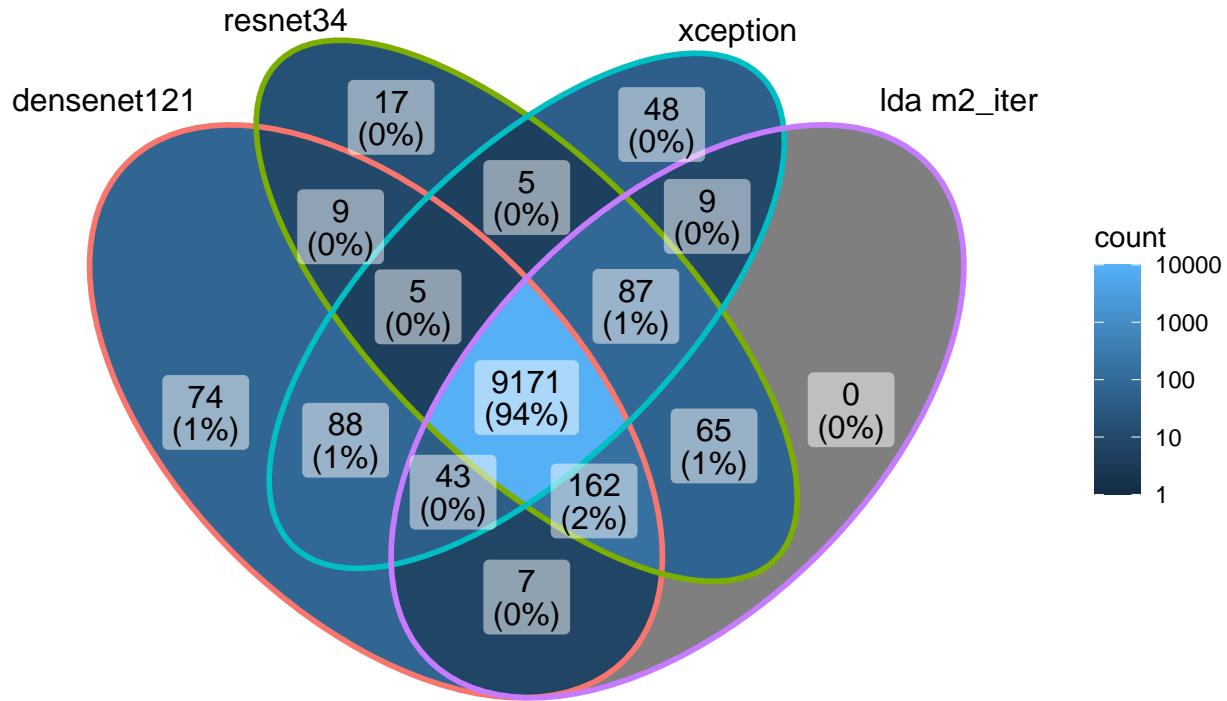
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tt – replication 18



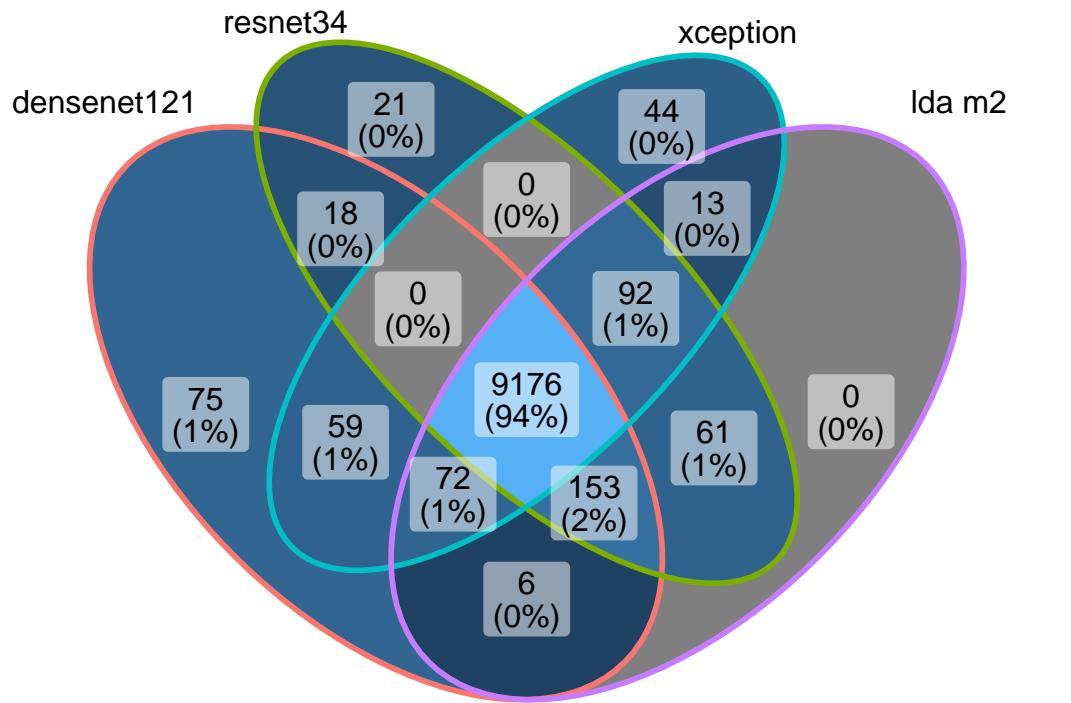
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vt – replication 18



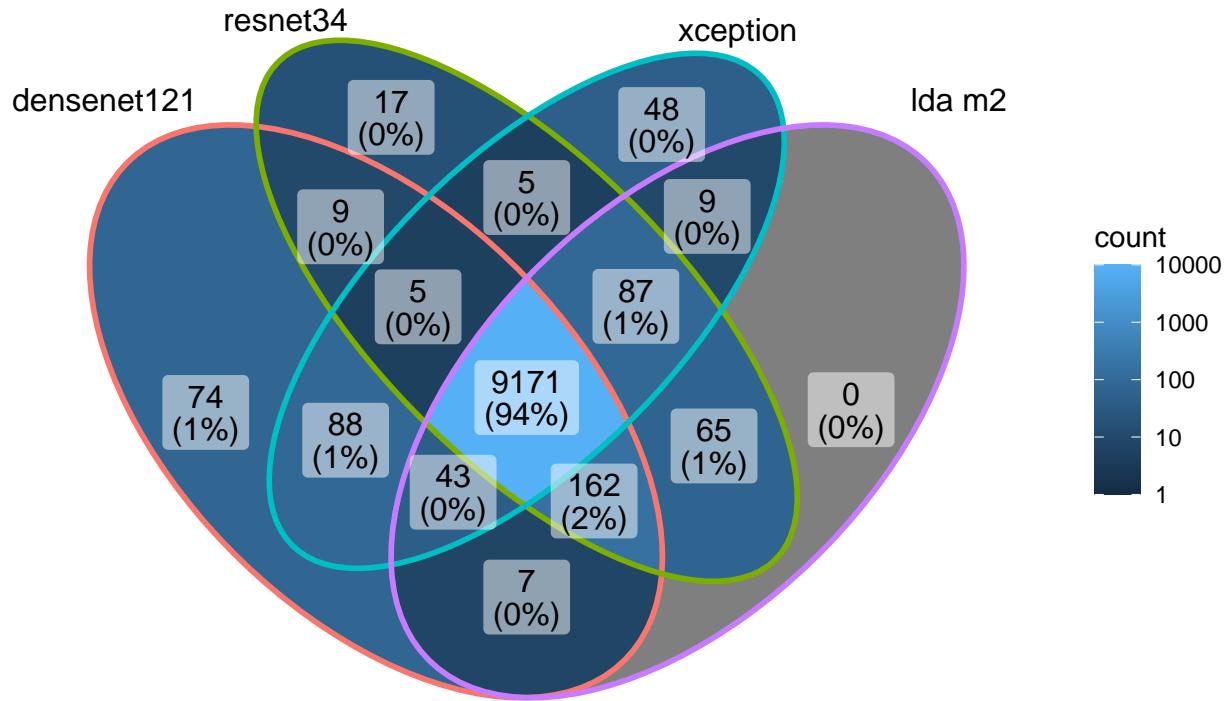
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tt – replication 18



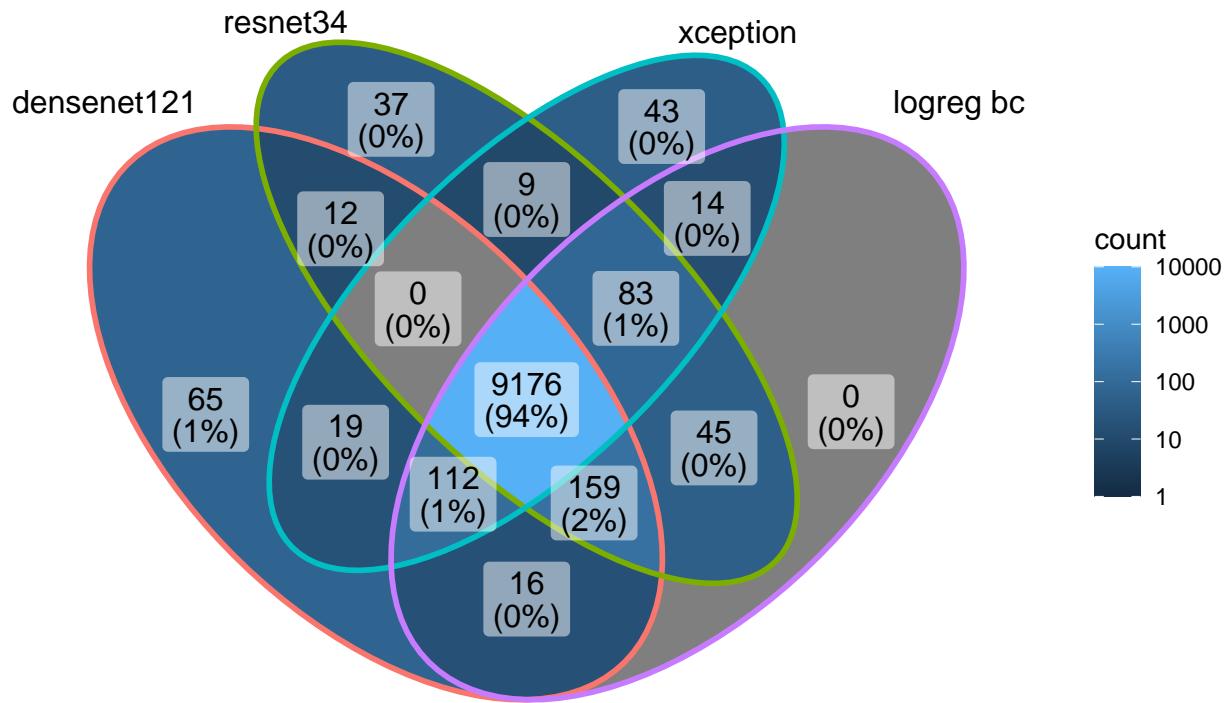
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vt – replication 18

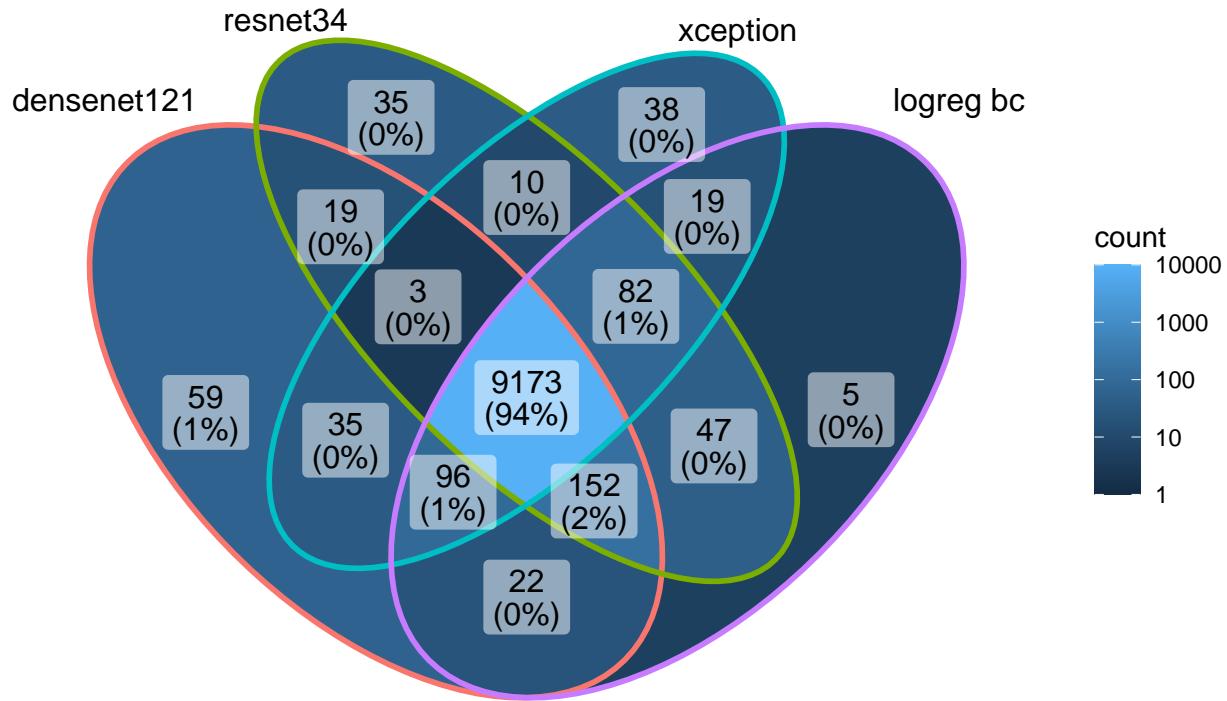


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tt – replication 18

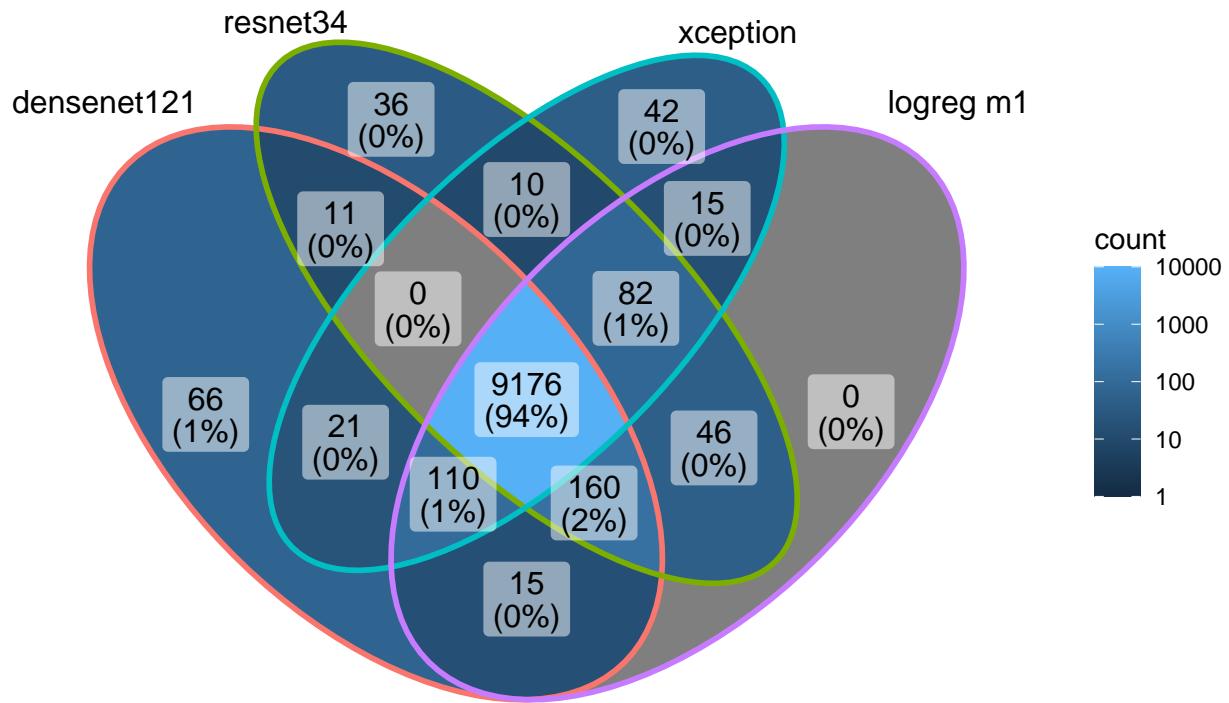


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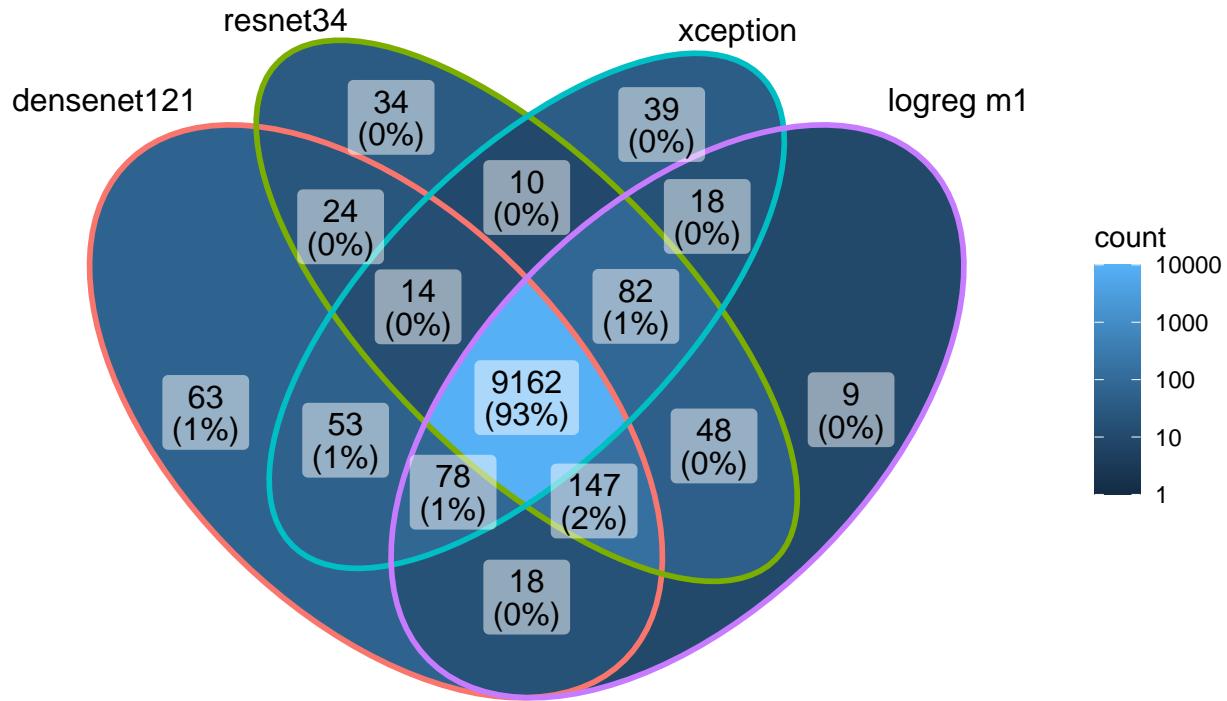


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tt – replication 18

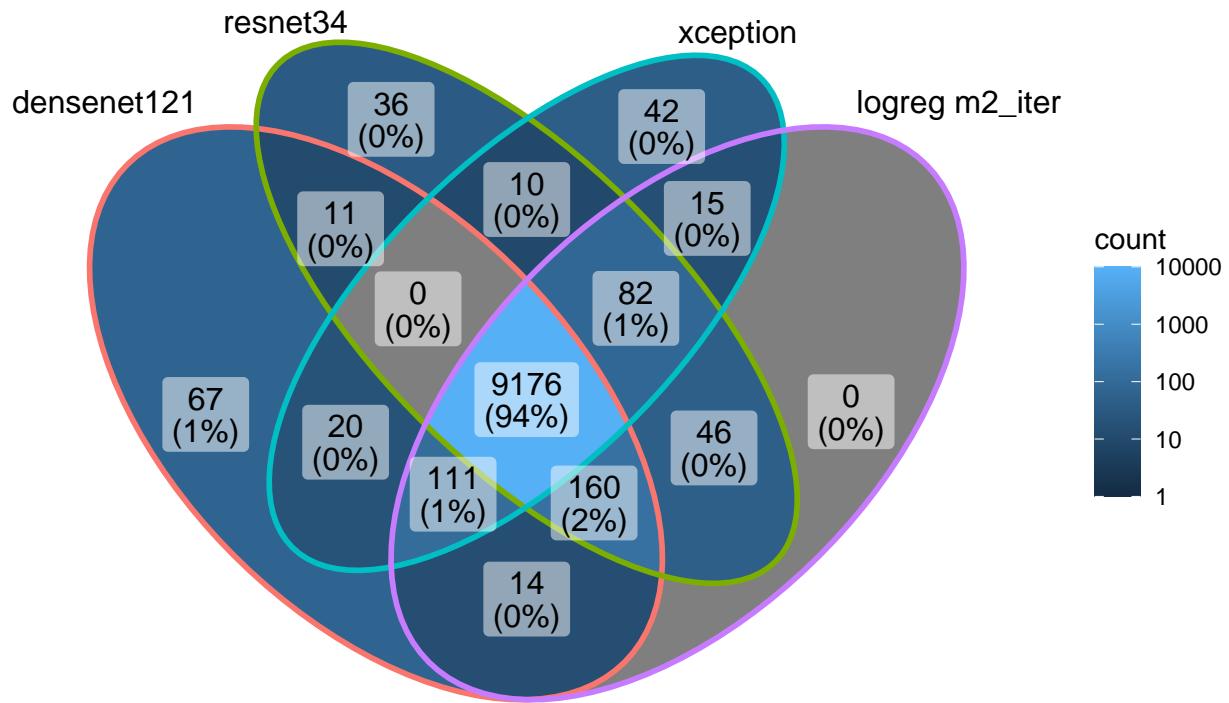


vt – replication 18

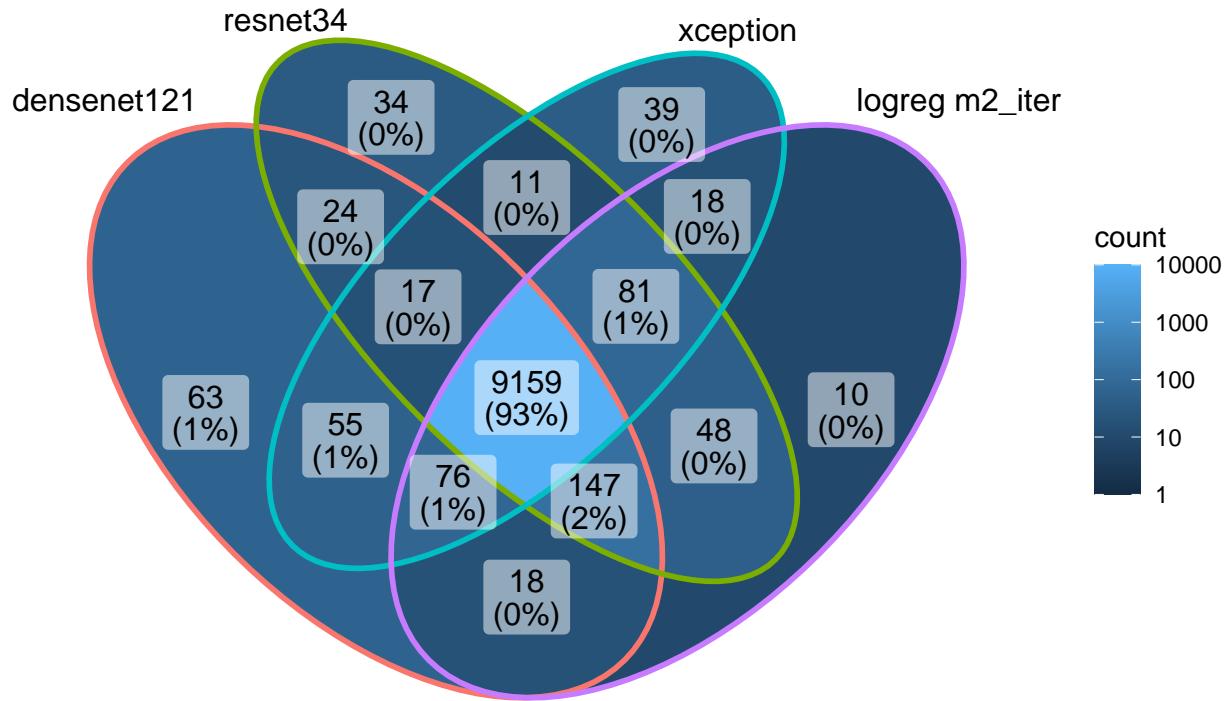


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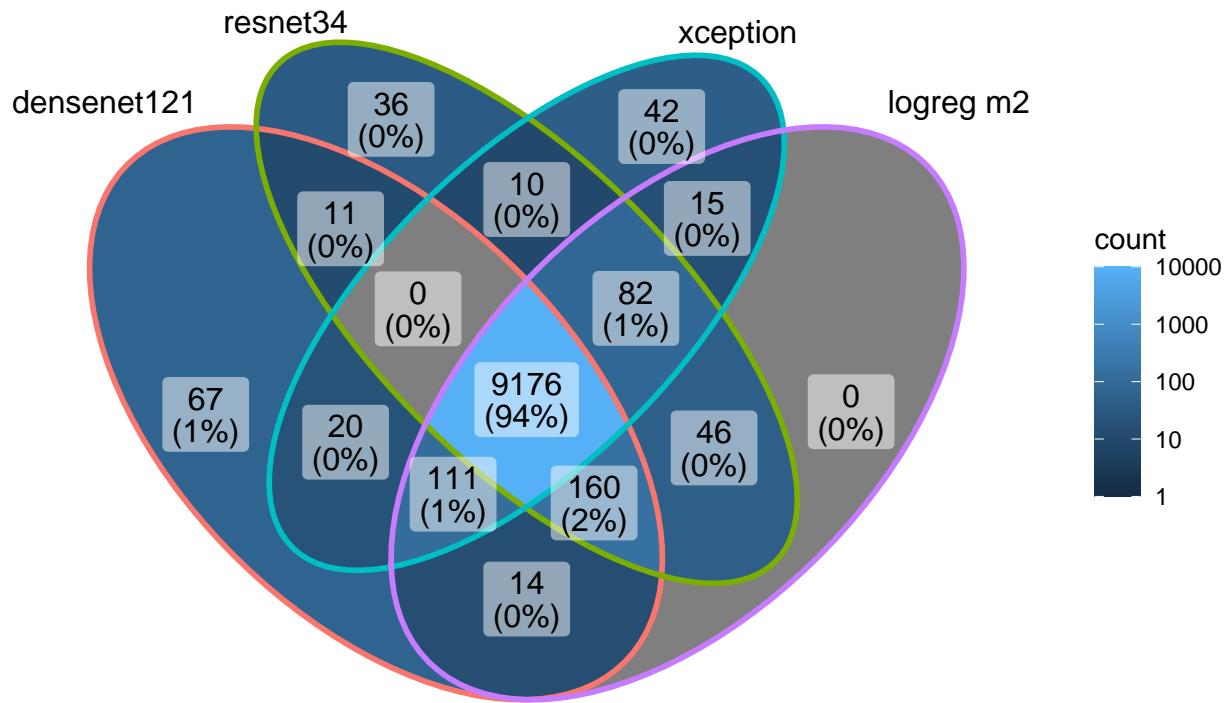


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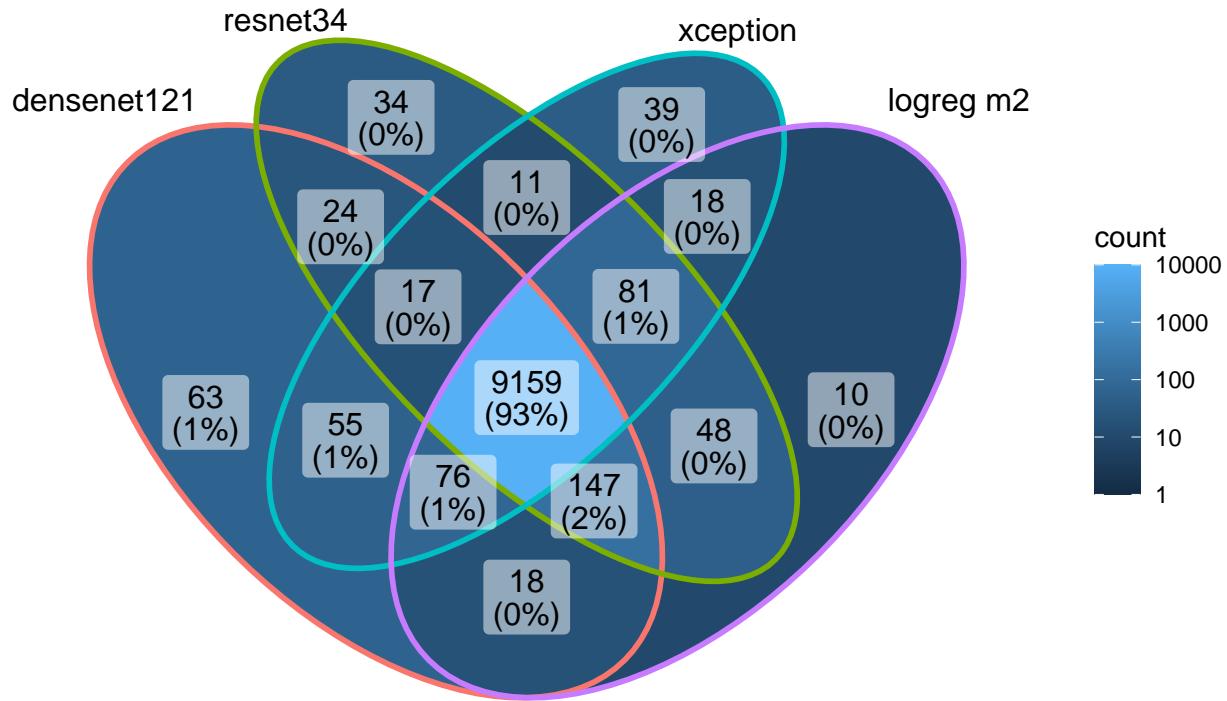


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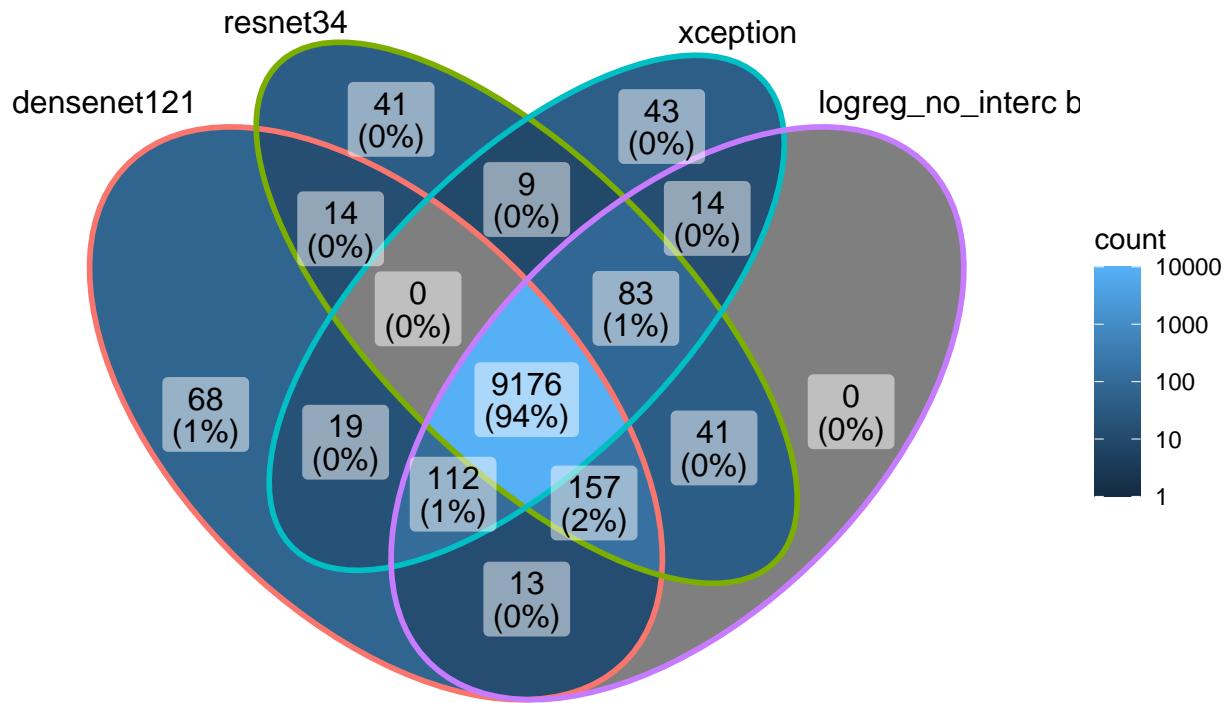


vt – replication 18



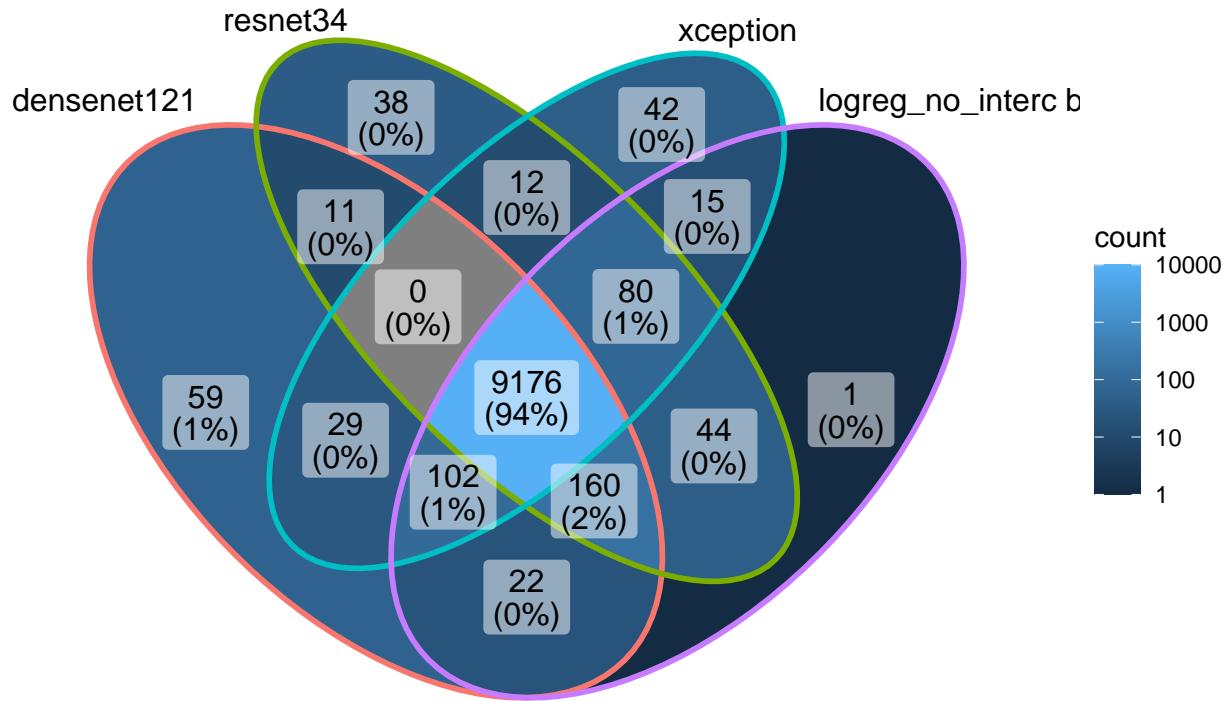
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tt – replication 18



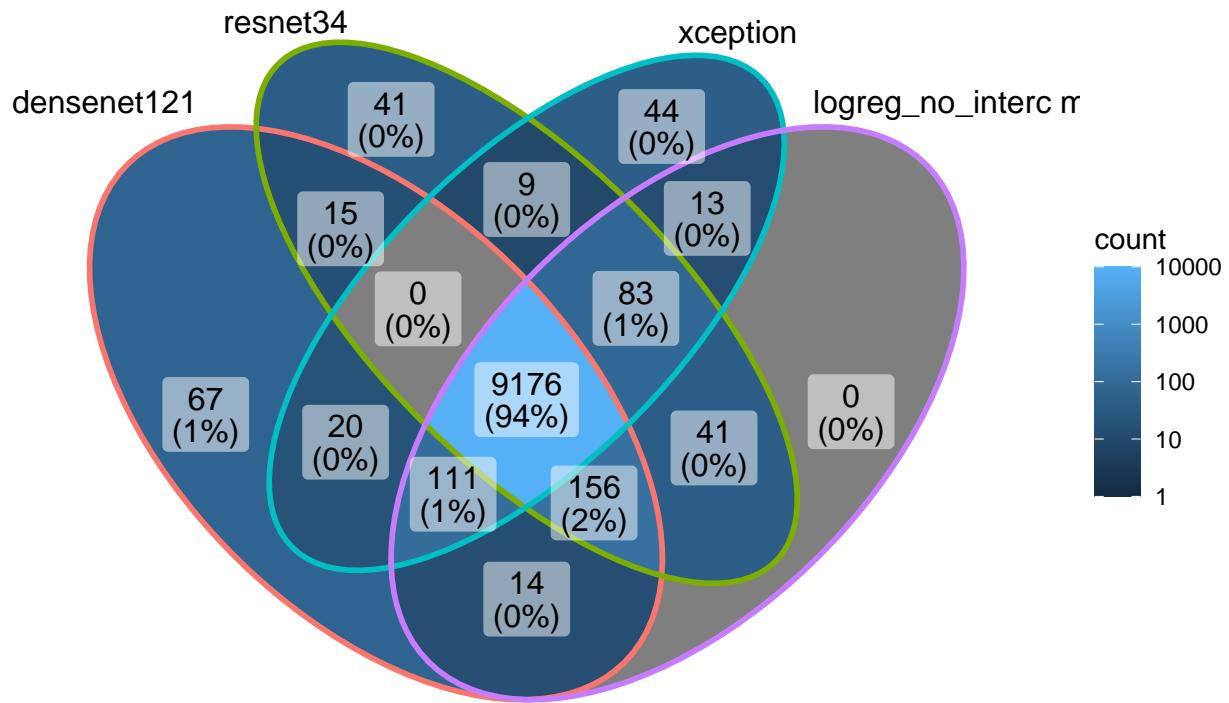
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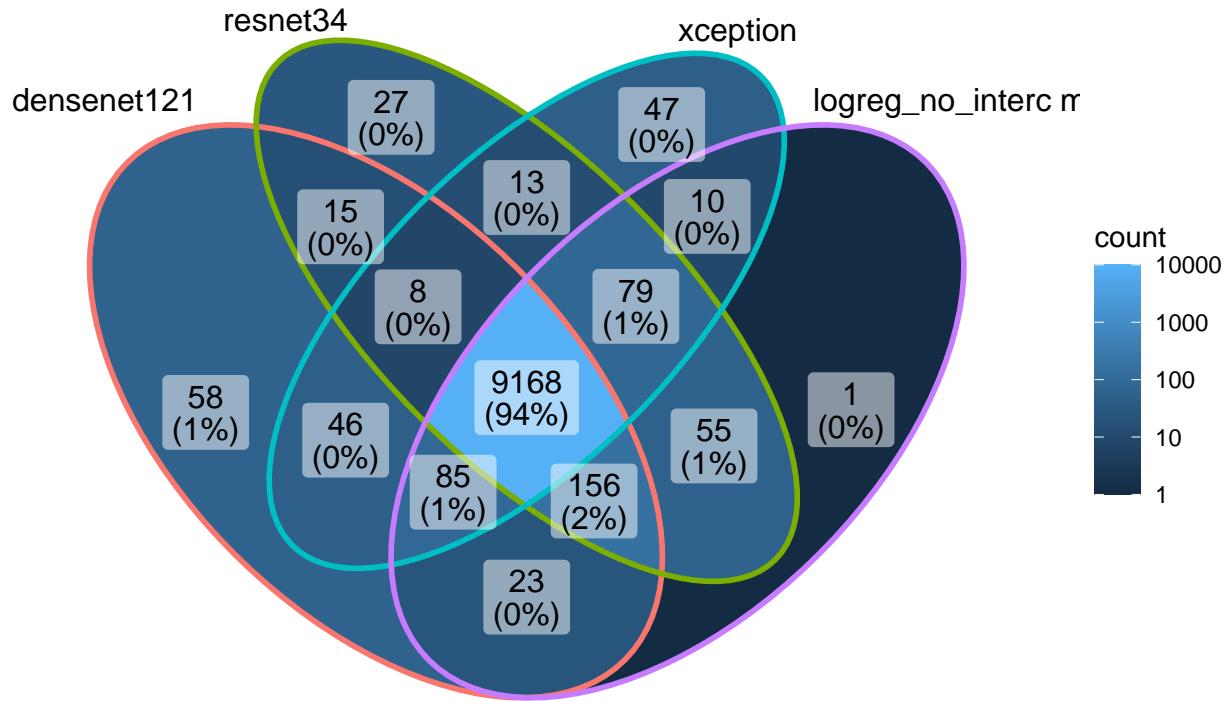


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tt – replication 18

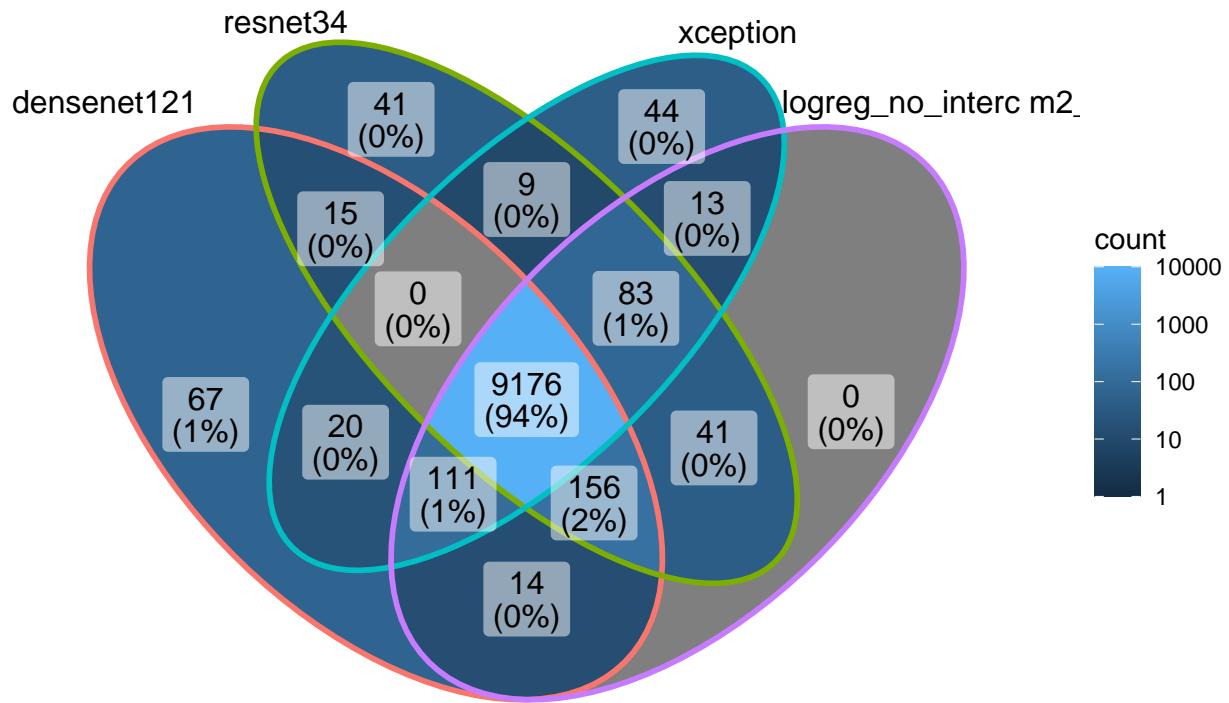


vt – replication 18



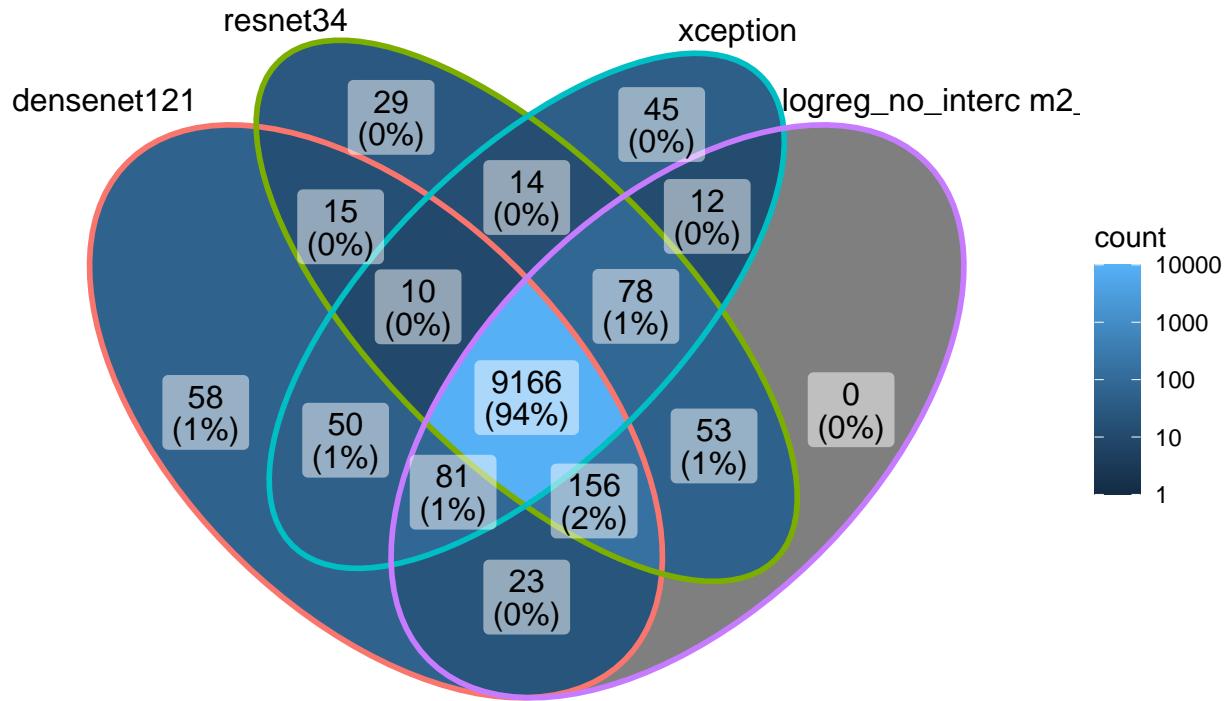
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tt – replication 18



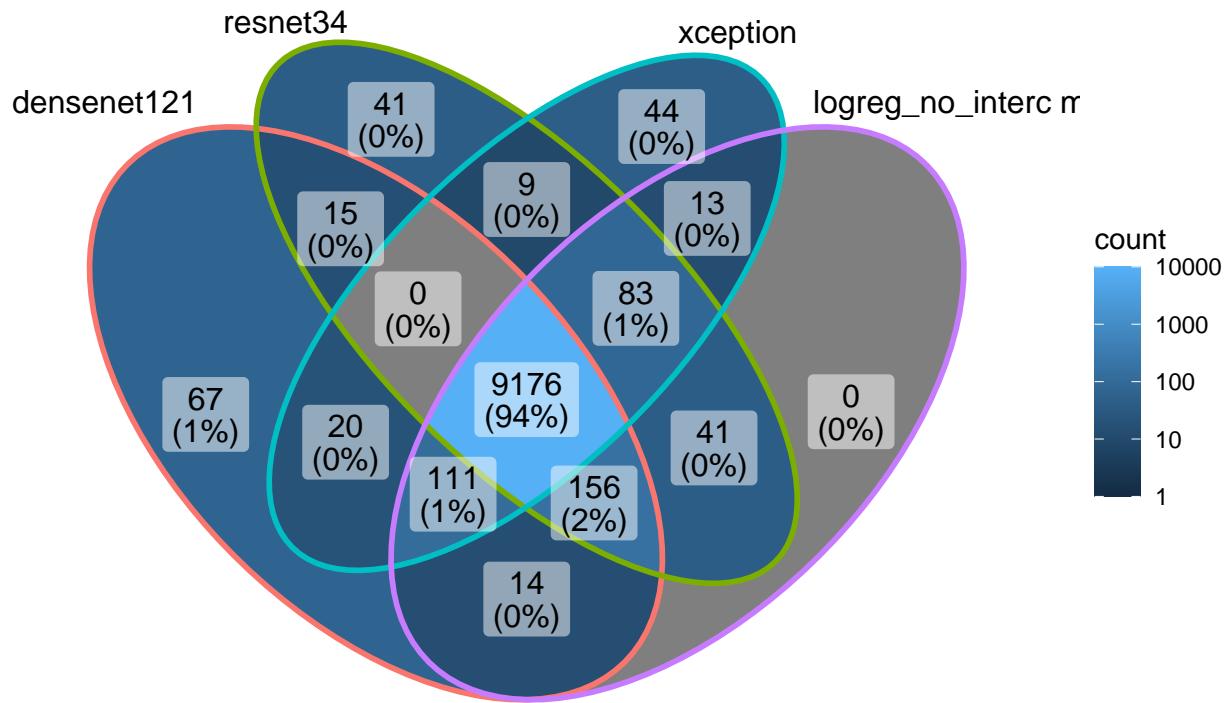
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vt – replication 18



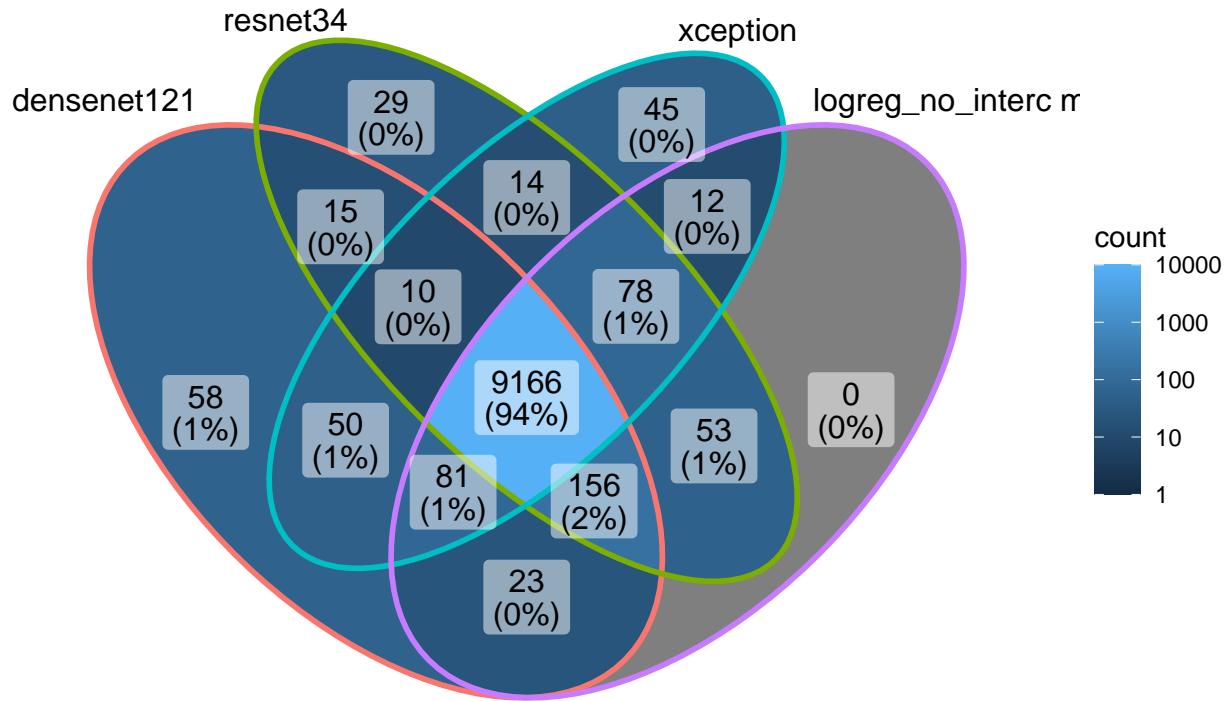
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tt – replication 18



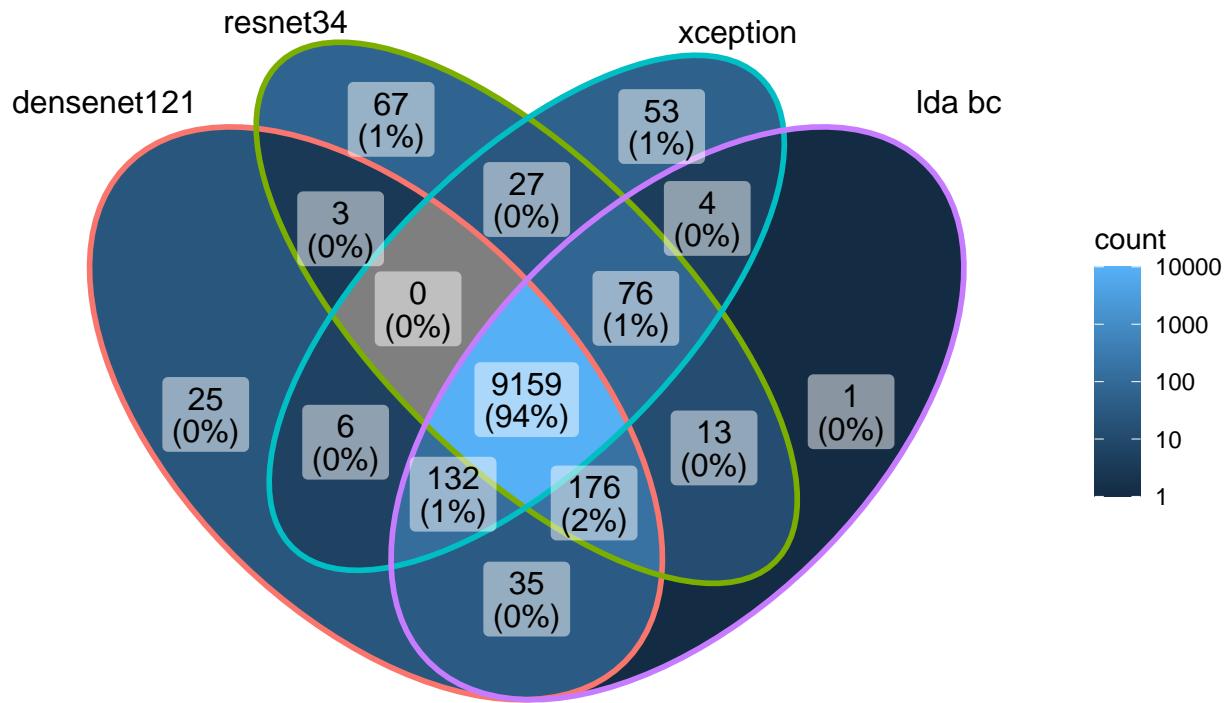
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vt – replication 18



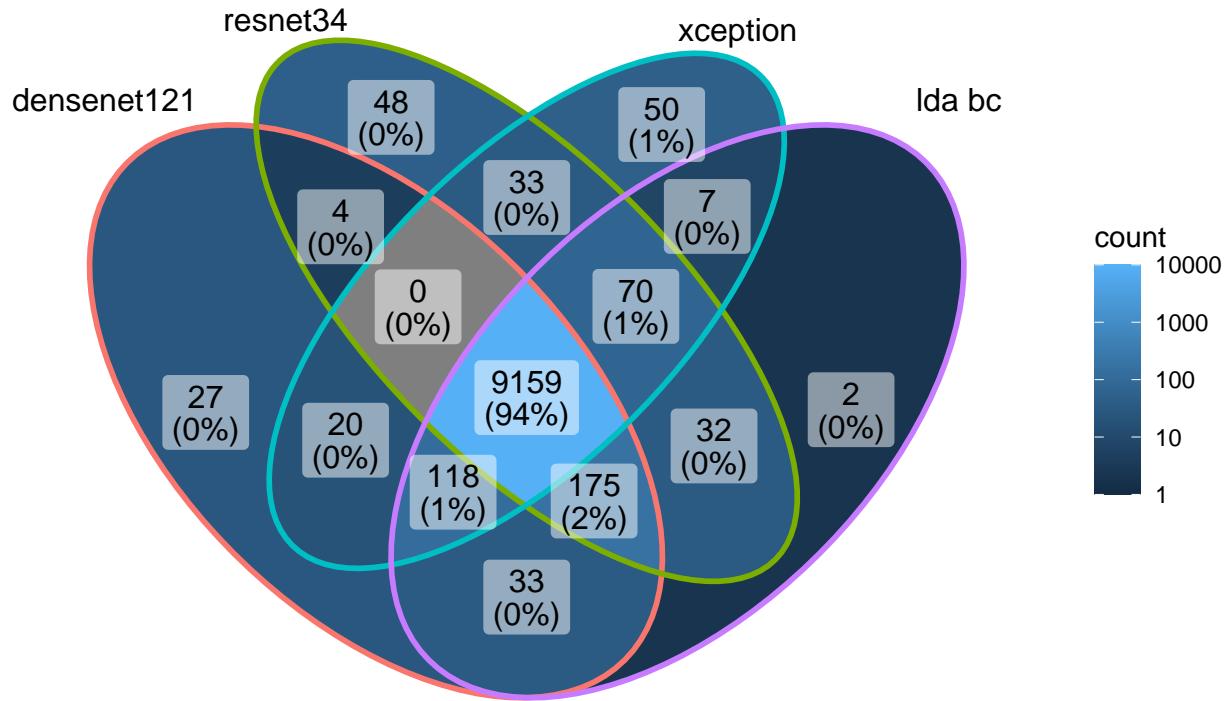
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tt – replication 19



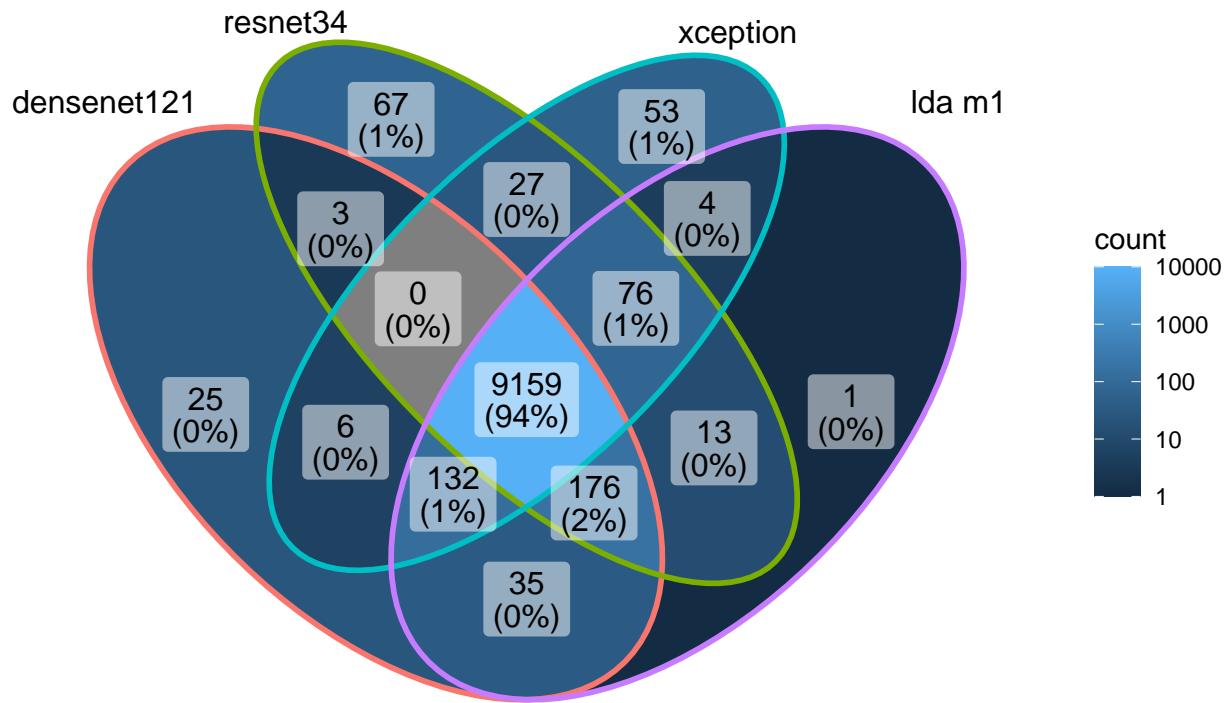
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vt – replication 19

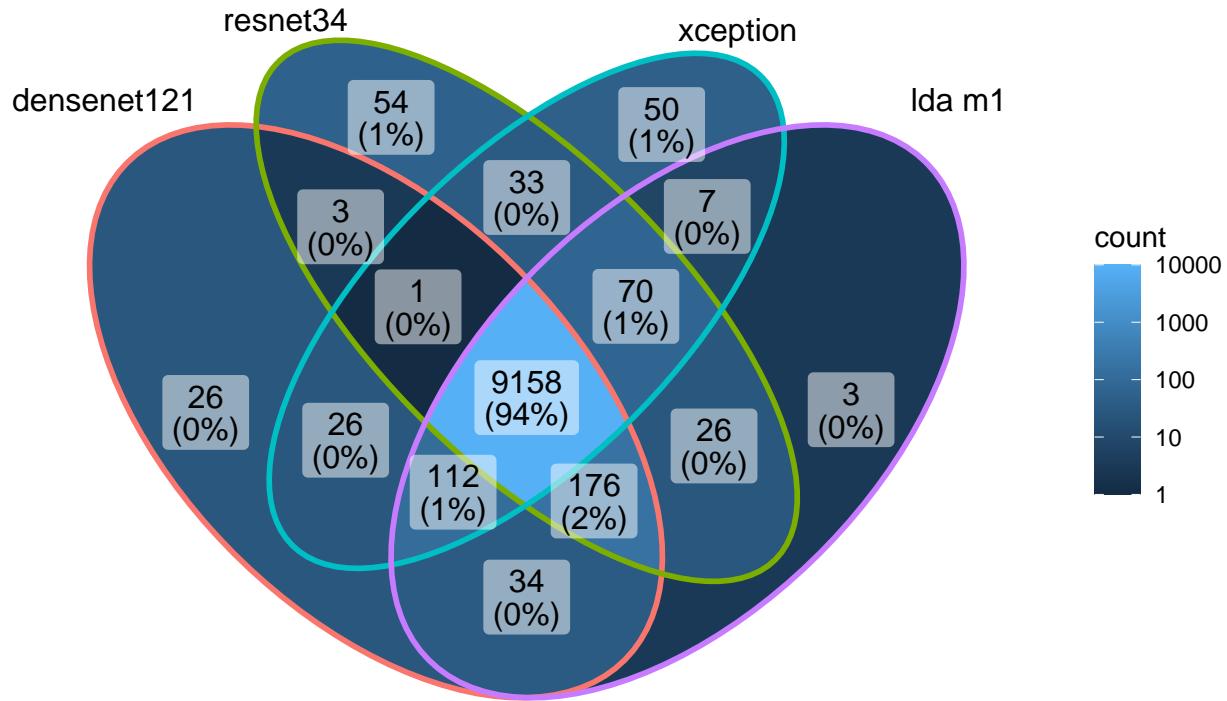


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tt – replication 19

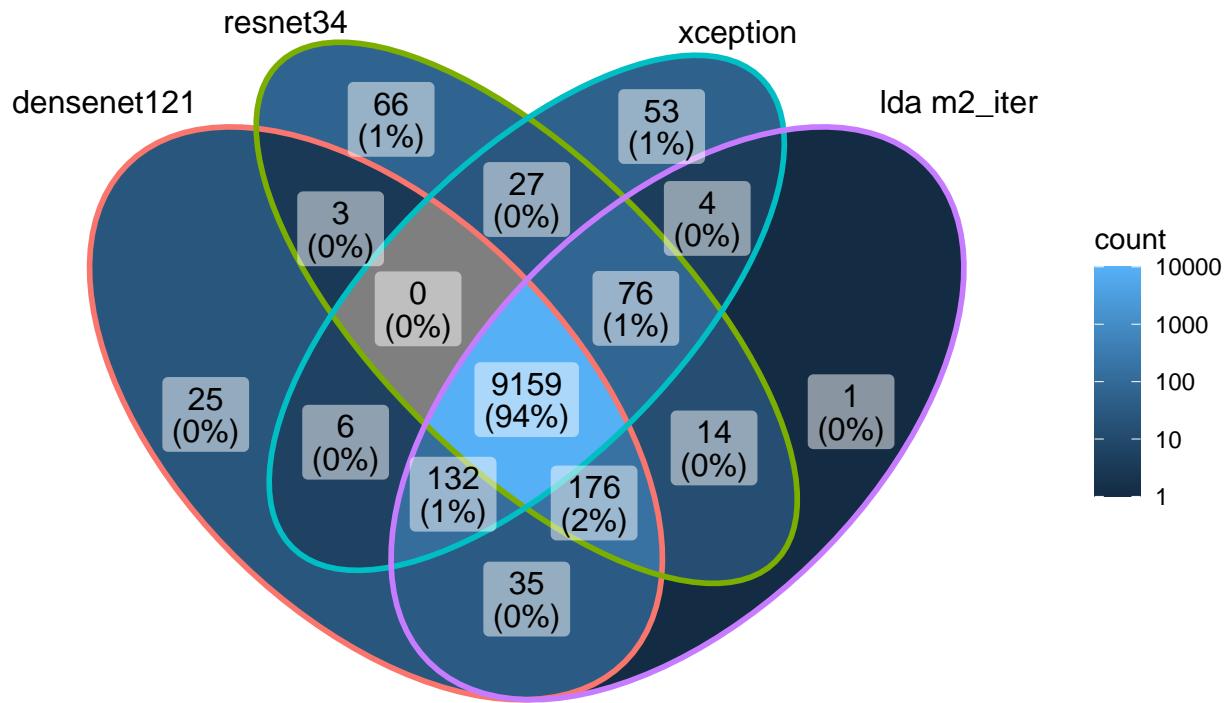


vt – replication 19

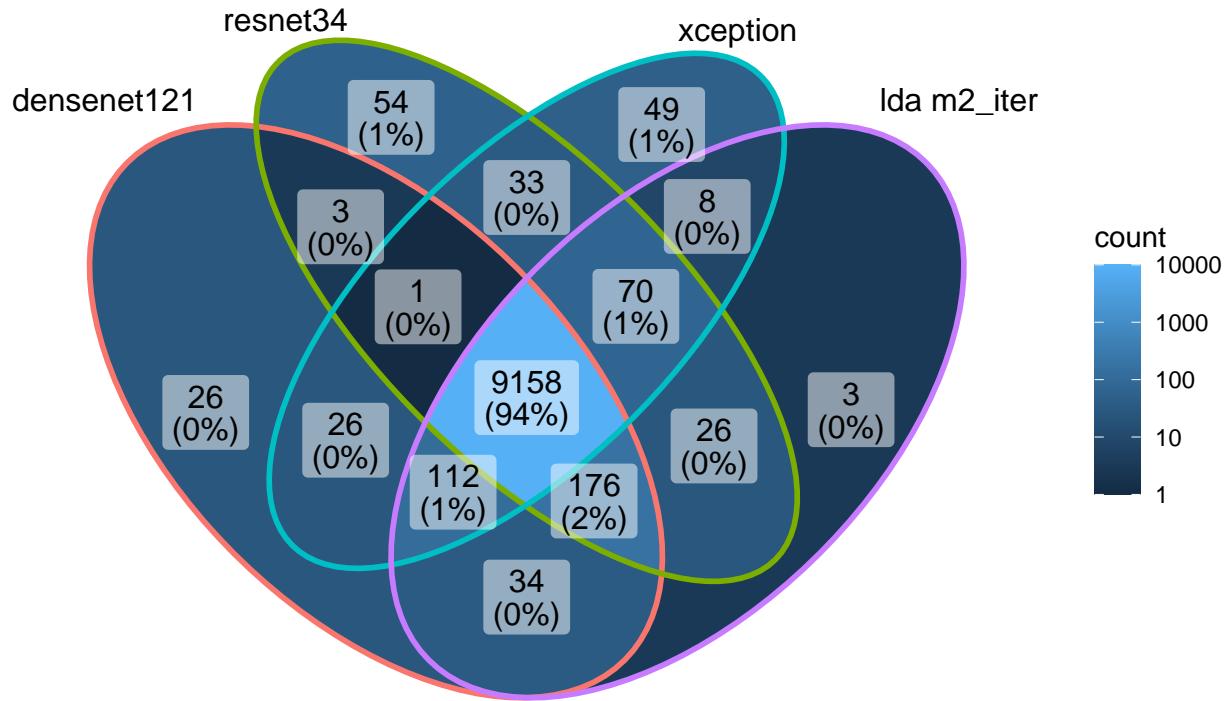


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tt – replication 19

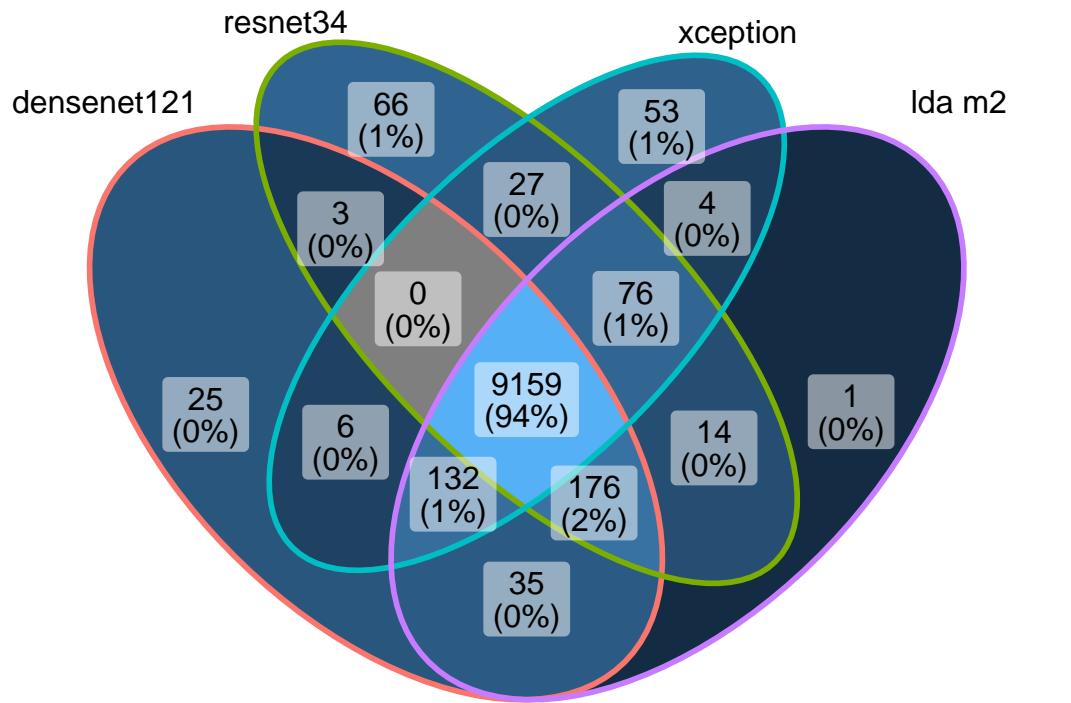


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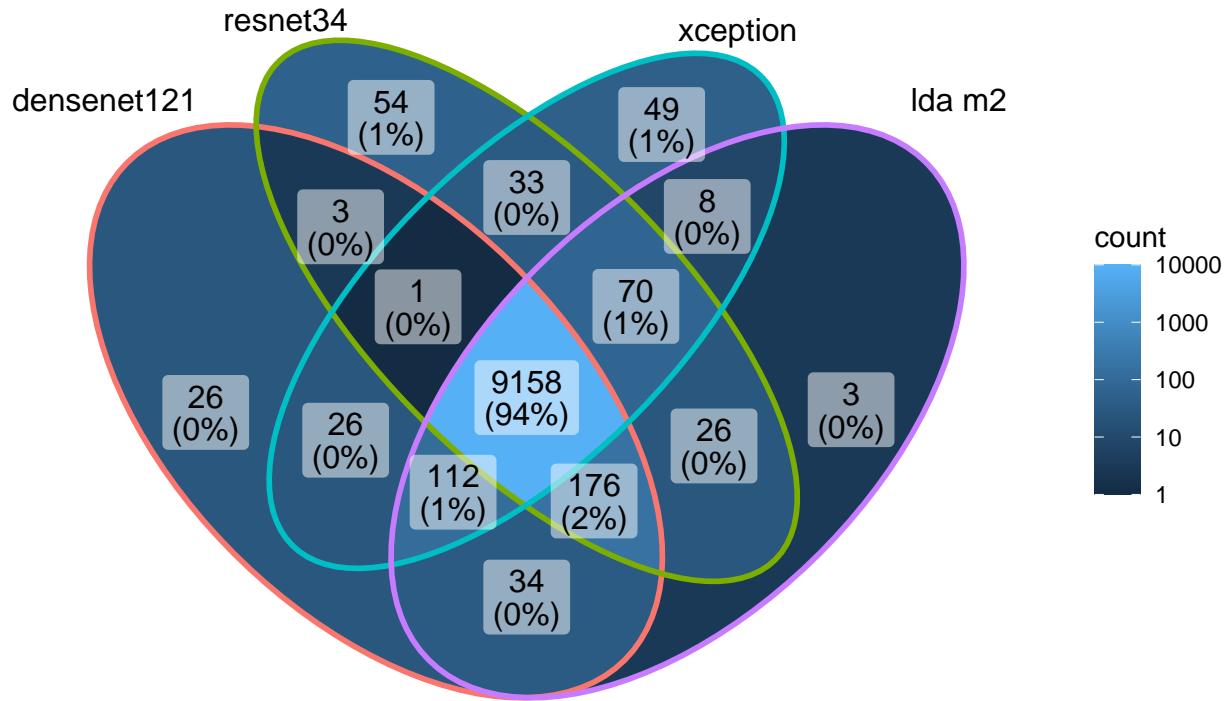


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tt – replication 19

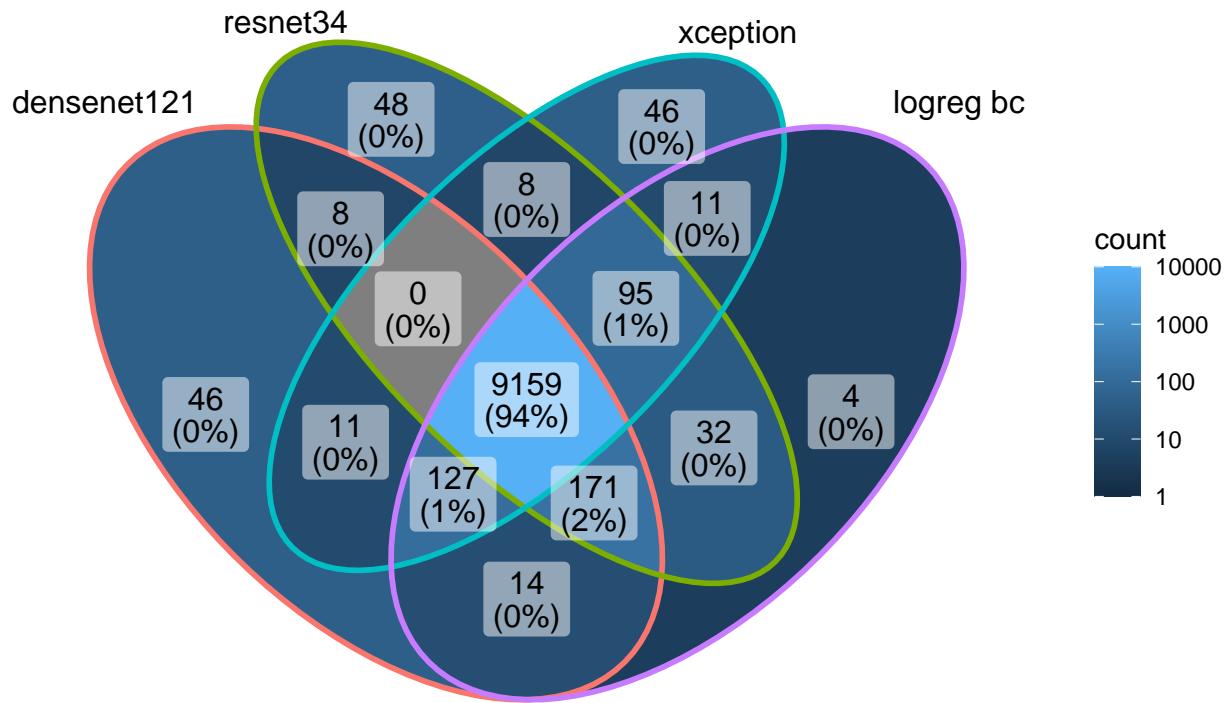


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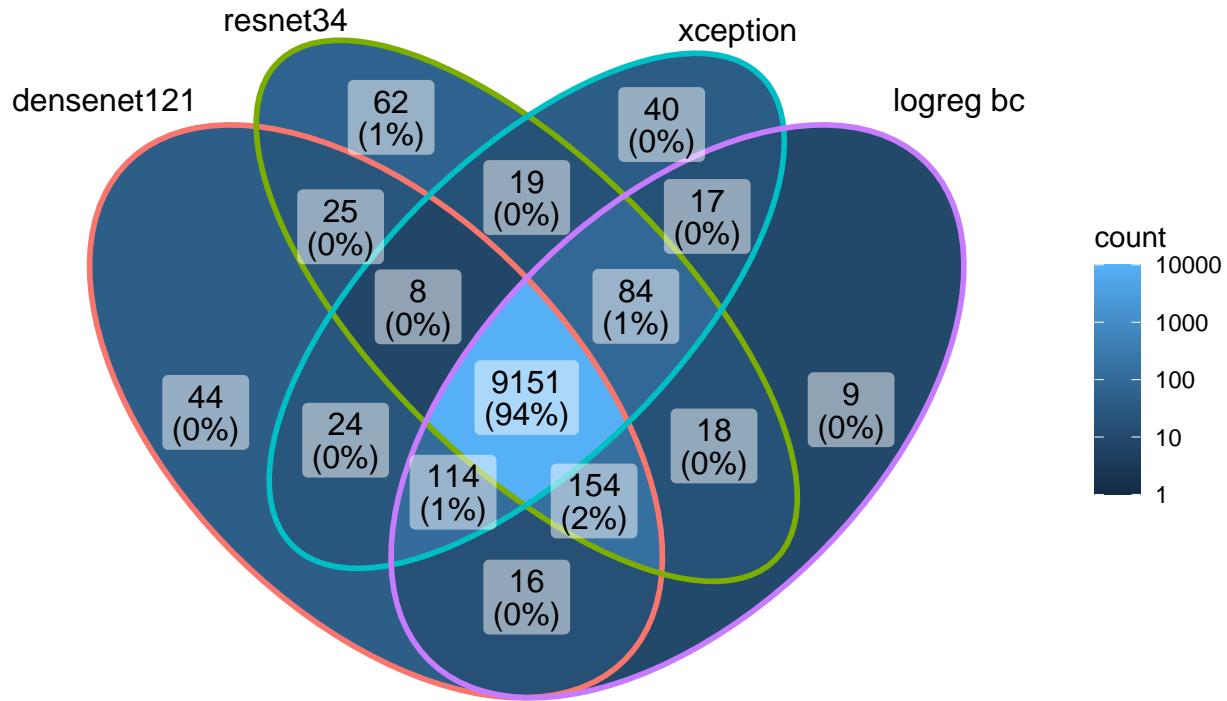


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tt – replication 19

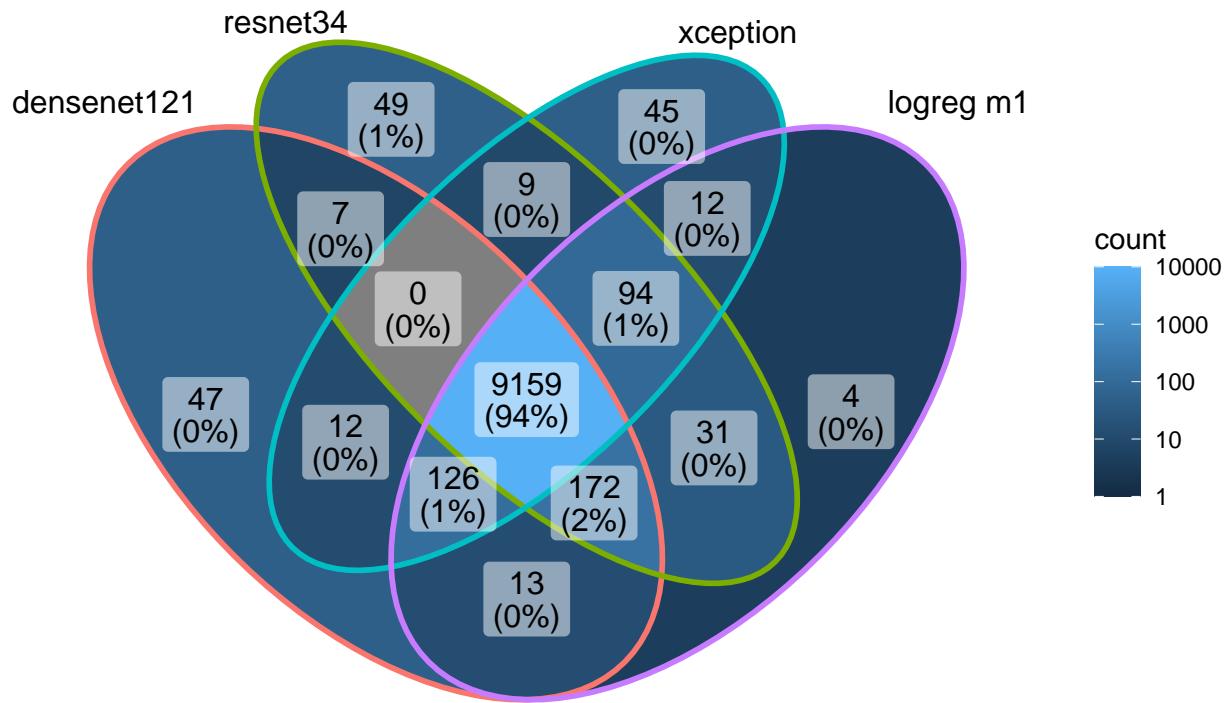


vt – replication 19

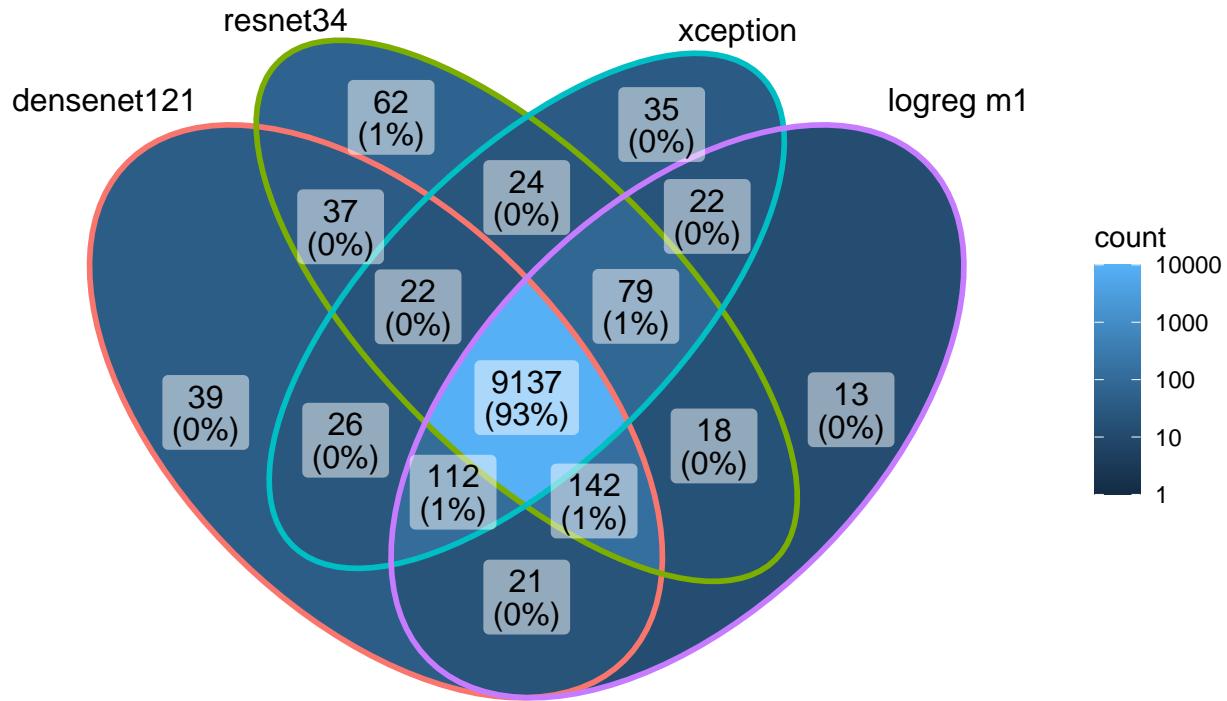


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tt – replication 19

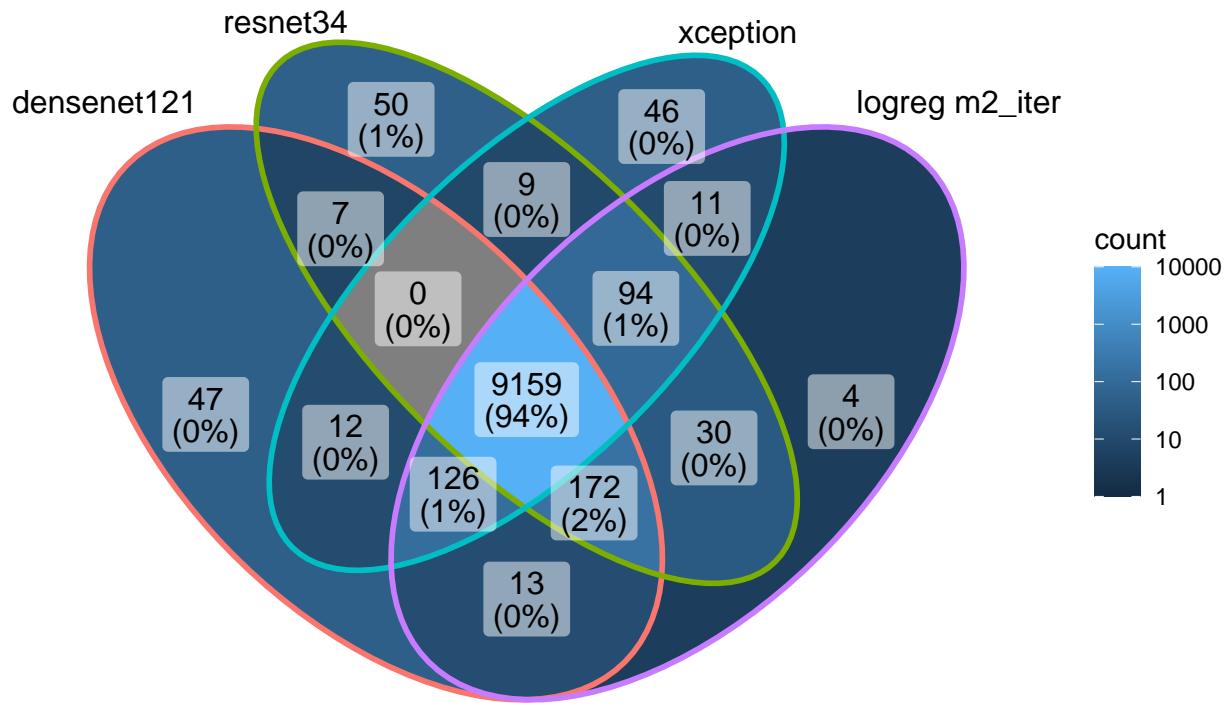


vt – replication 19

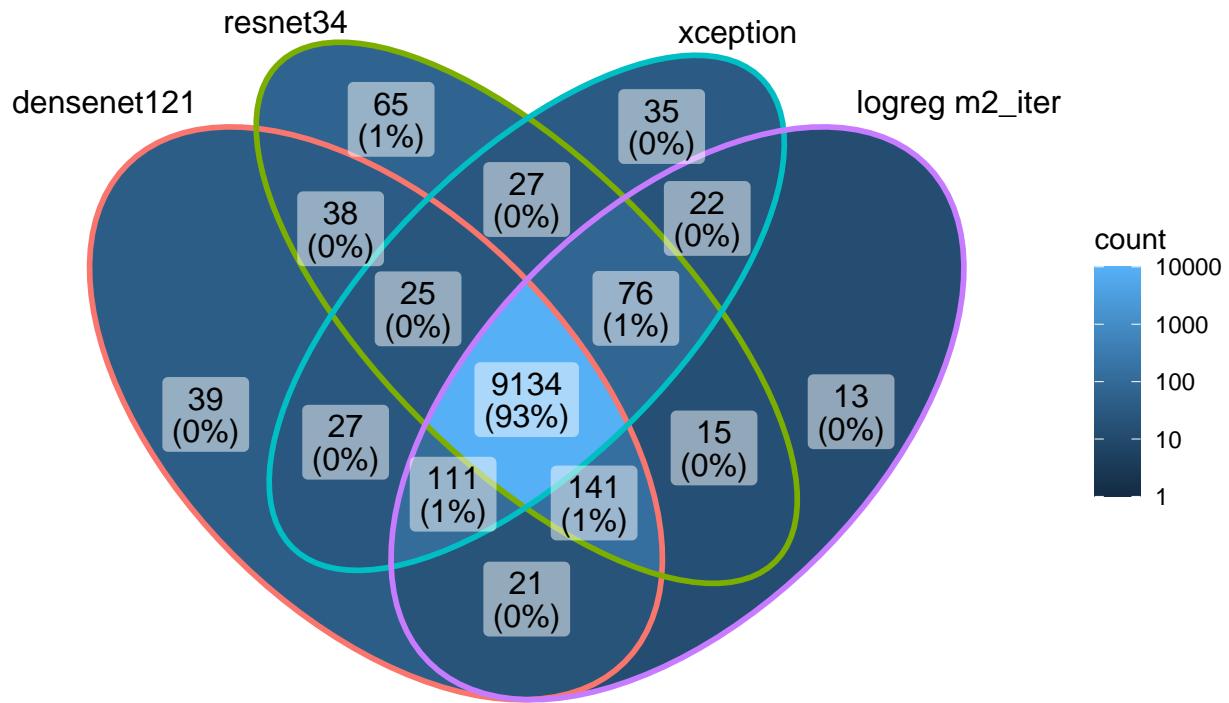


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tt – replication 19

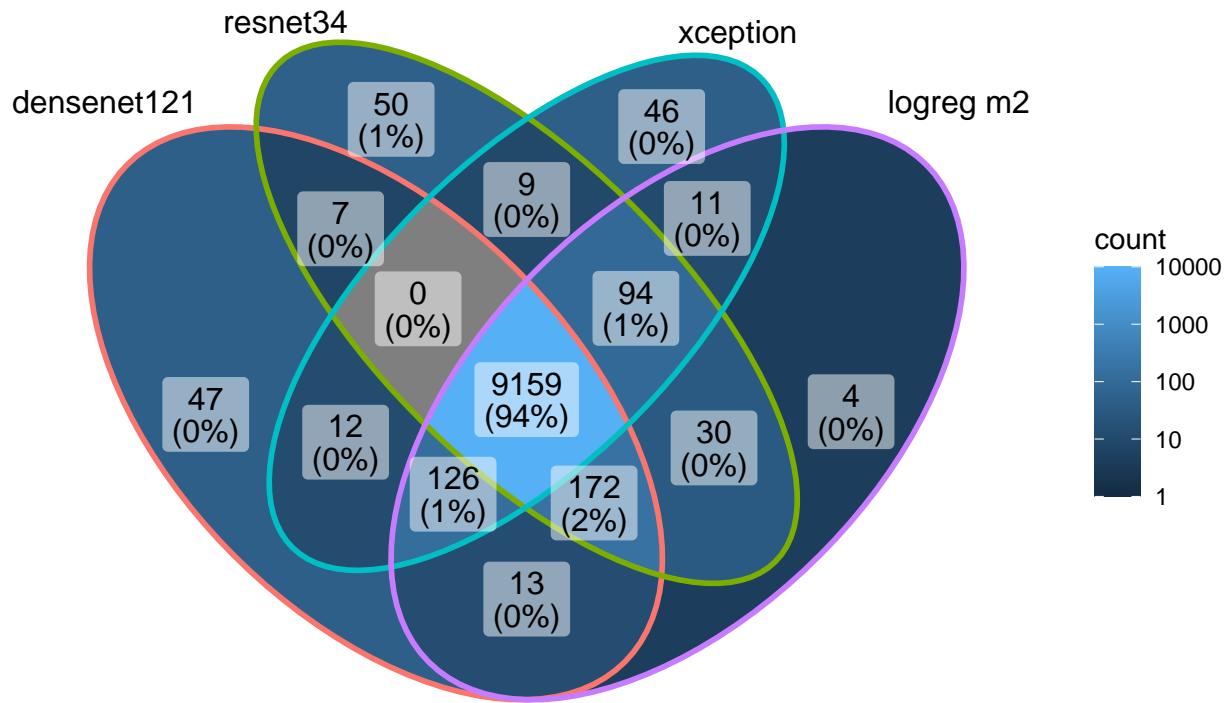


vt – replication 19

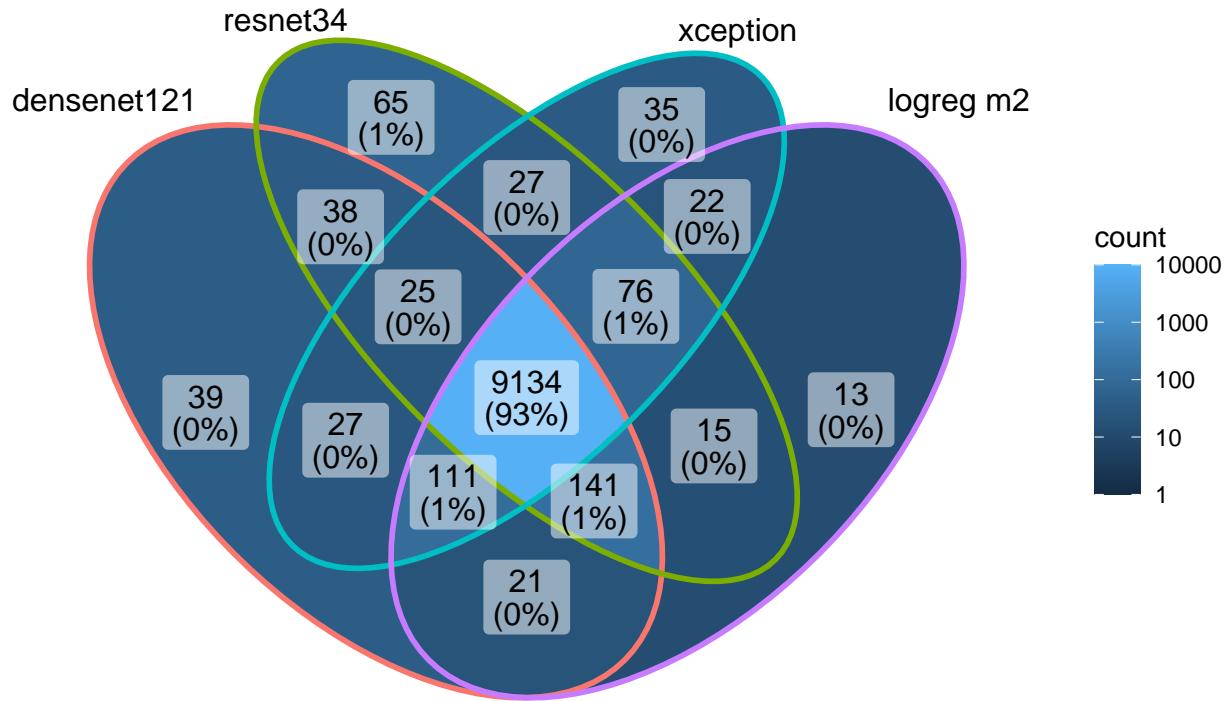


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tt – replication 19

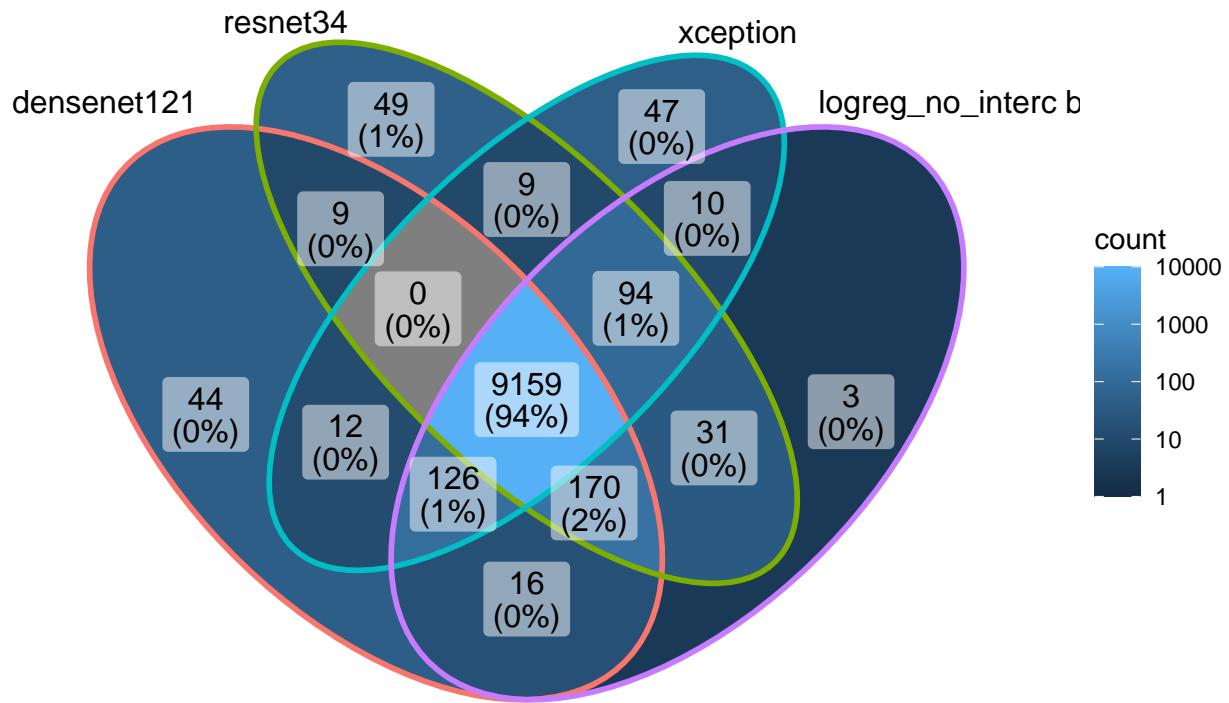


vt – replication 19



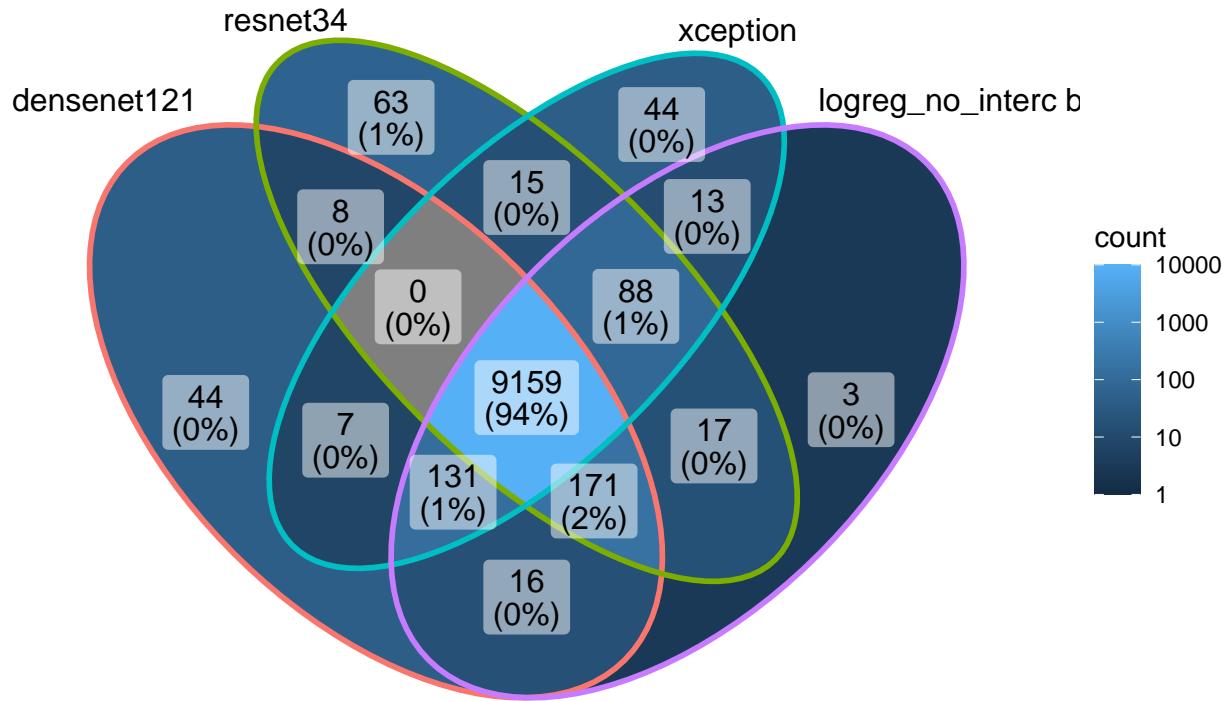
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tt – replication 19



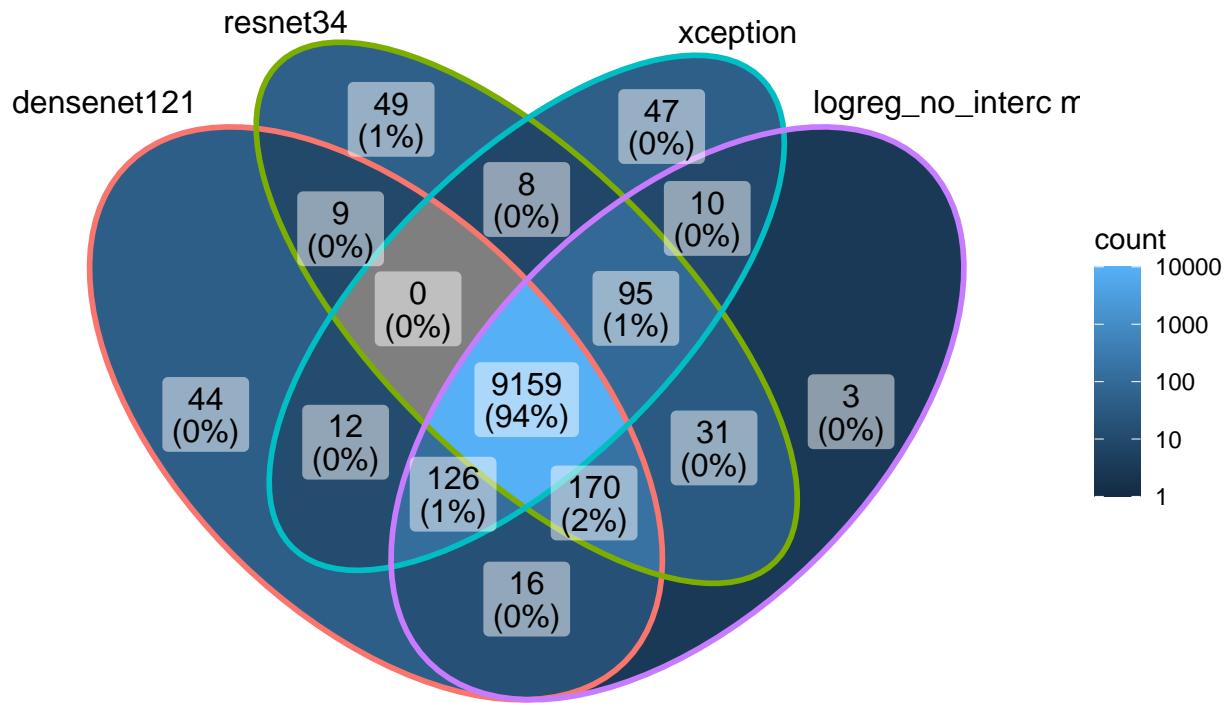
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vt – replication 19

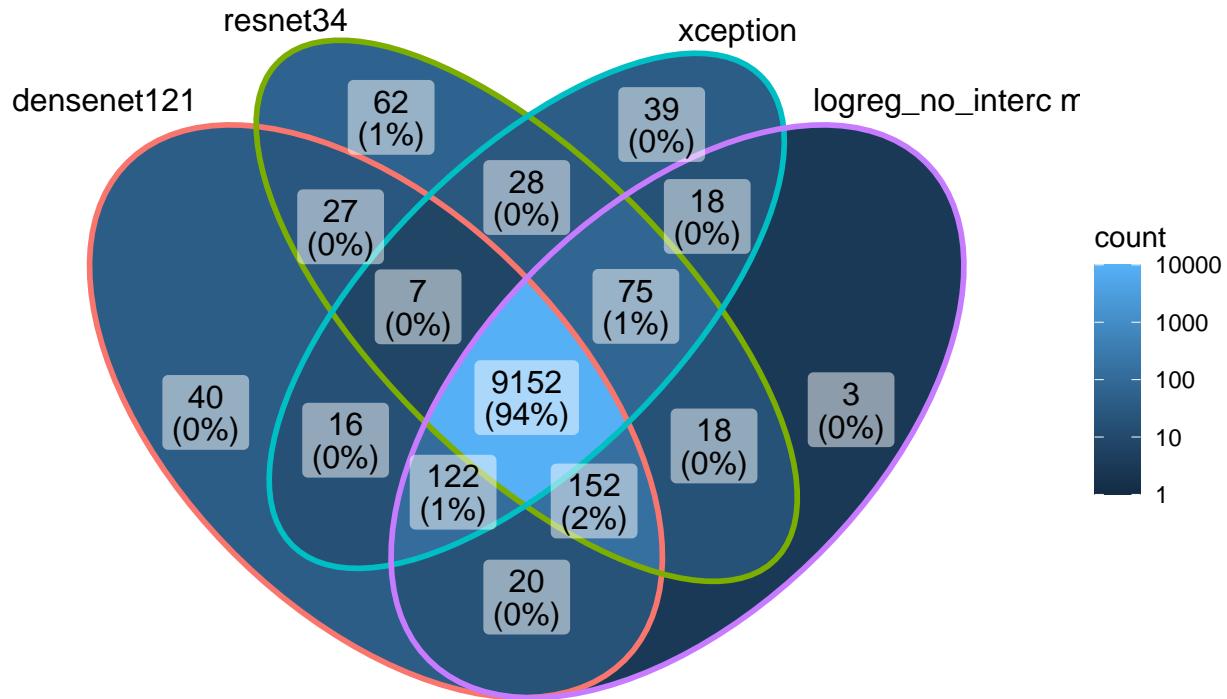


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tt – replication 19

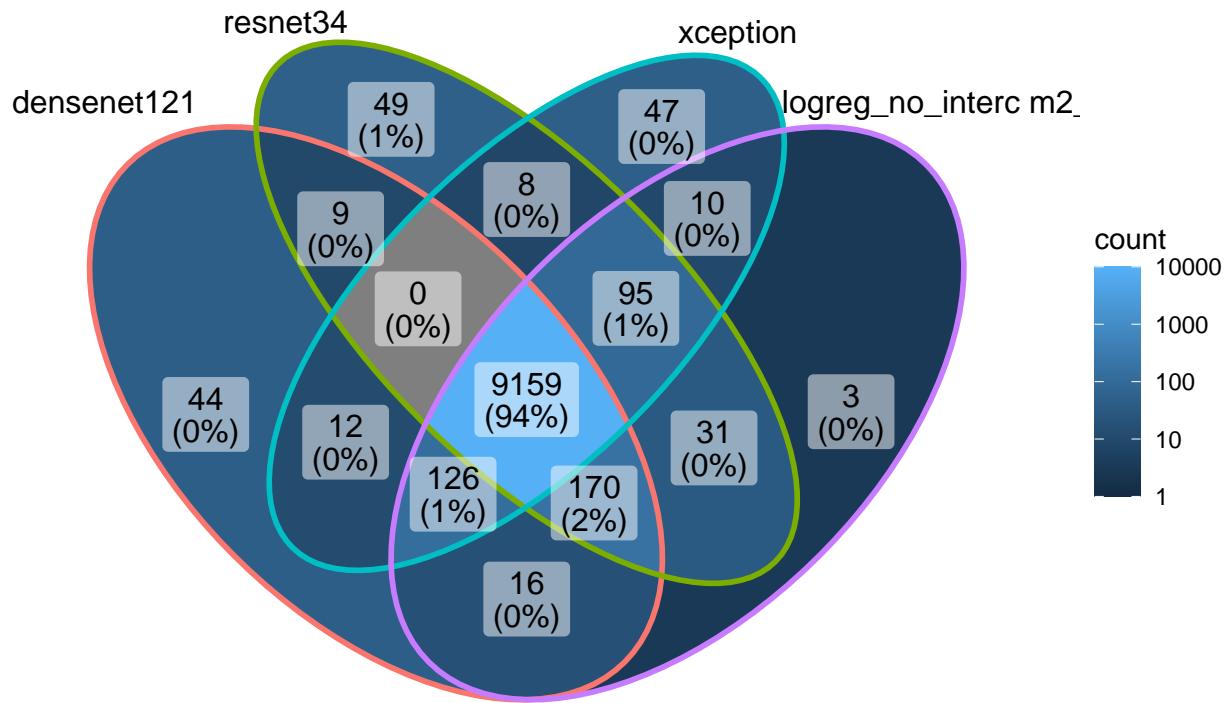


vt – replication 19

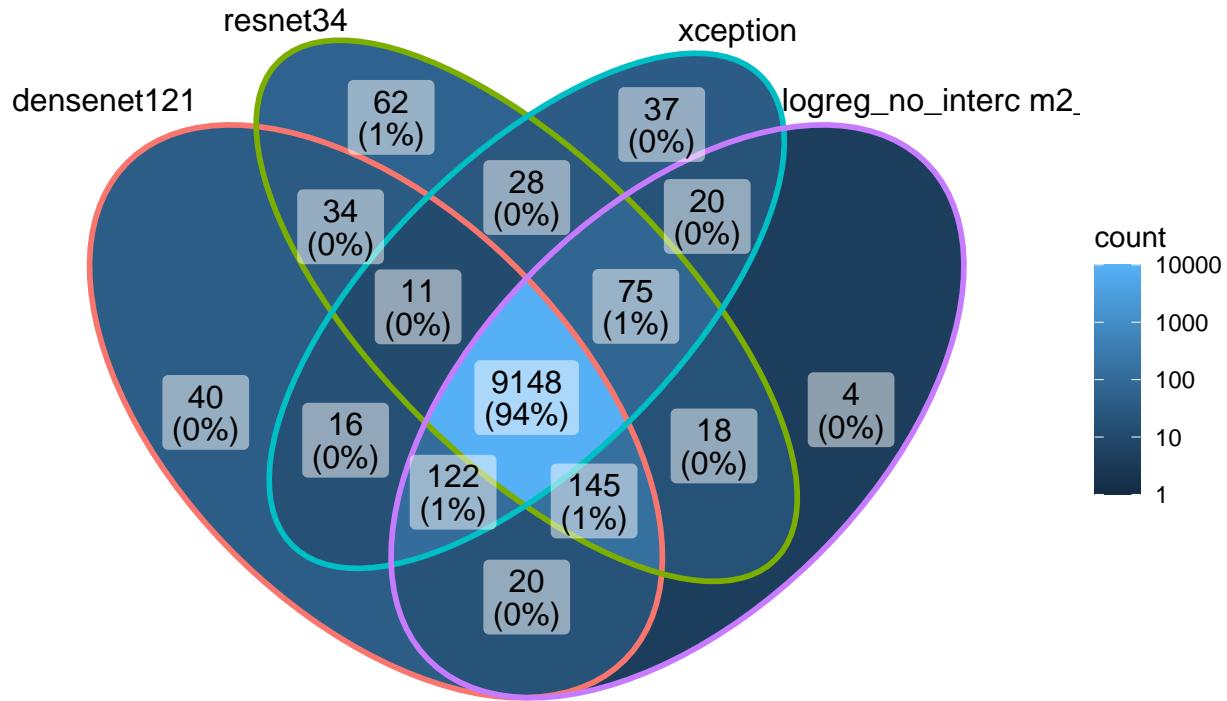


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tt – replication 19

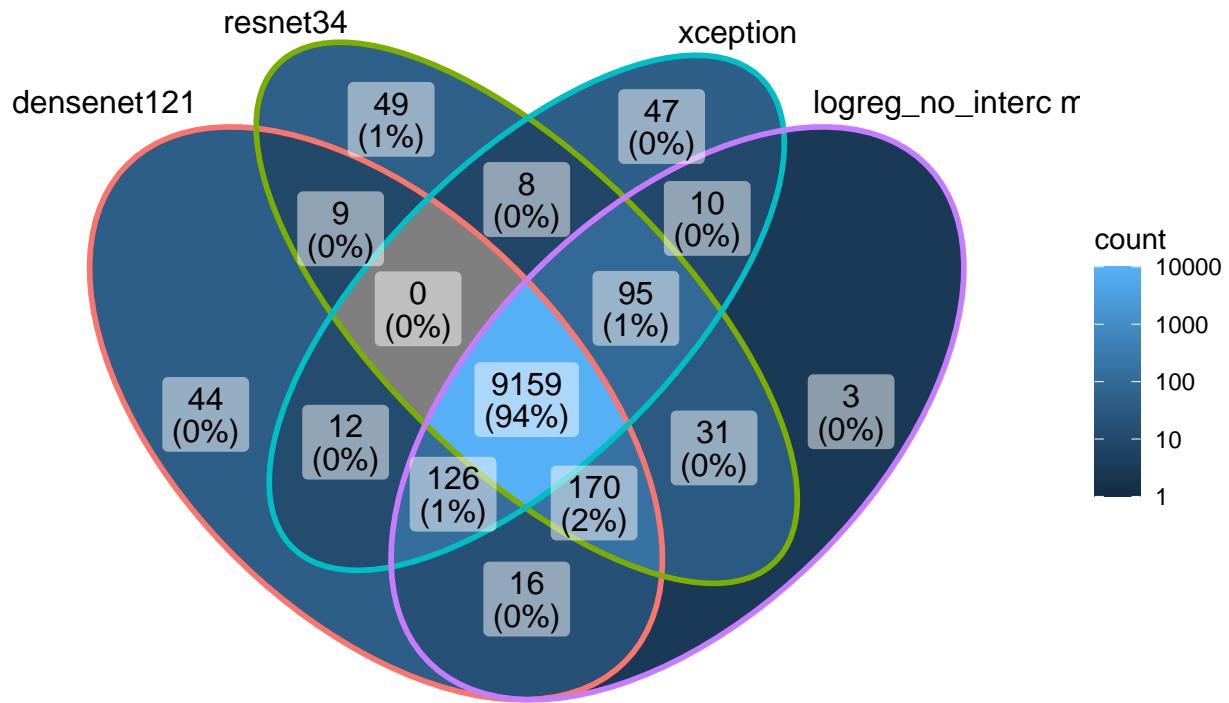


vt – replication 19

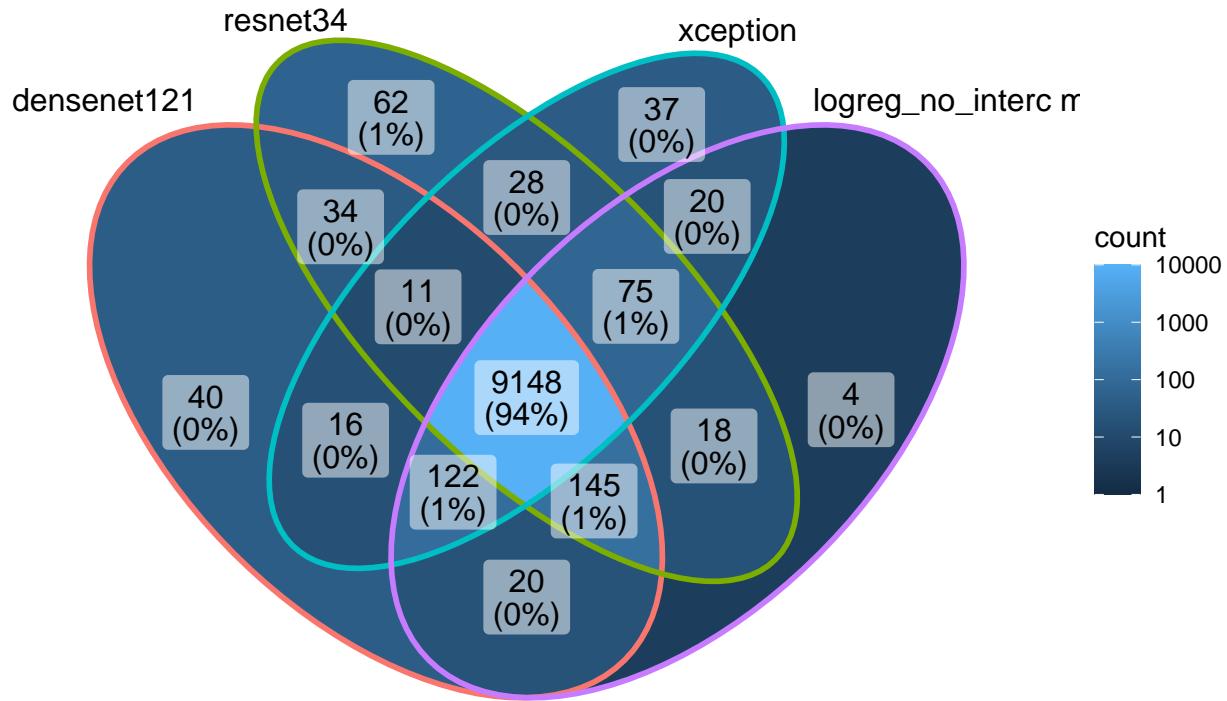


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tt – replication 19

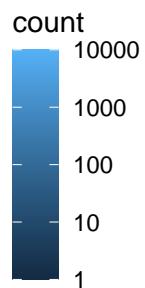
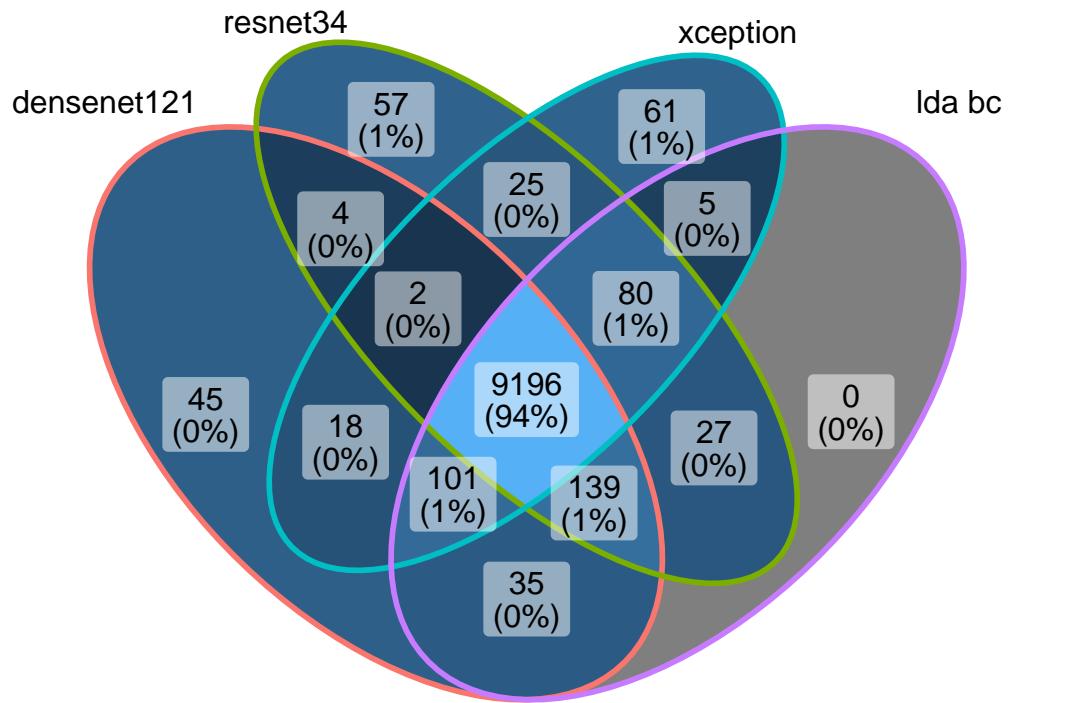


vt – replication 19

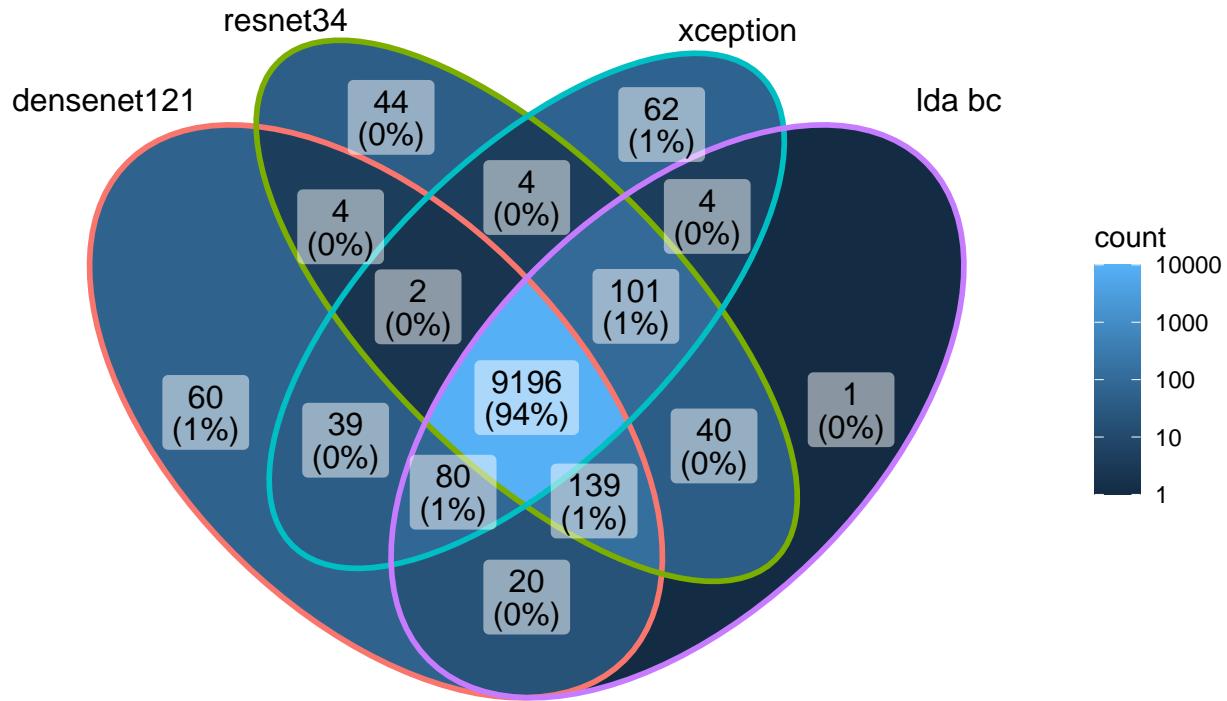


Warning: Transformation introduced infinite values in discrete y-axis

tt – replication 20

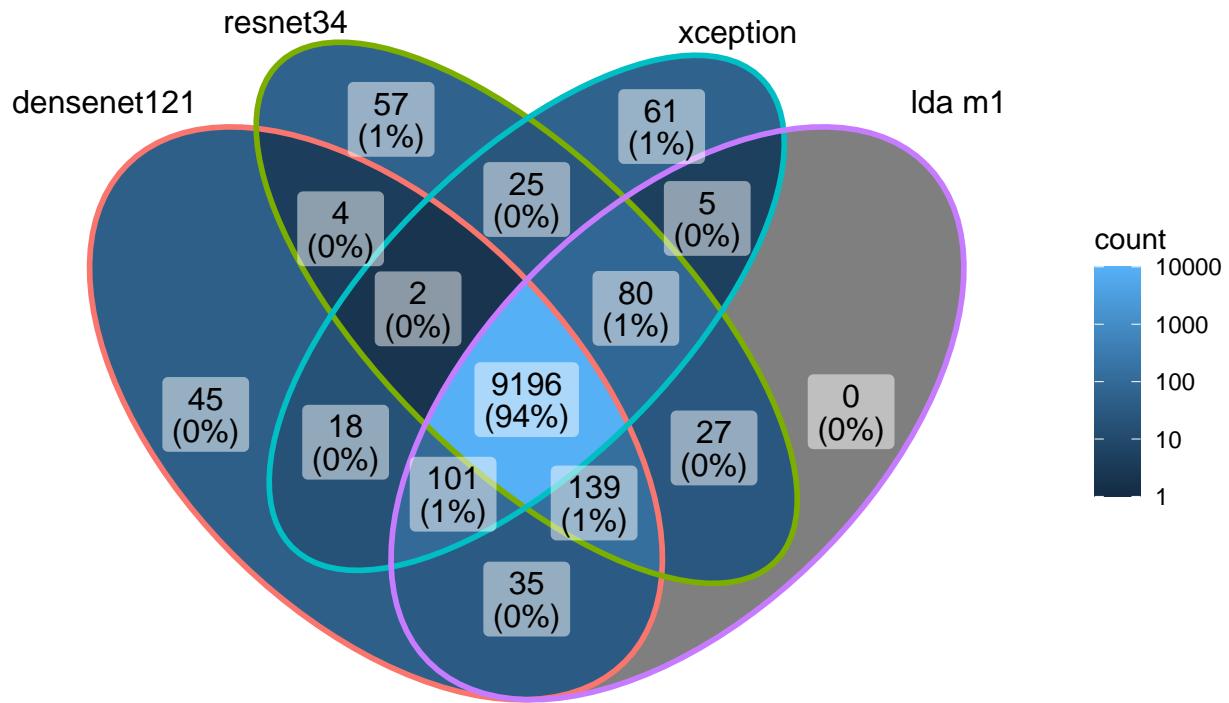


vt – replication 20



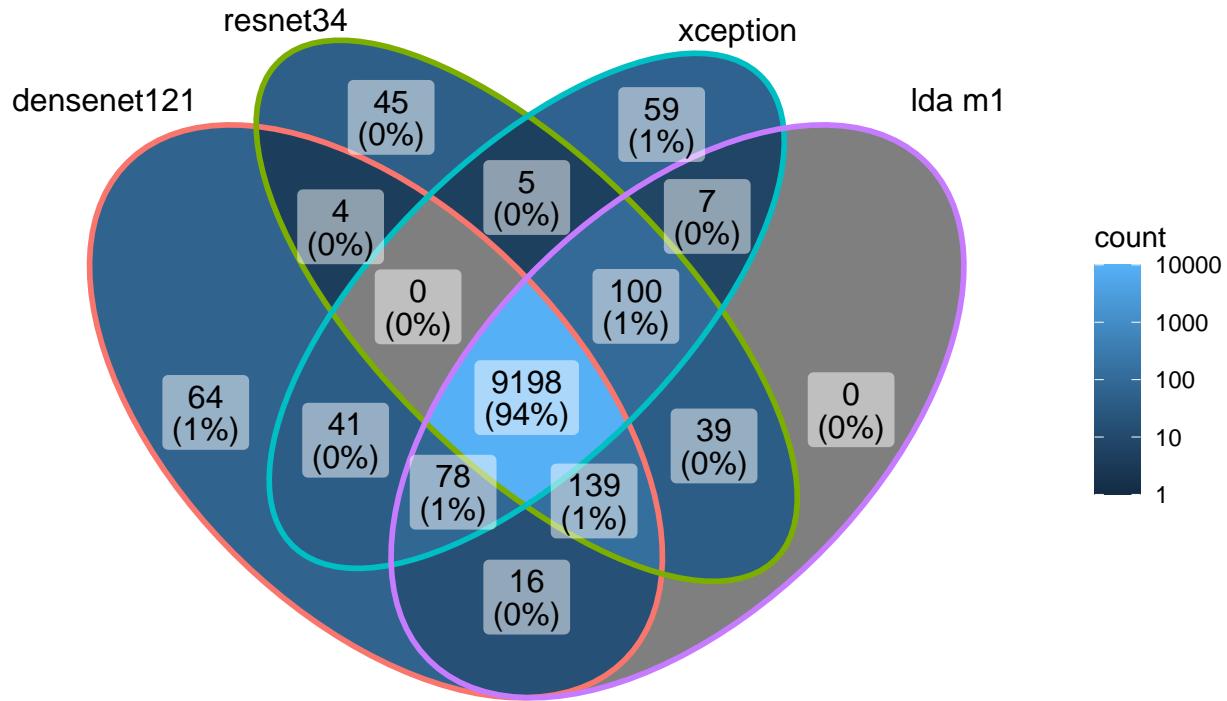
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tt – replication 20



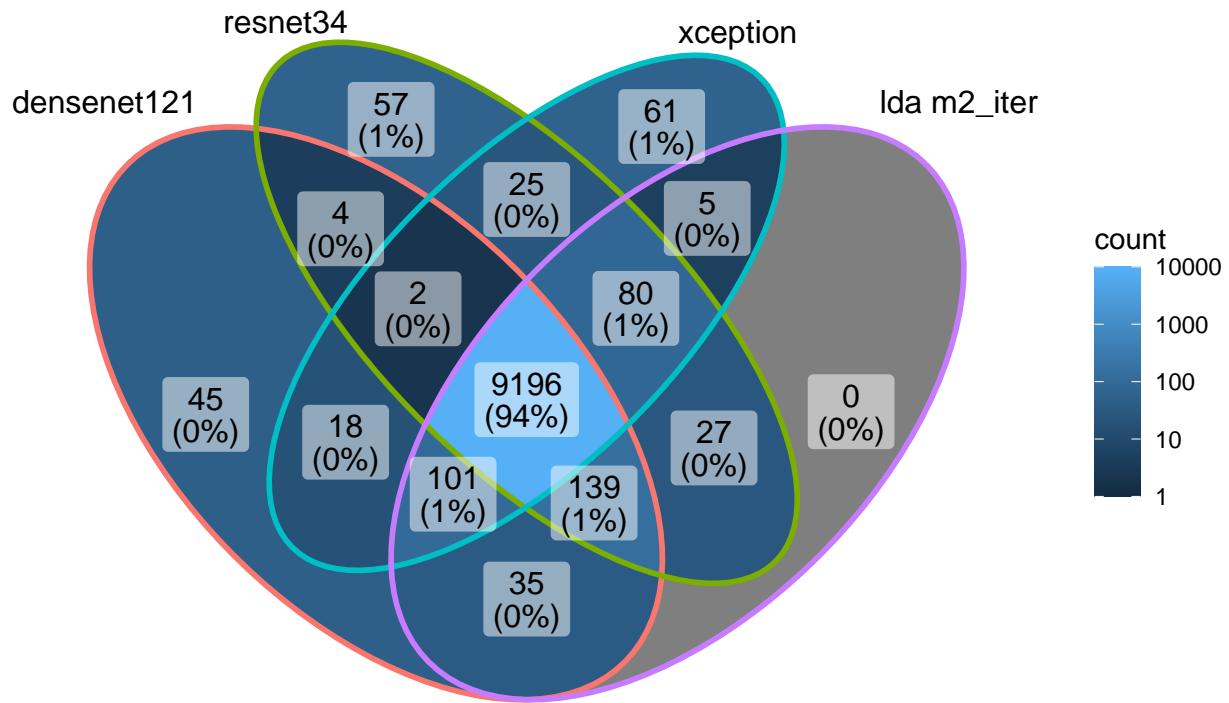
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vt – replication 20



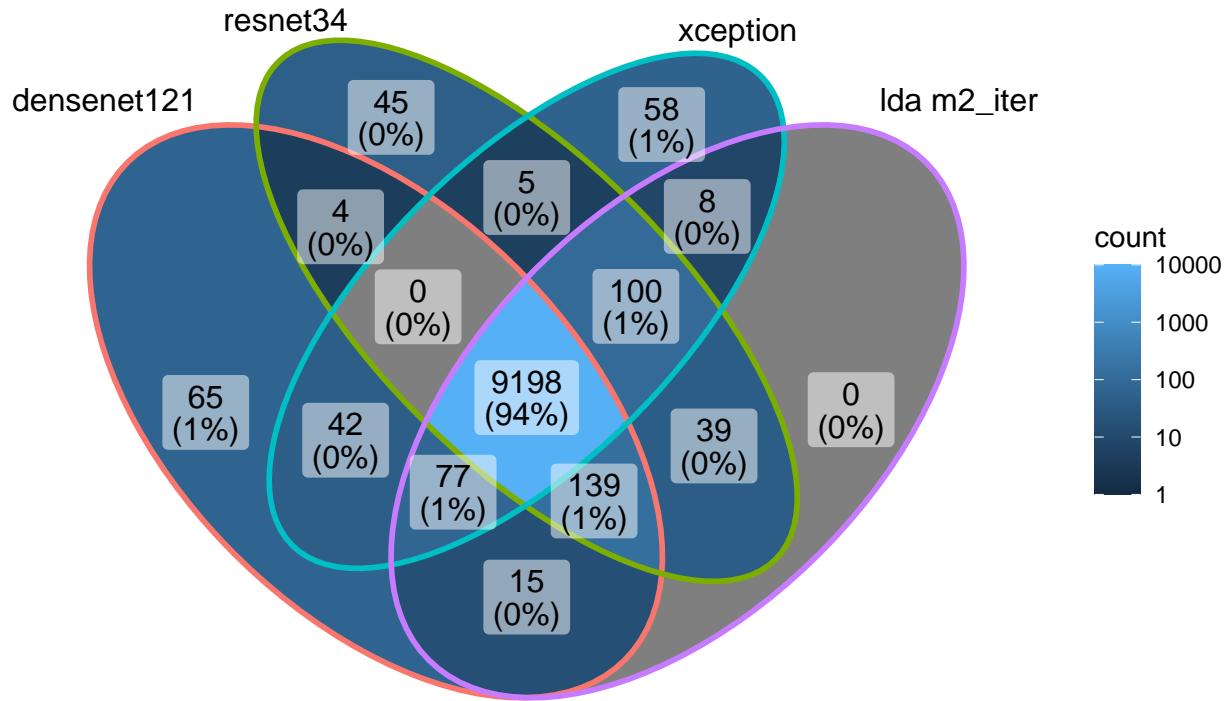
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tt – replication 20



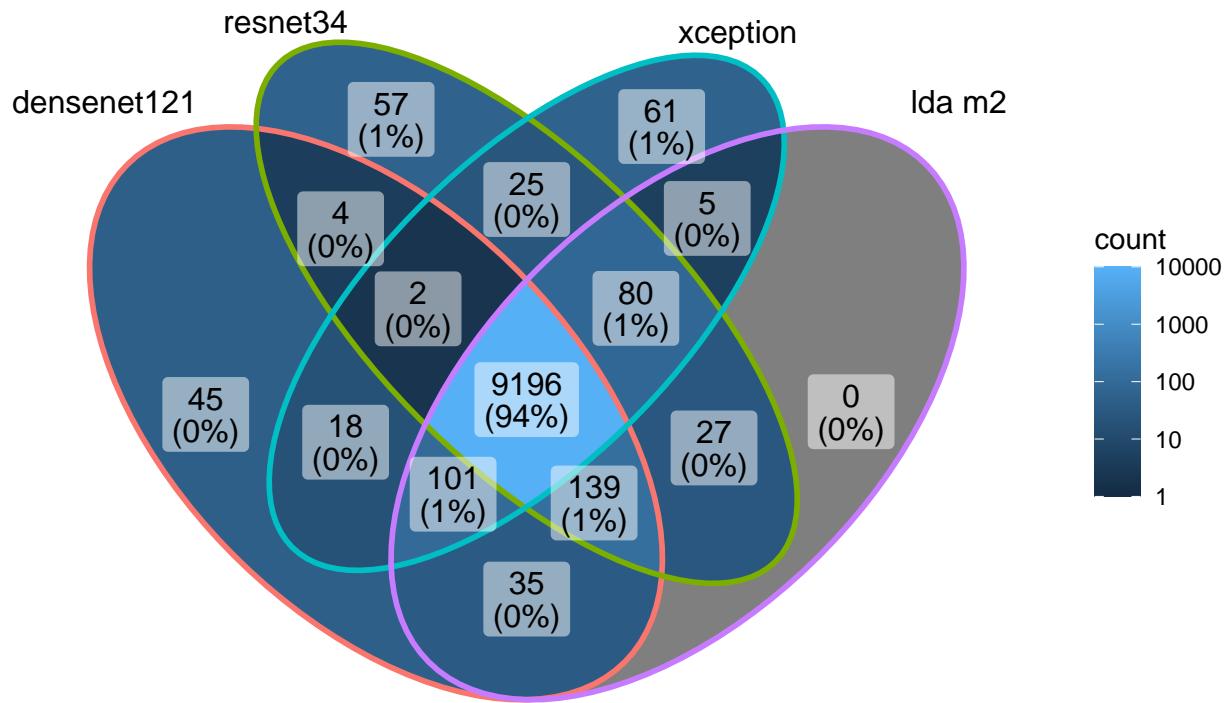
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vt – replication 20



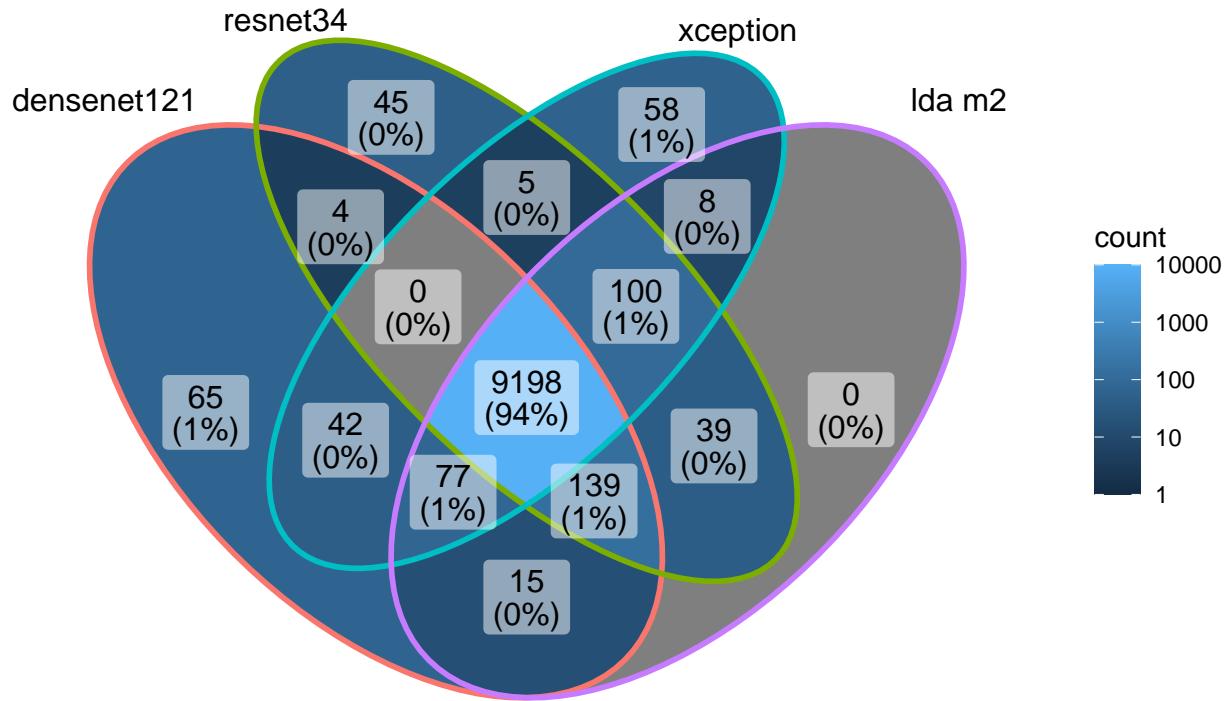
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tt – replication 20



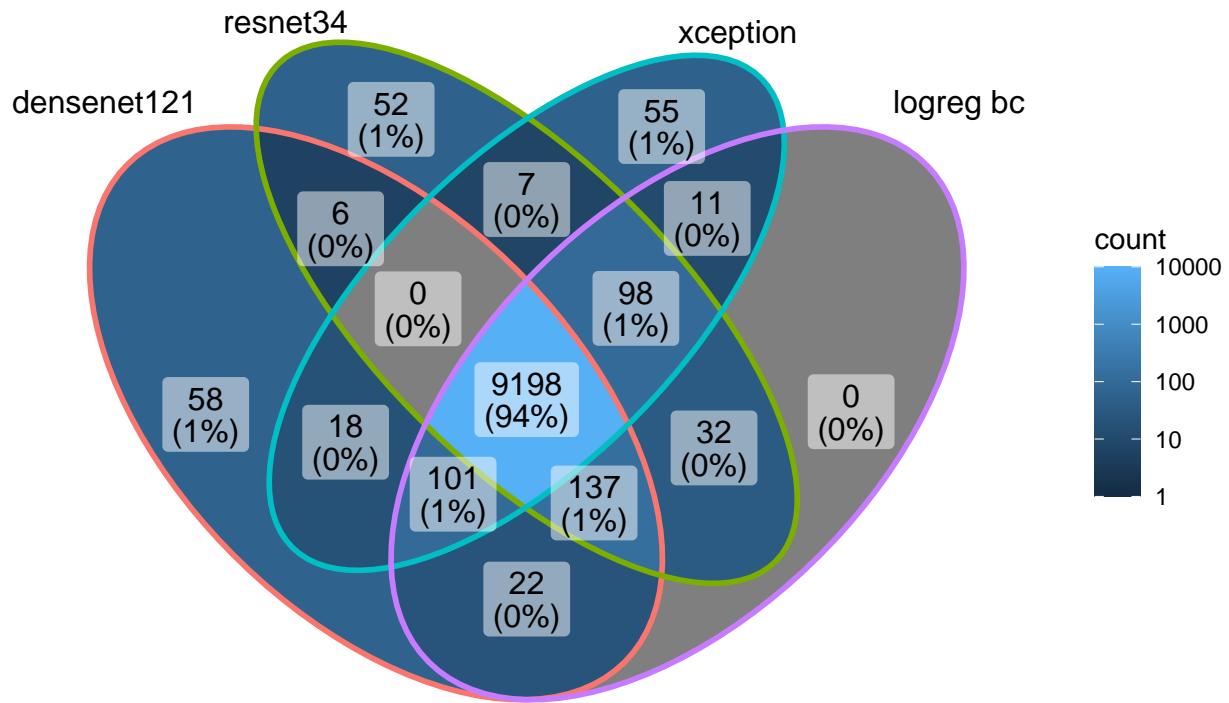
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vt – replication 20

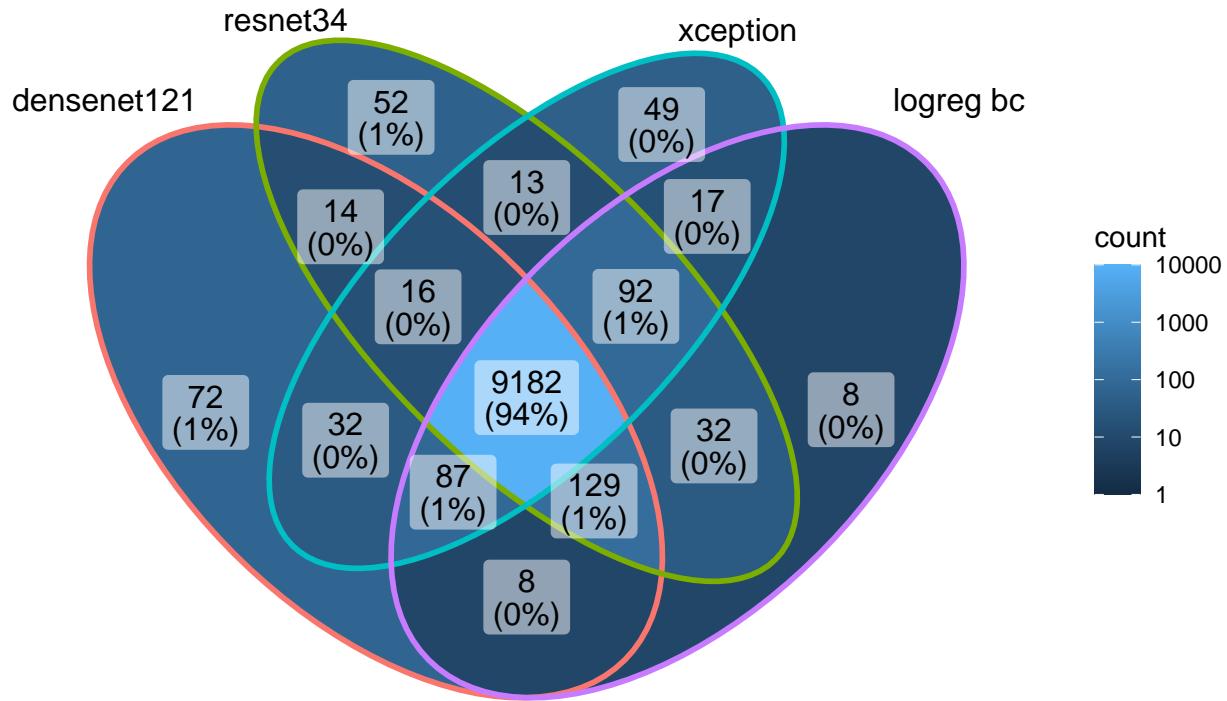


Warning: Transformation introduced infinite values in discrete y-axis

tt – replication 20

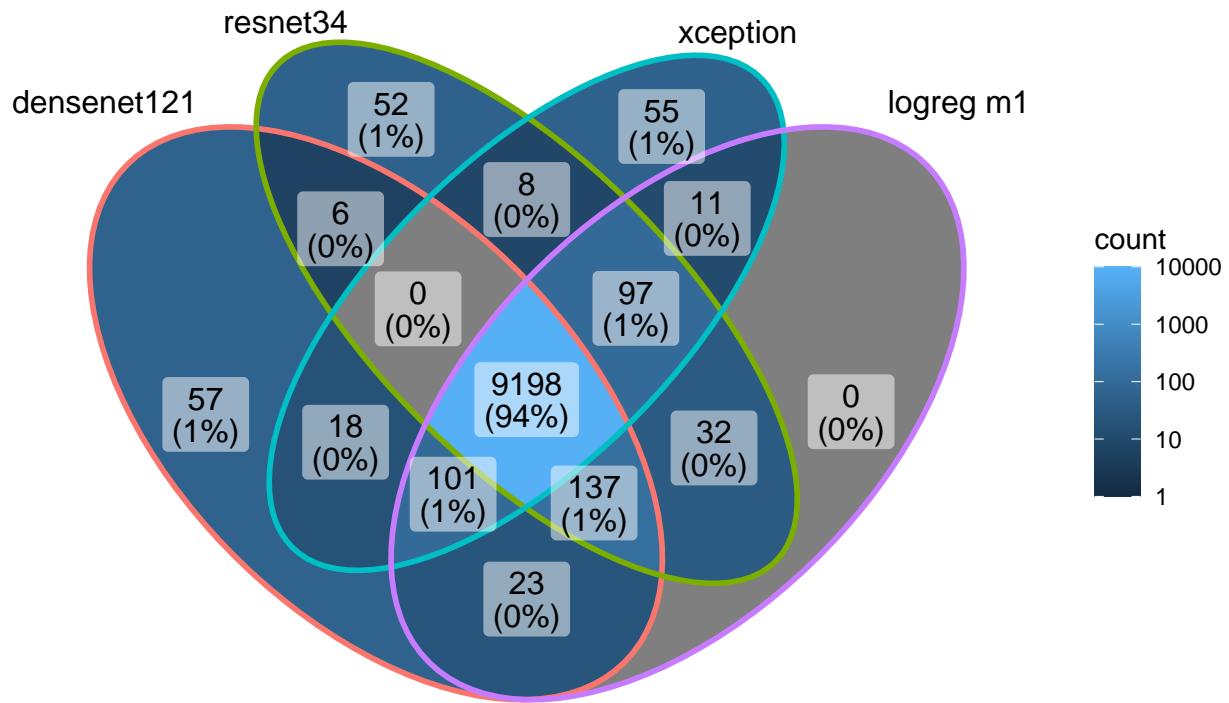


vt – replication 20

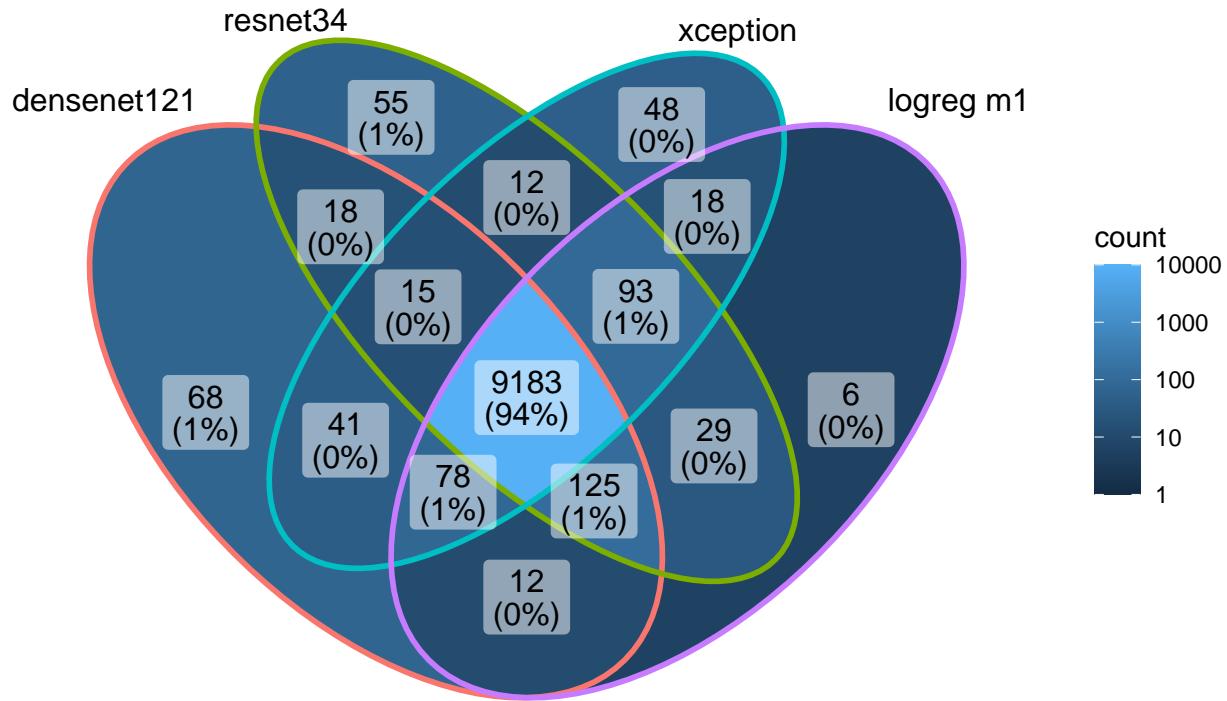


Warning: Transformation introduced infinite values in discrete y-axis

tt – replication 20

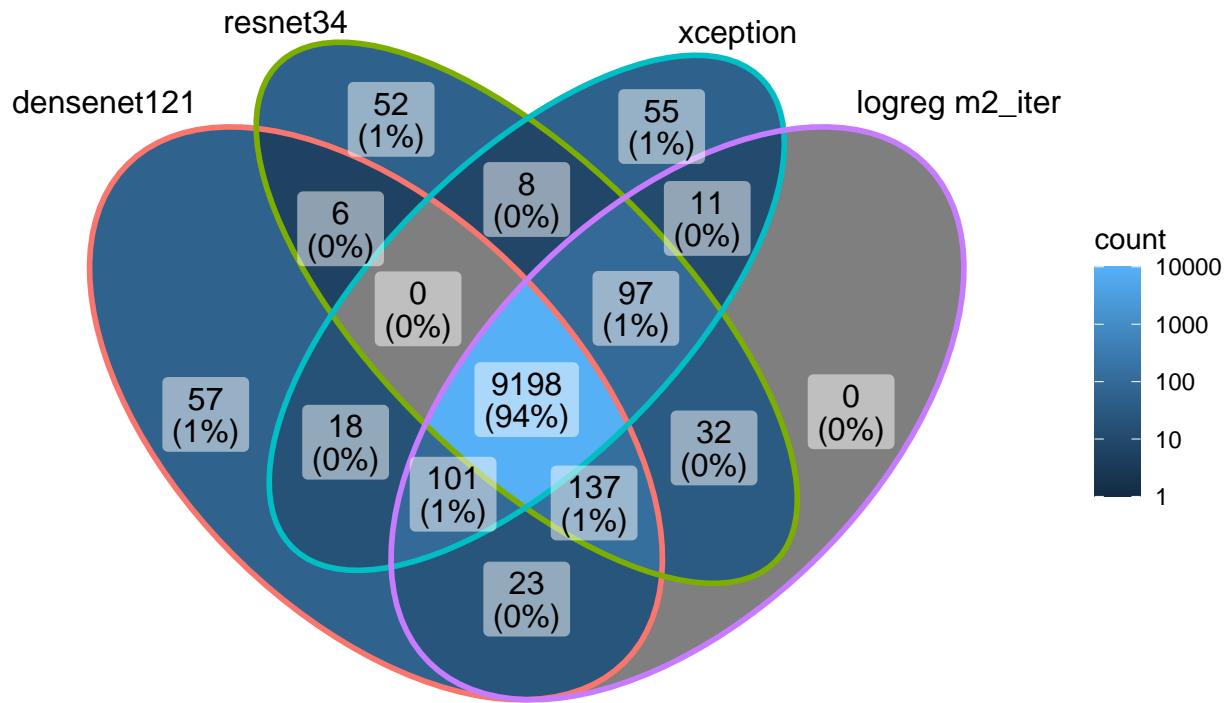


vt – replication 20

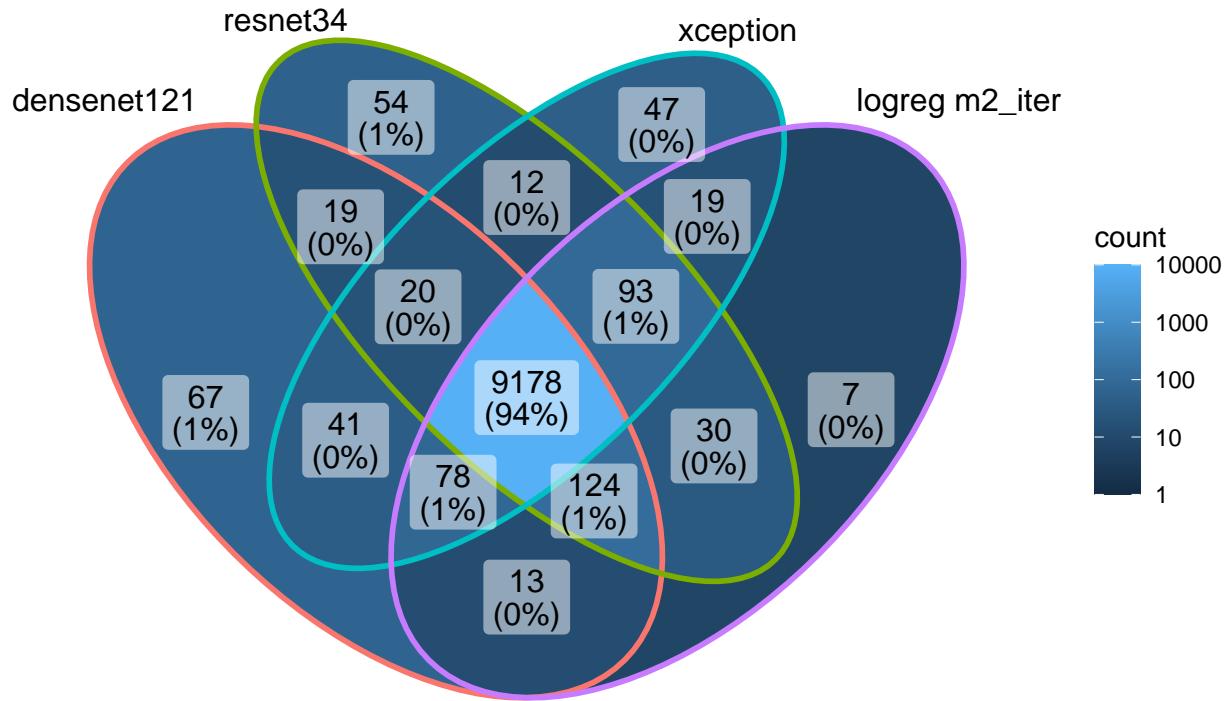


Warning: Transformation introduced infinite values in discrete y-axis

tt – replication 20

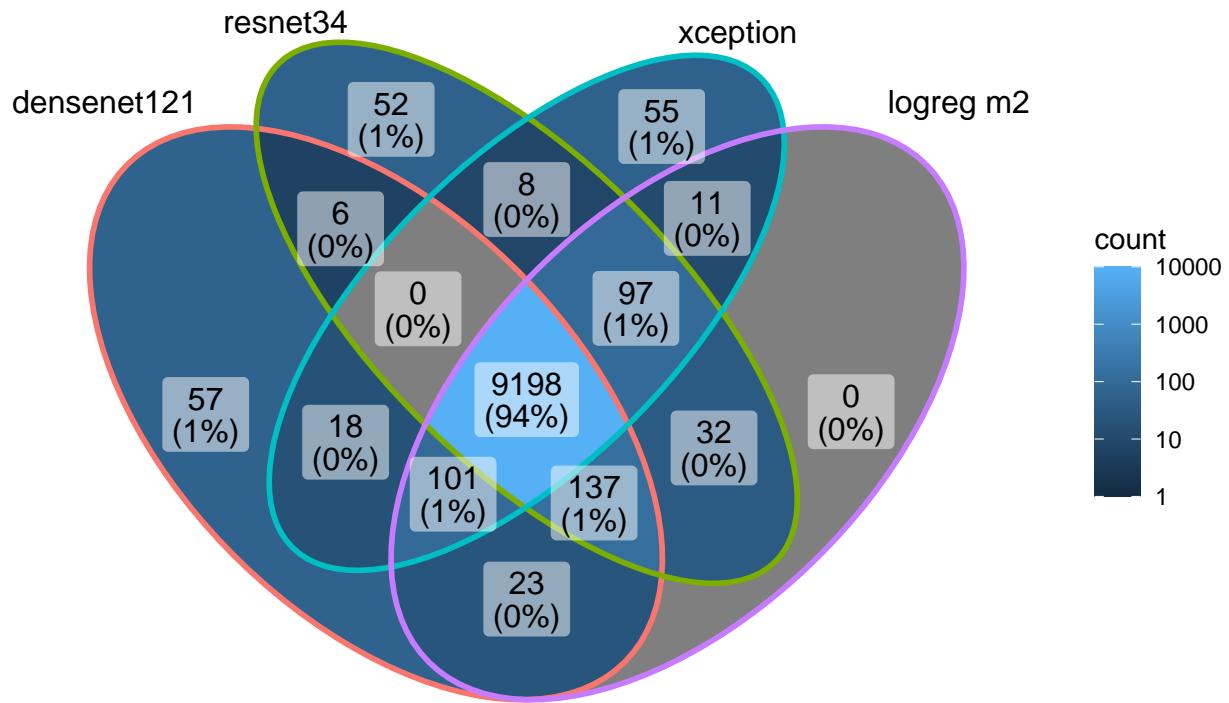


vt – replication 20

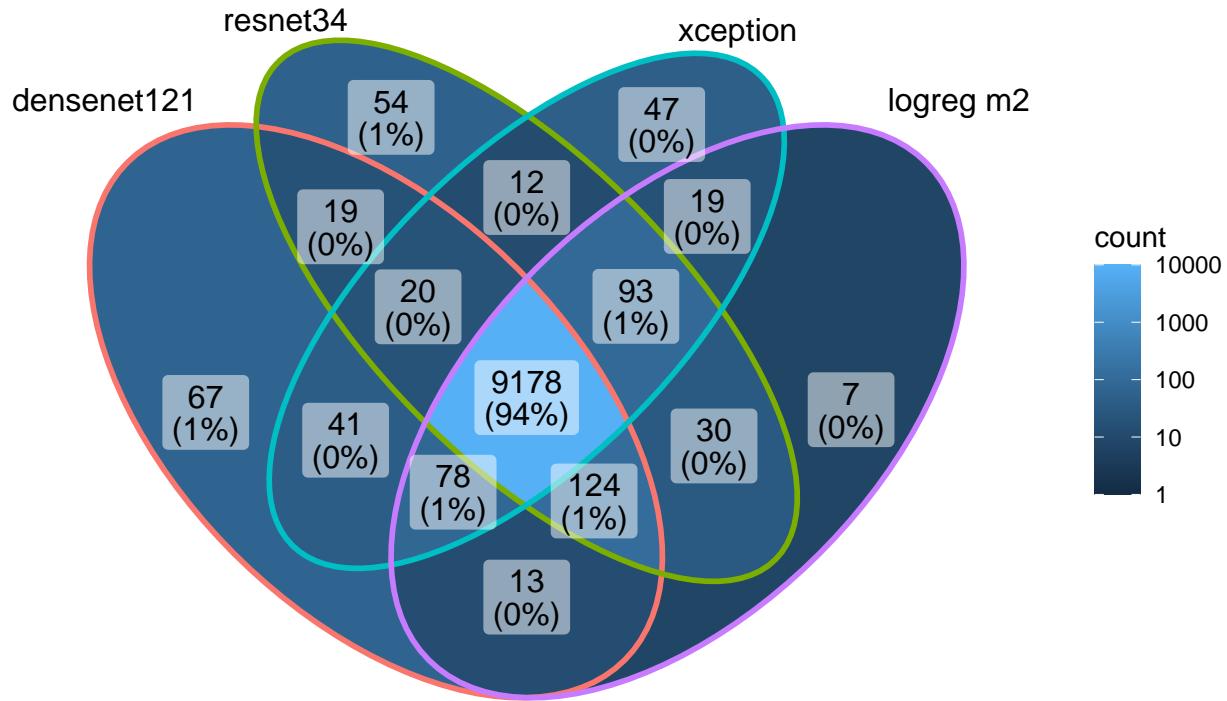


Warning: Transformation introduced infinite values in discrete y-axis

tt – replication 20

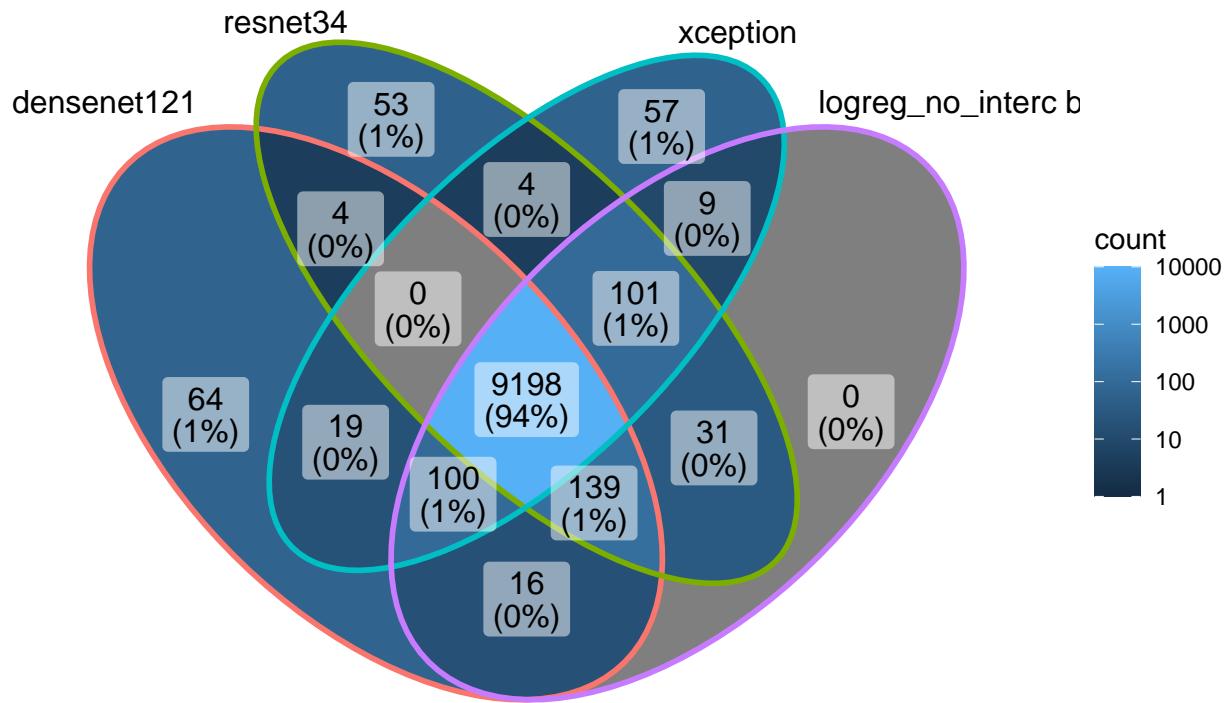


vt – replication 20

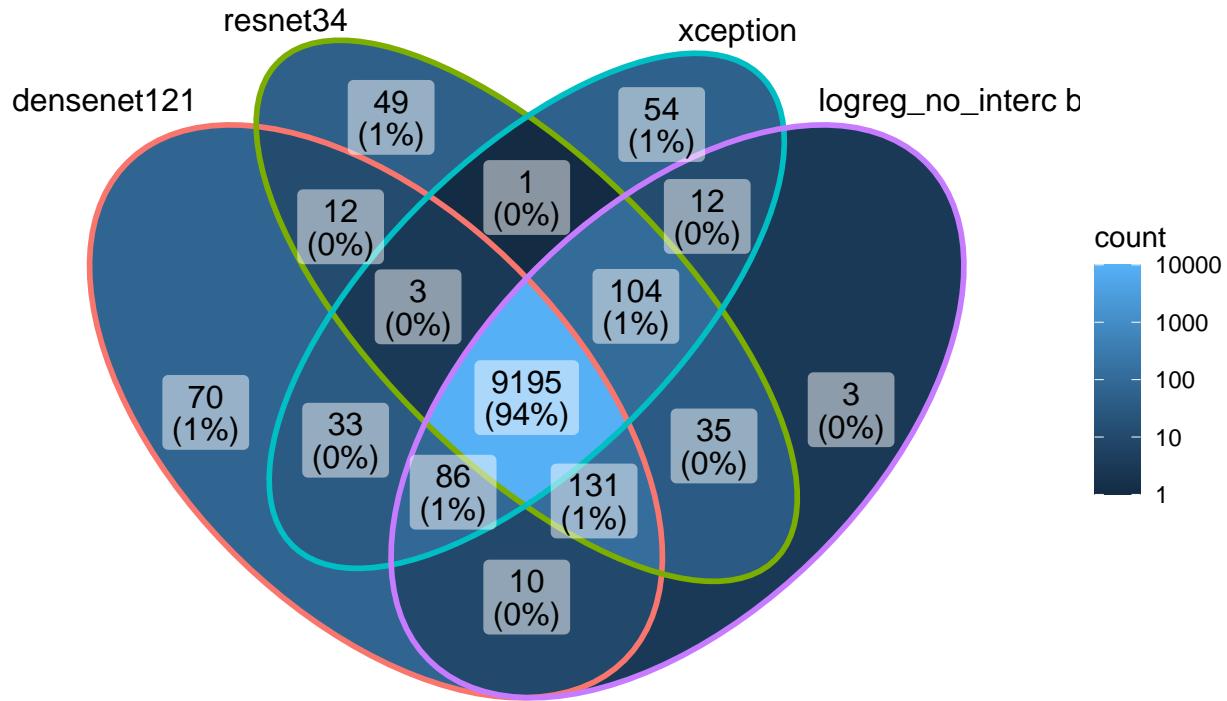


Warning: Transformation introduced infinite values in discrete y-axis

tt – replication 20

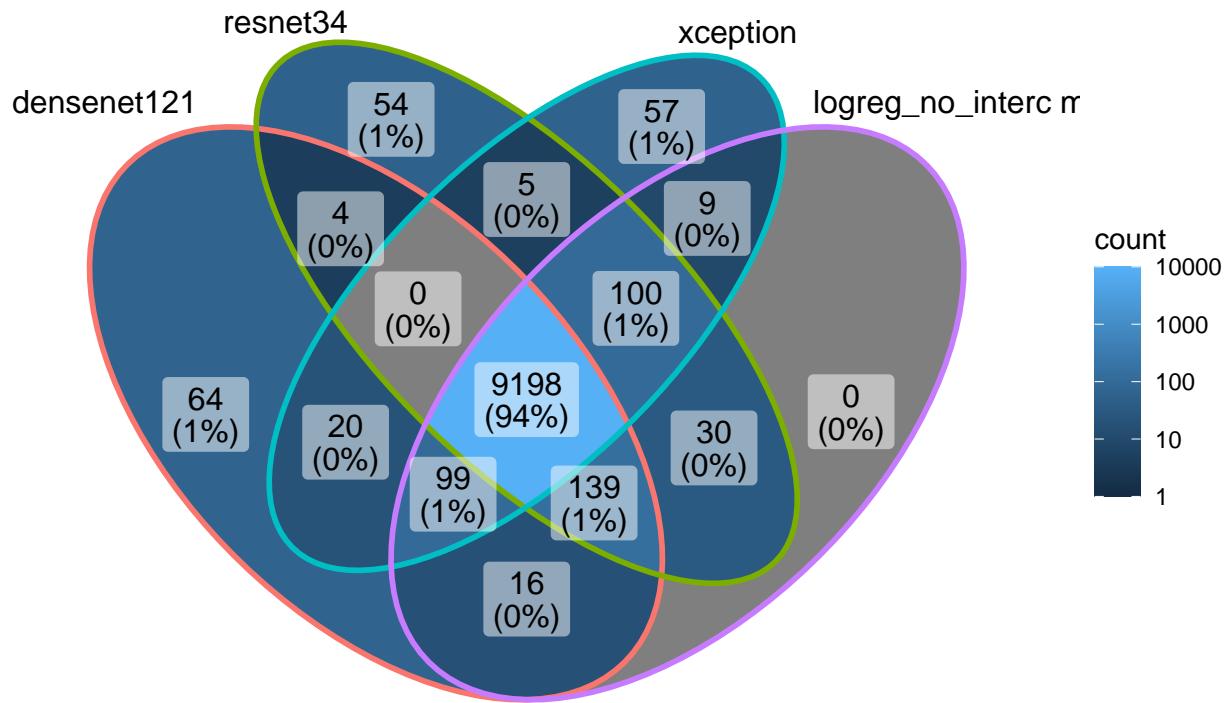


vt – replication 20

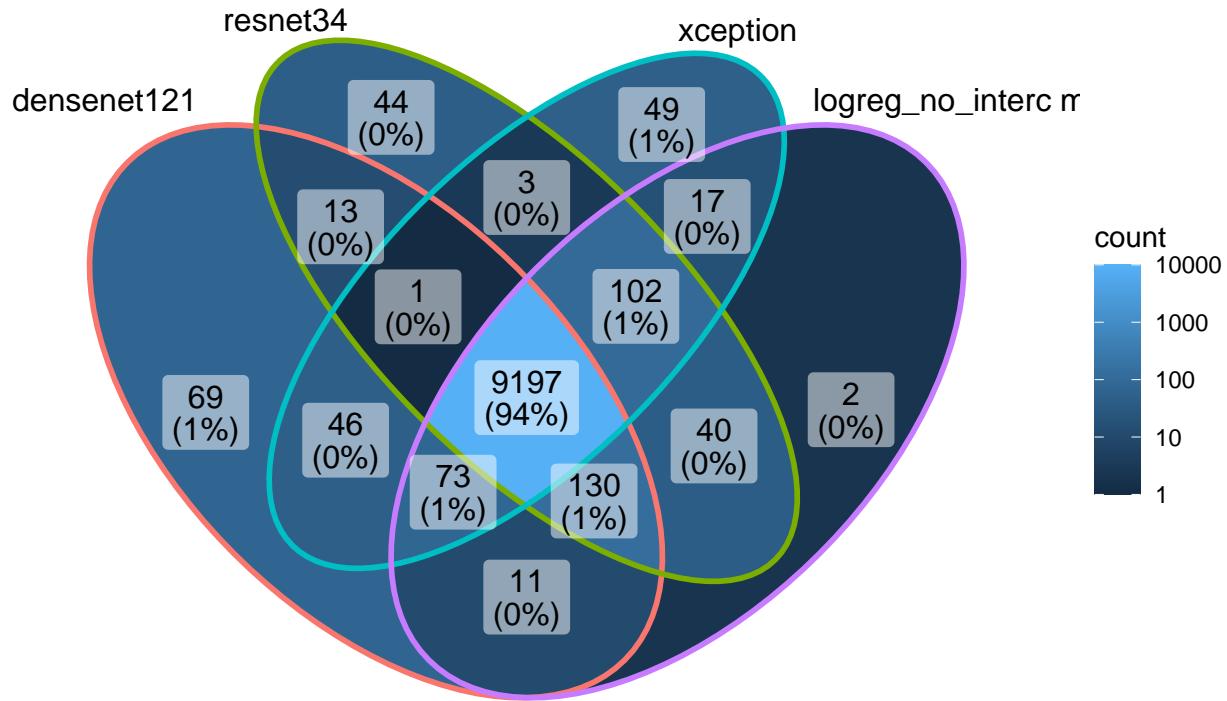


Warning: Transformation introduced infinite values in discrete y-axis

tt – replication 20

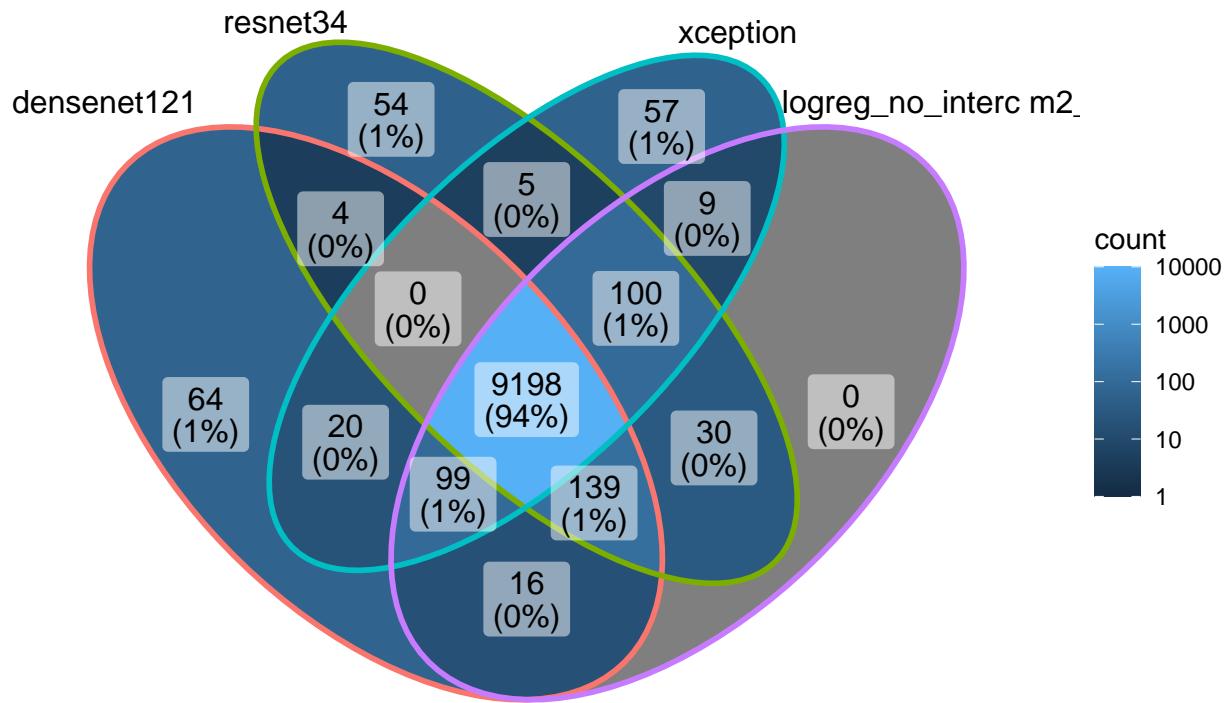


vt – replication 20

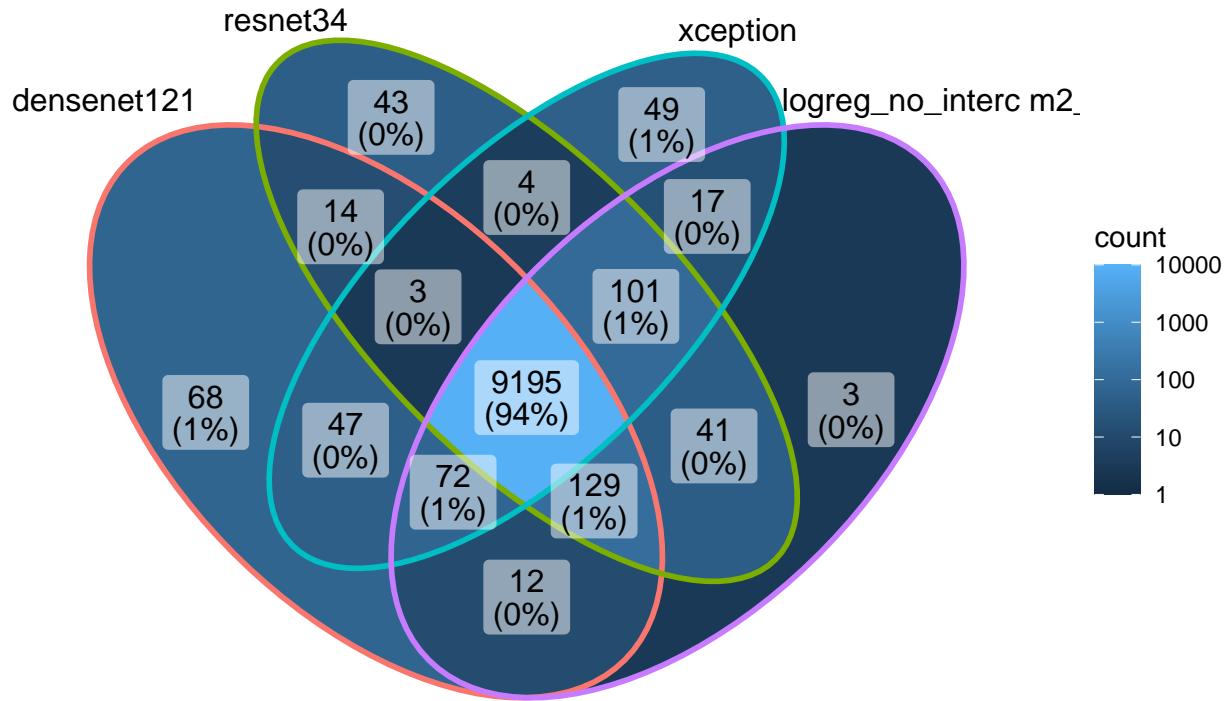


Warning: Transformation introduced infinite values in discrete y-axis

tt – replication 20

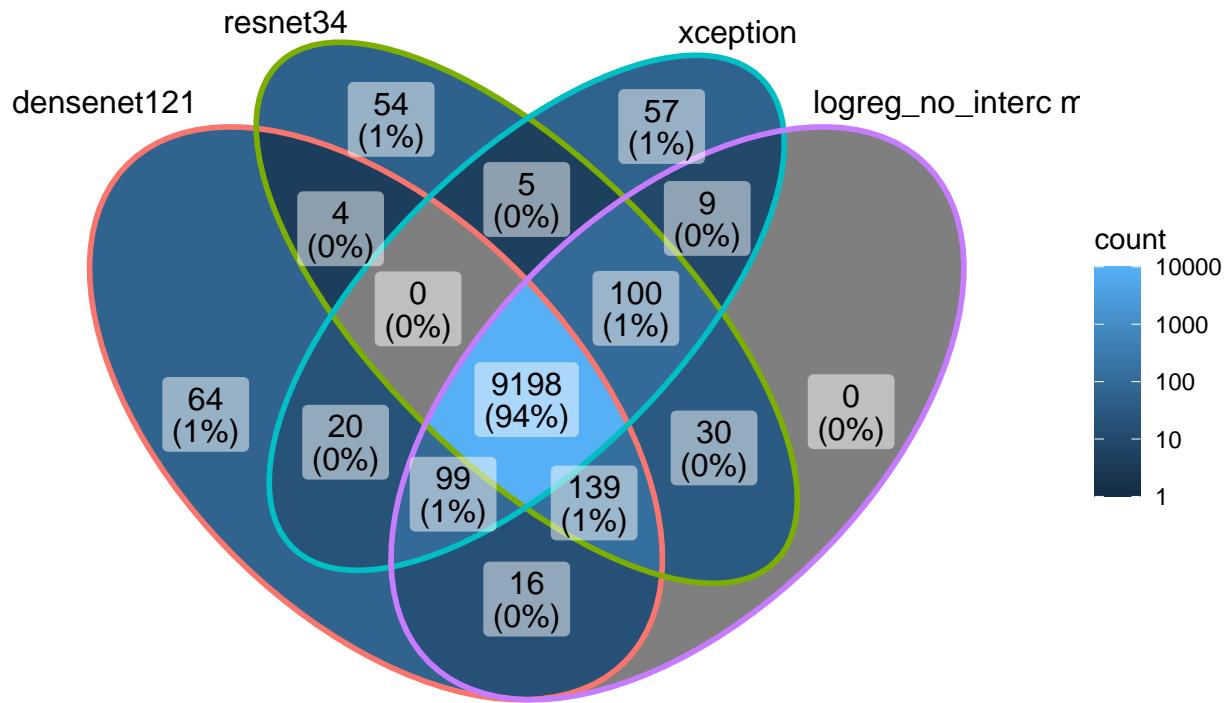


vt – replication 20

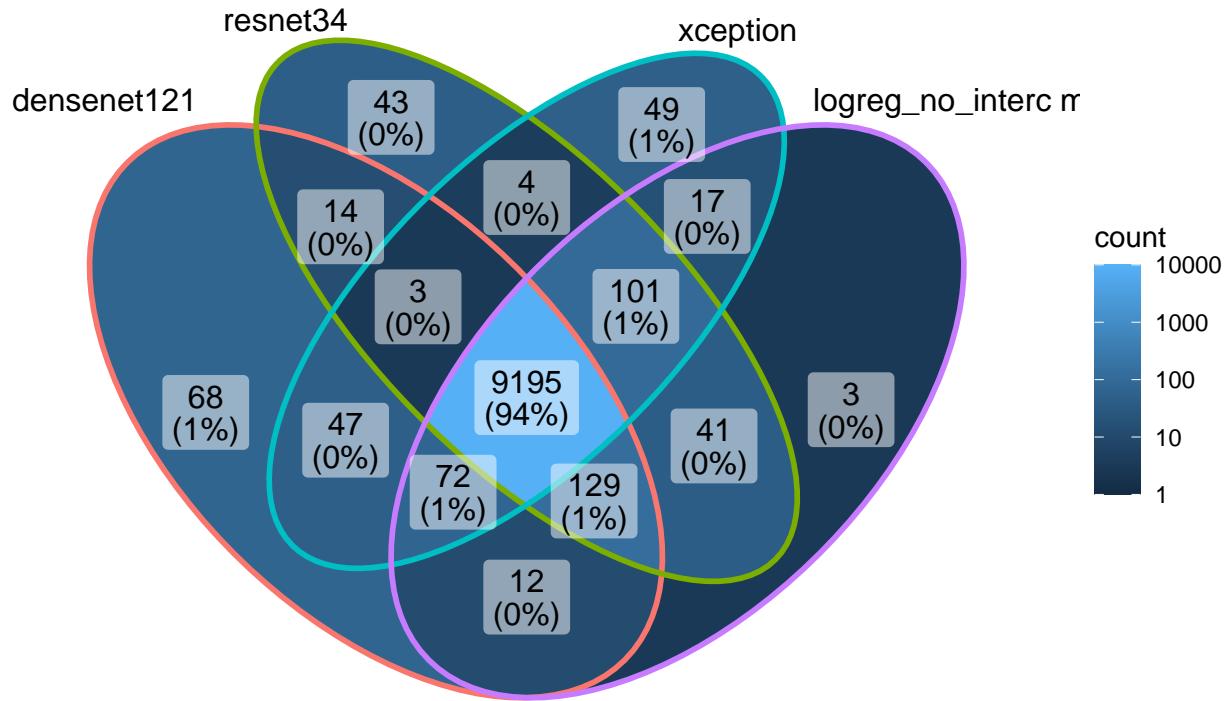


Warning: Transformation introduced infinite values in discrete y-axis

tt – replication 20

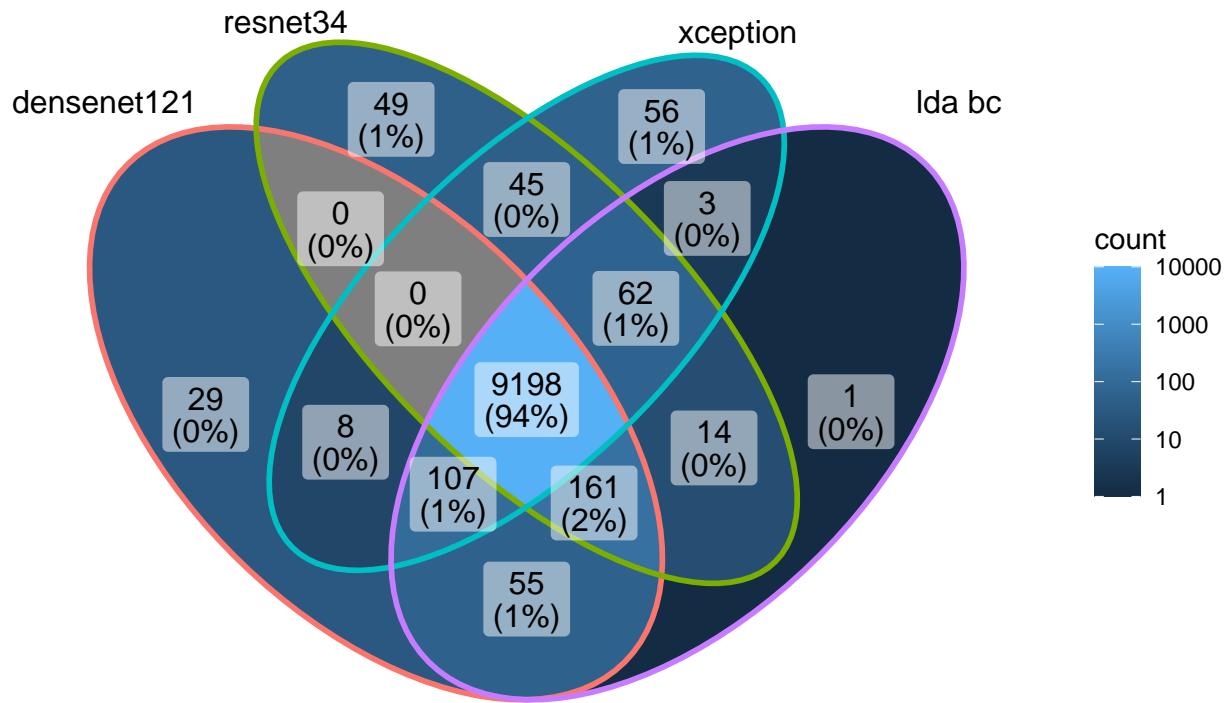


vt – replication 20

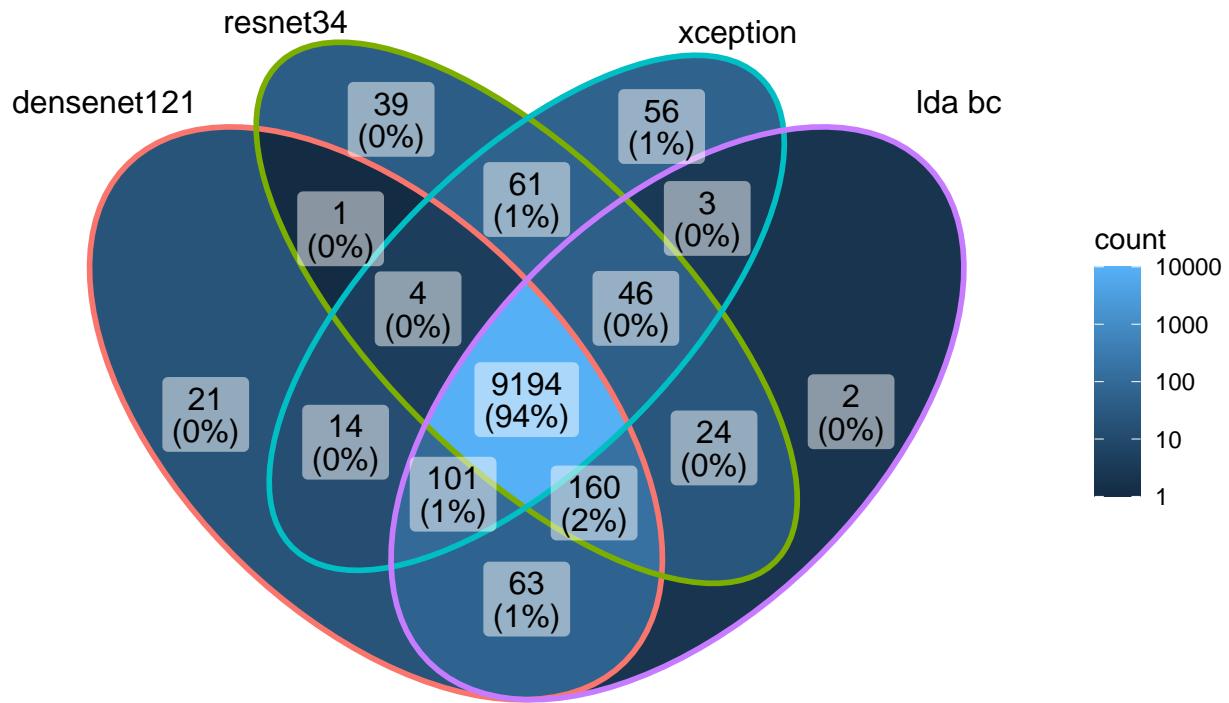


Warning: Transformation introduced infinite values in discrete y-axis

tt – replication 21

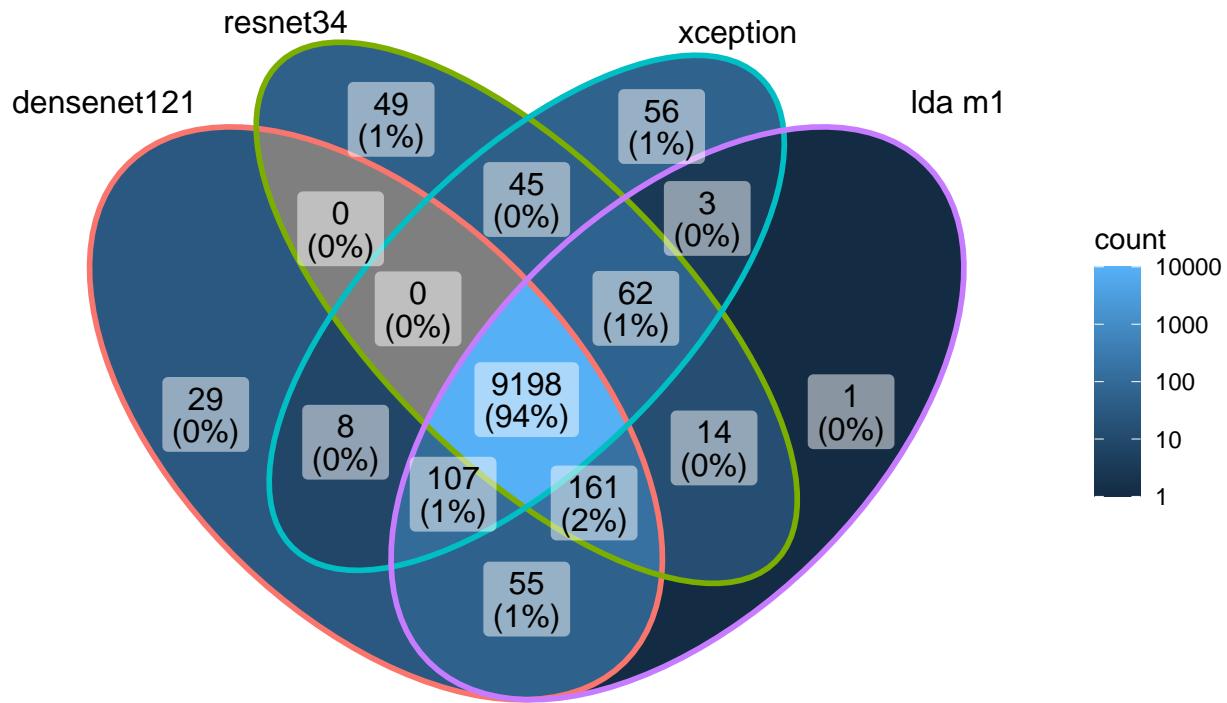


vt – replication 21

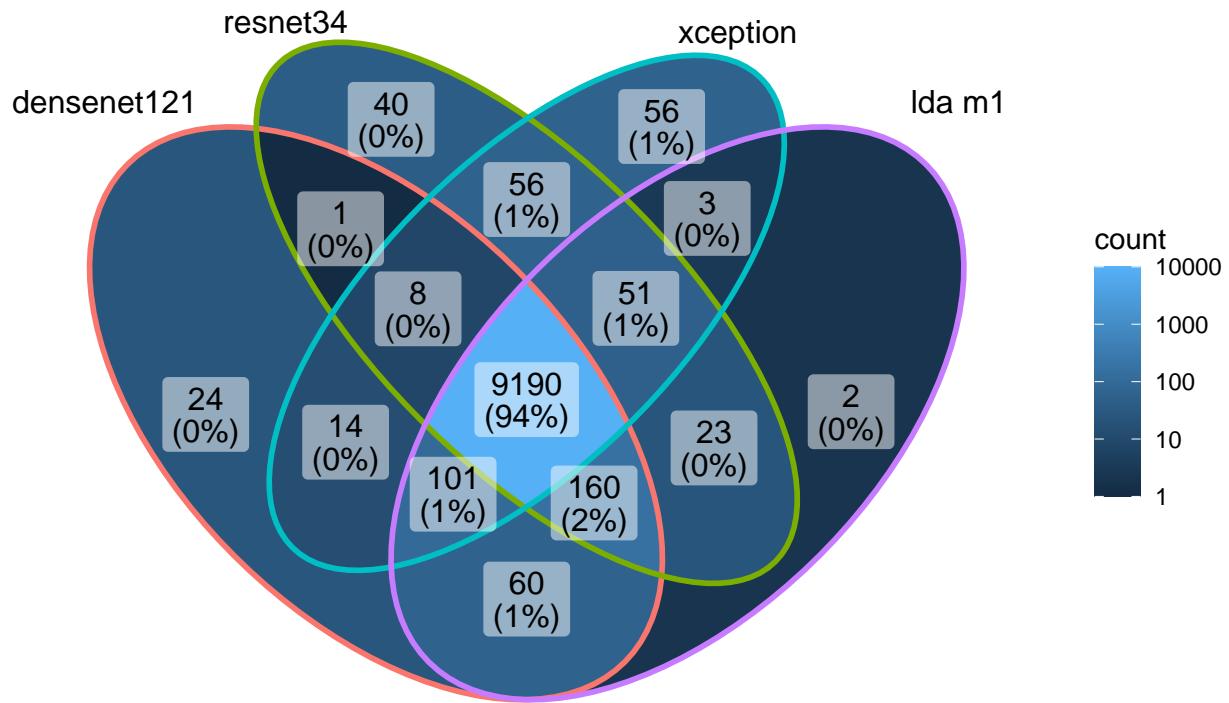


Warning: Transformation introduced infinite values in discrete y-axis

tt – replication 21

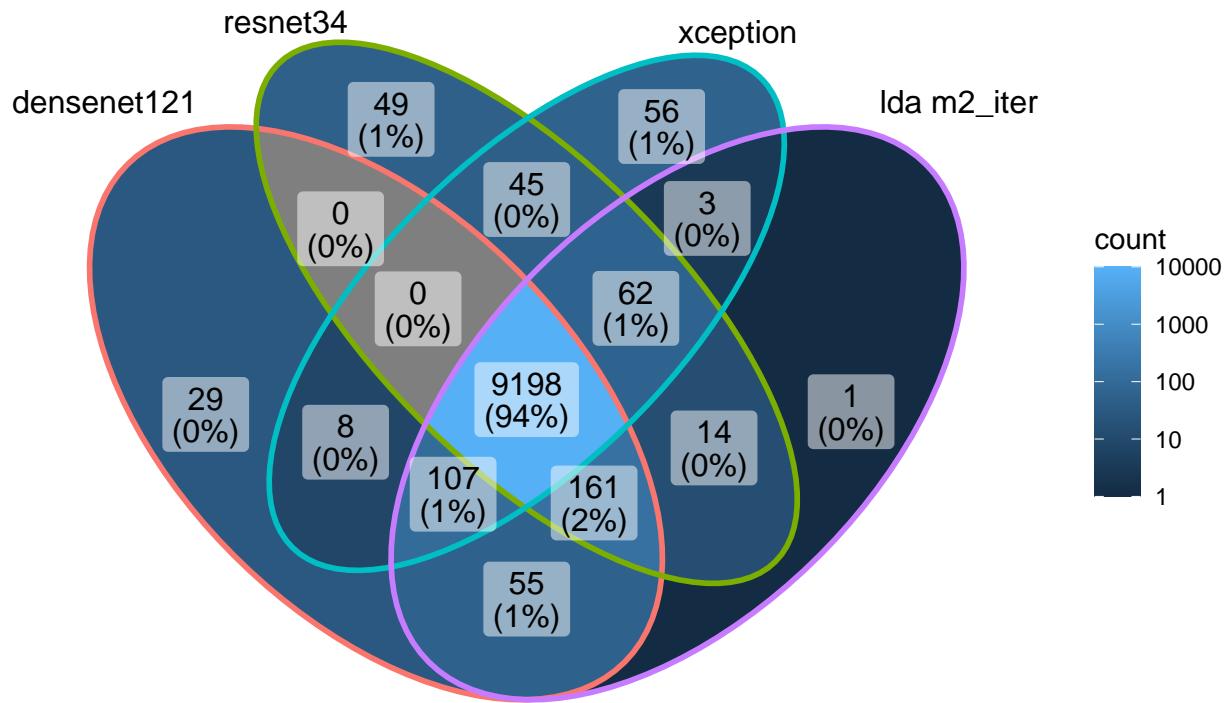


vt – replication 21

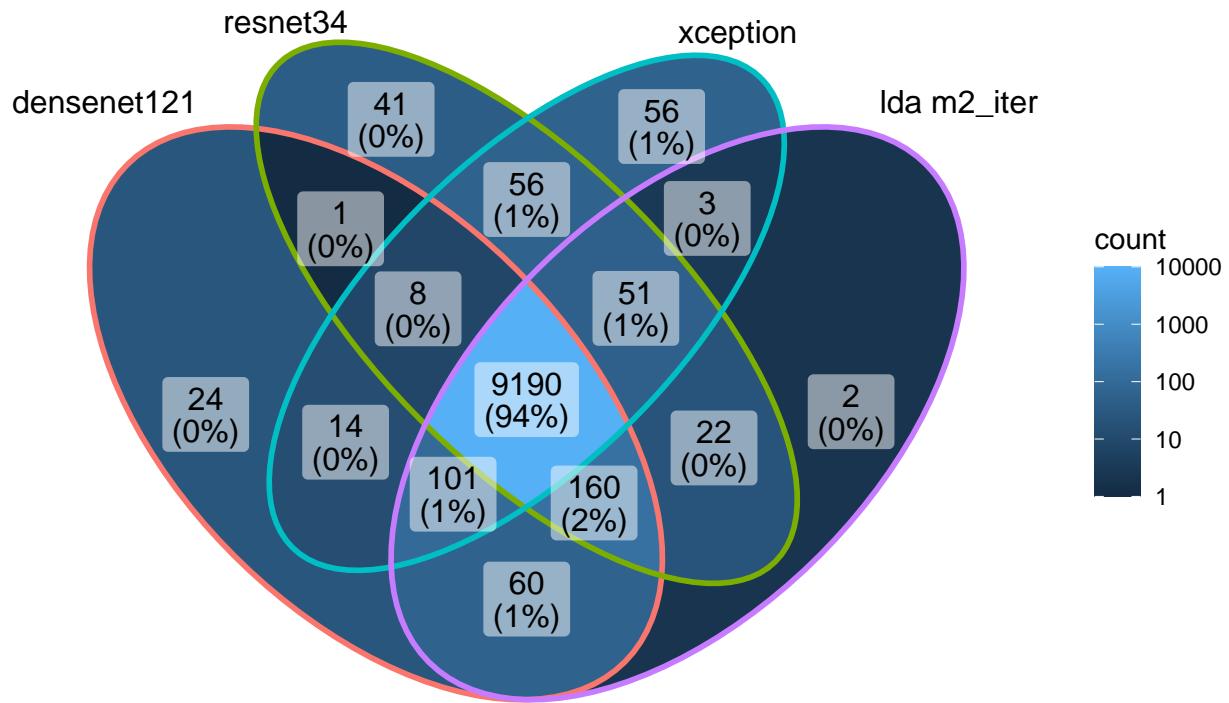


Warning: Transformation introduced infinite values in discrete y-axis

tt – replication 21

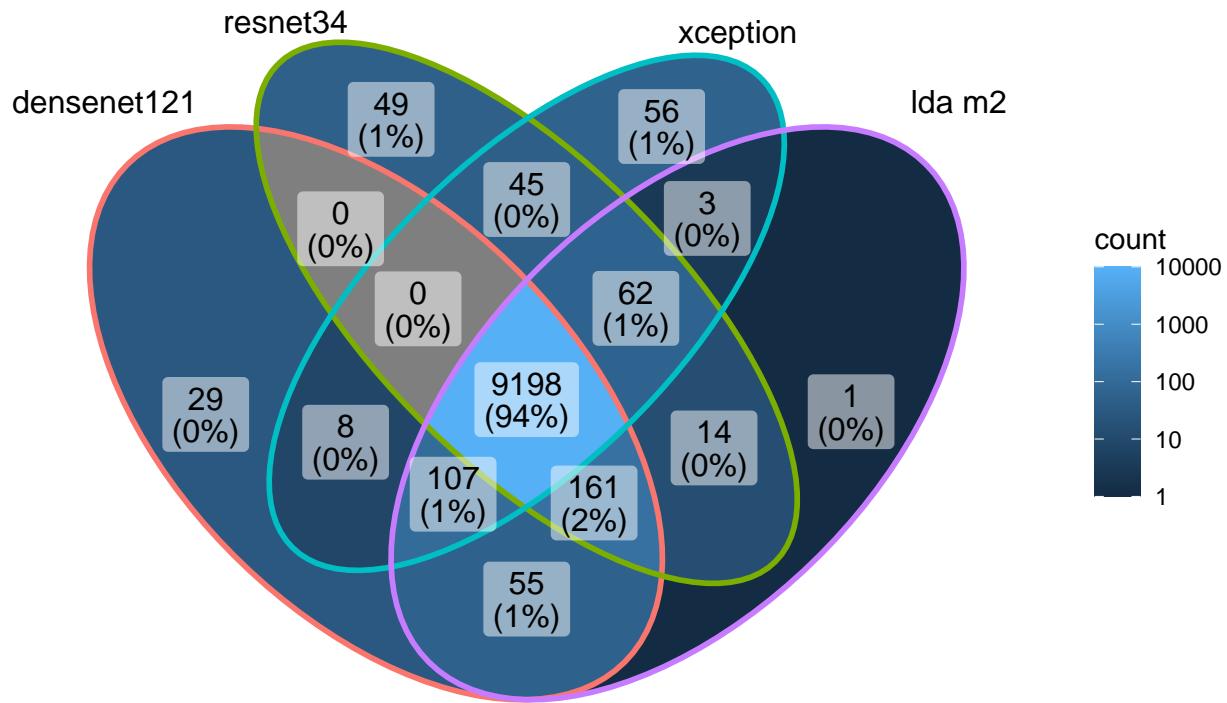


vt – replication 21

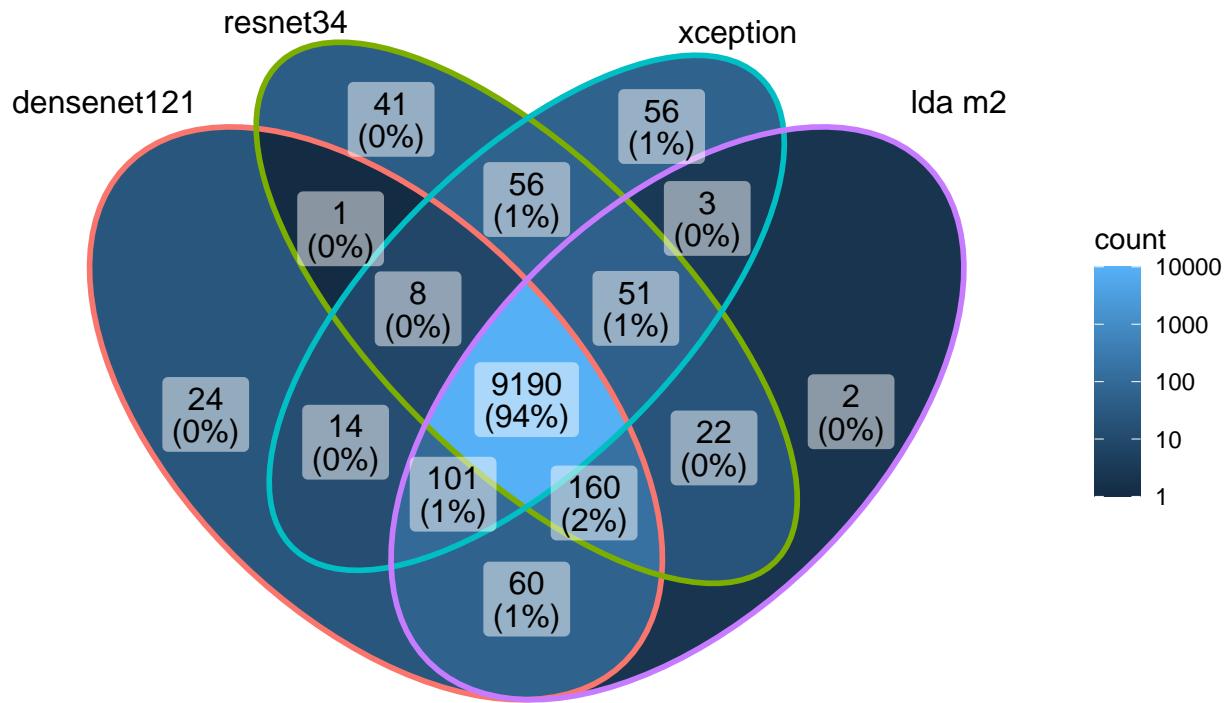


Warning: Transformation introduced infinite values in discrete y-axis

tt – replication 21

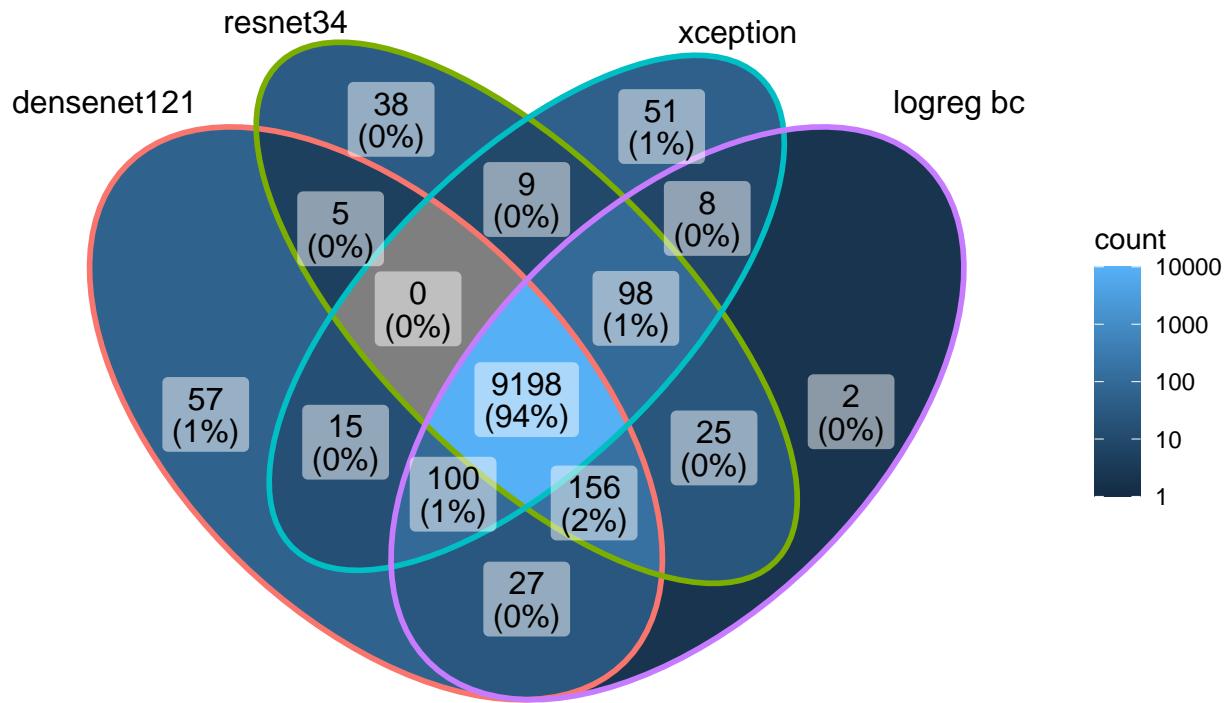


vt – replication 21

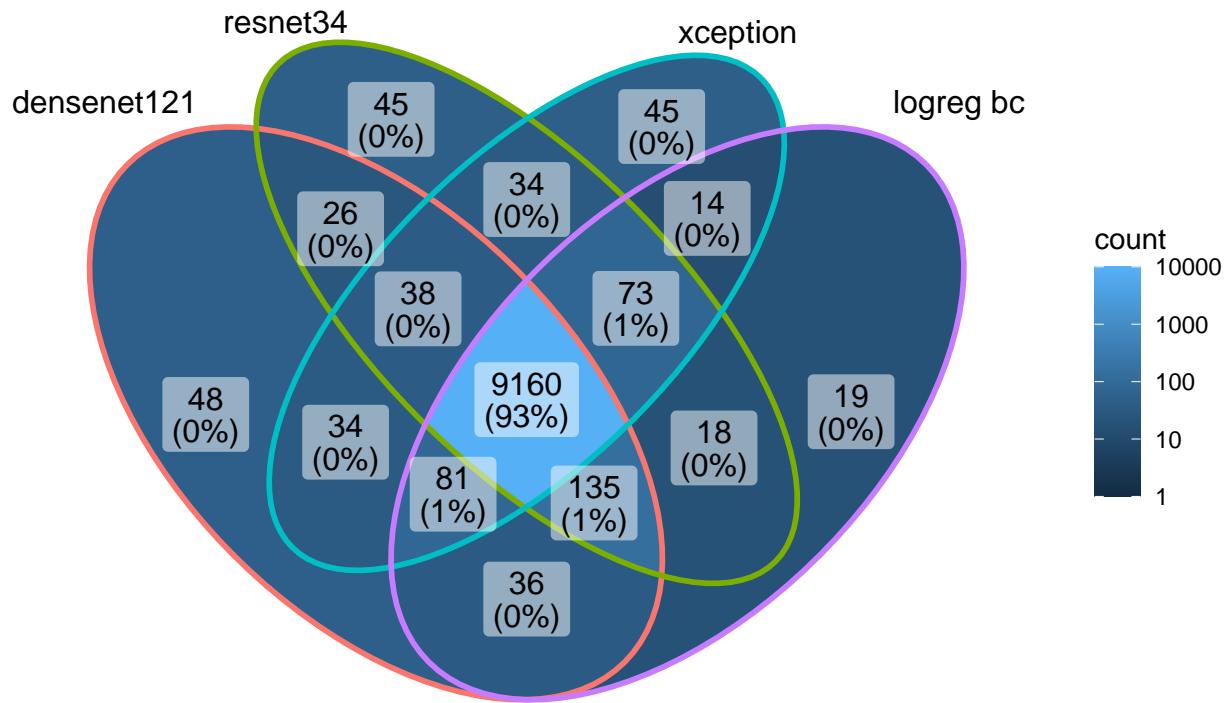


Warning: Transformation introduced infinite values in discrete y-axis

tt – replication 21

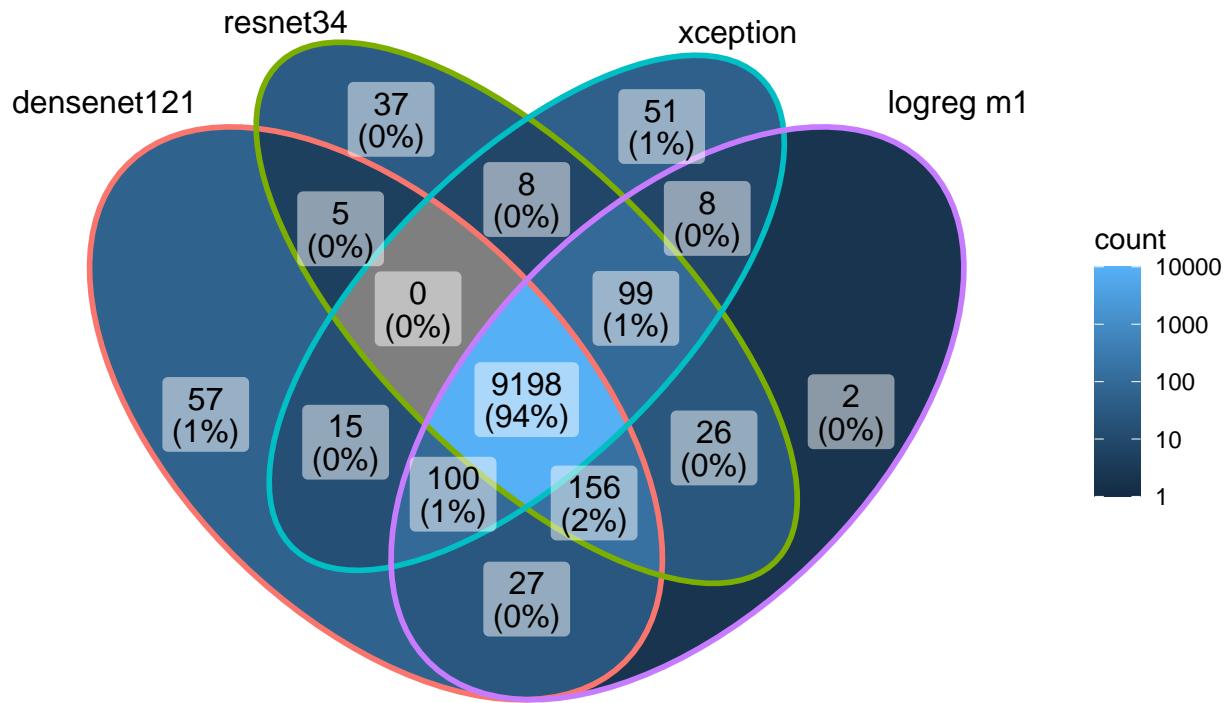


vt – replication 21

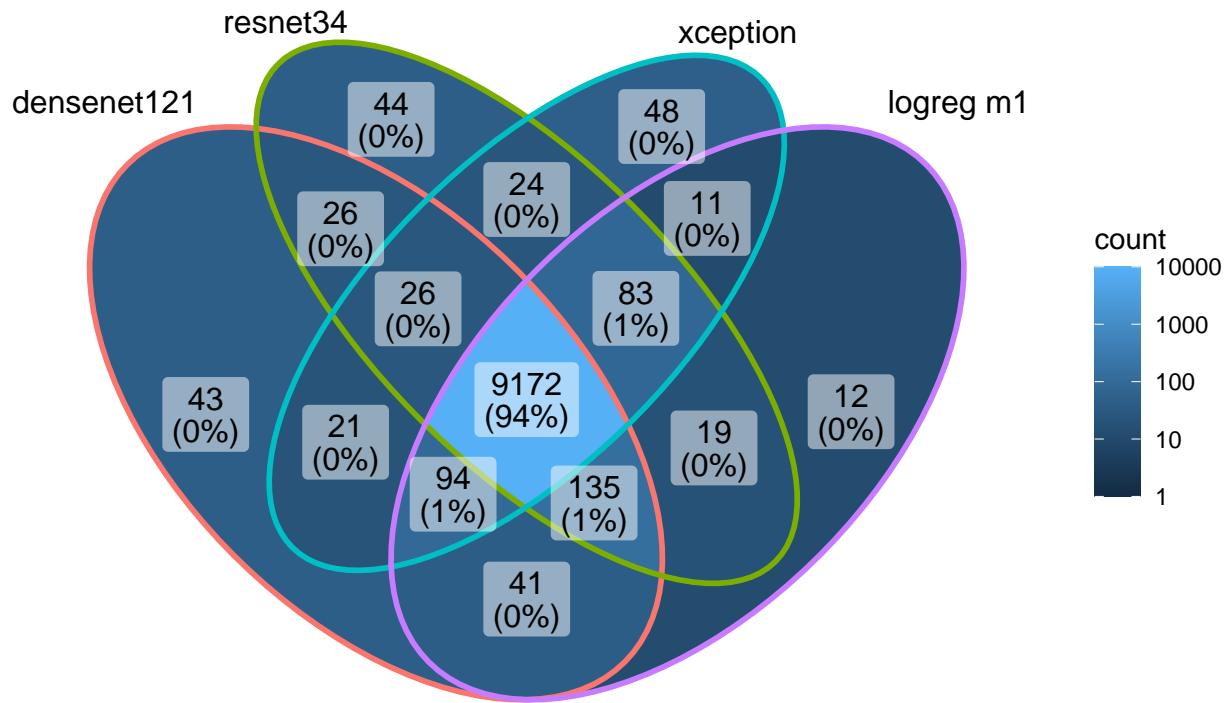


Warning: Transformation introduced infinite values in discrete y-axis

tt – replication 21

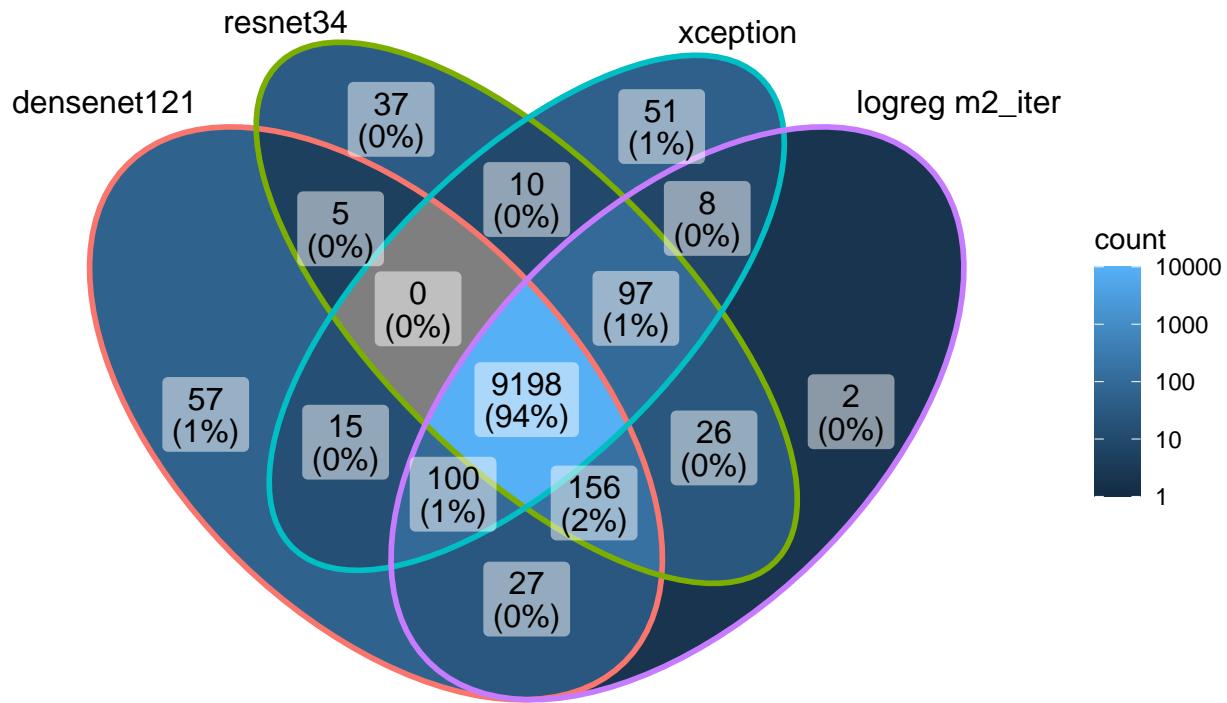


vt – replication 21

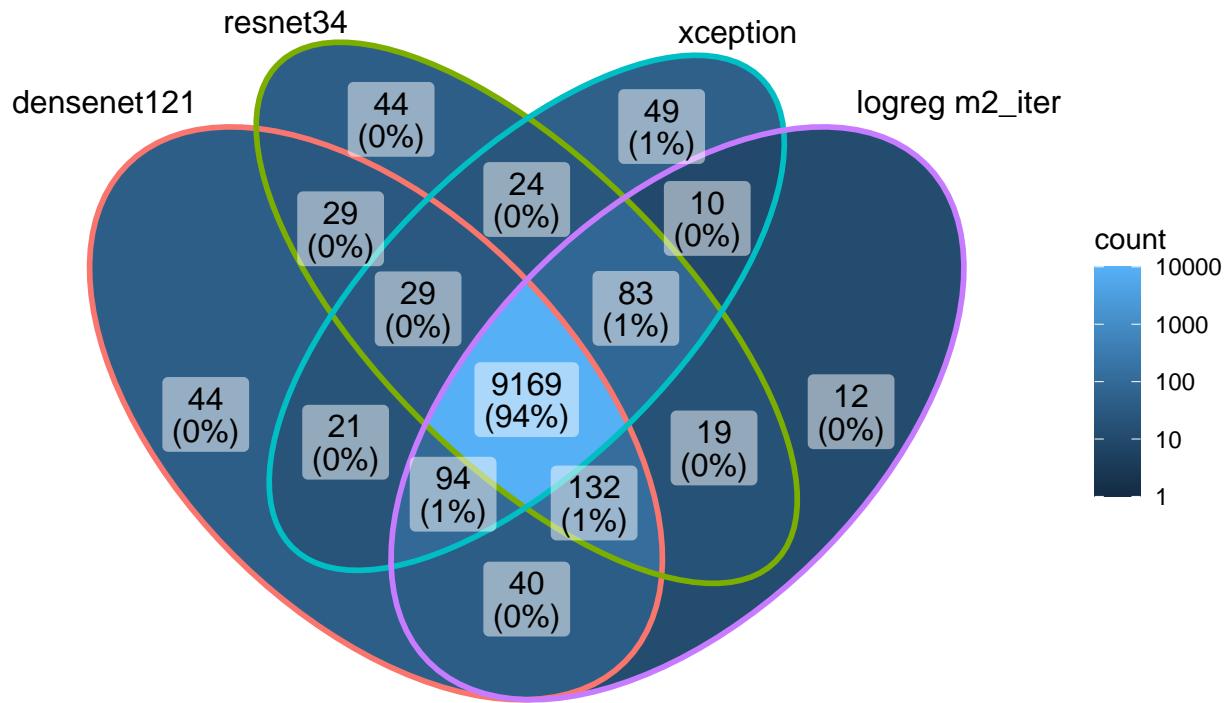


Warning: Transformation introduced infinite values in discrete y-axis

tt – replication 21

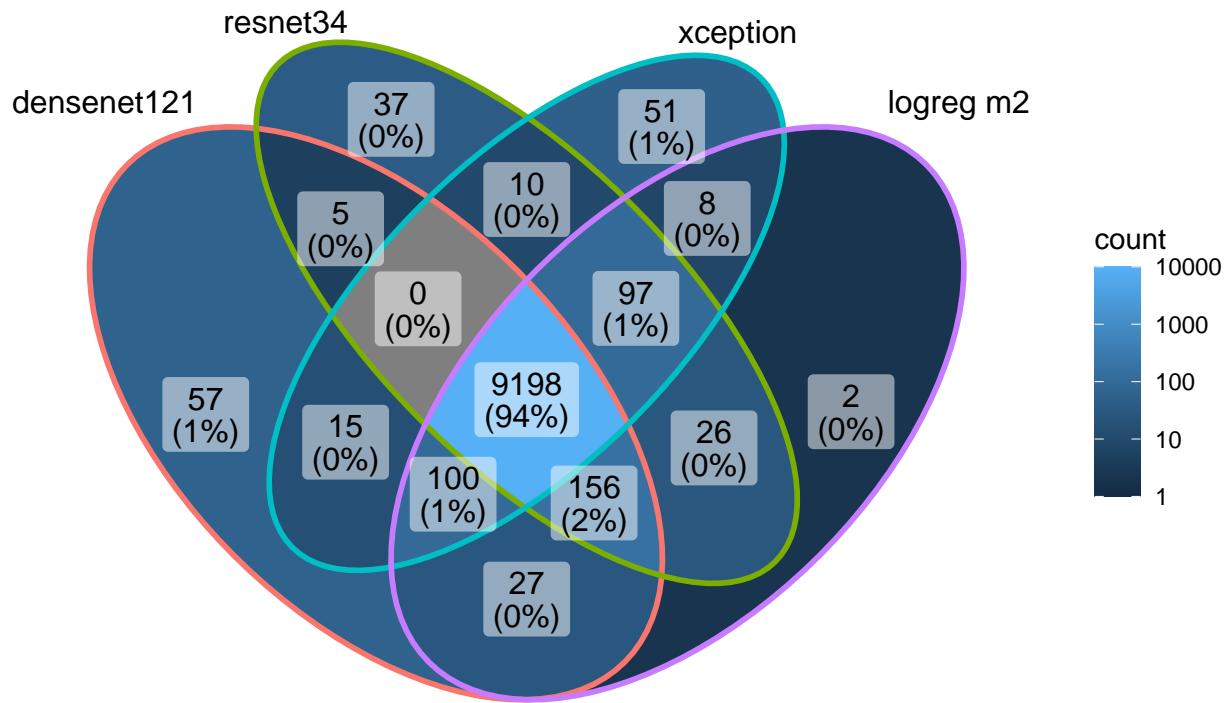


vt – replication 21

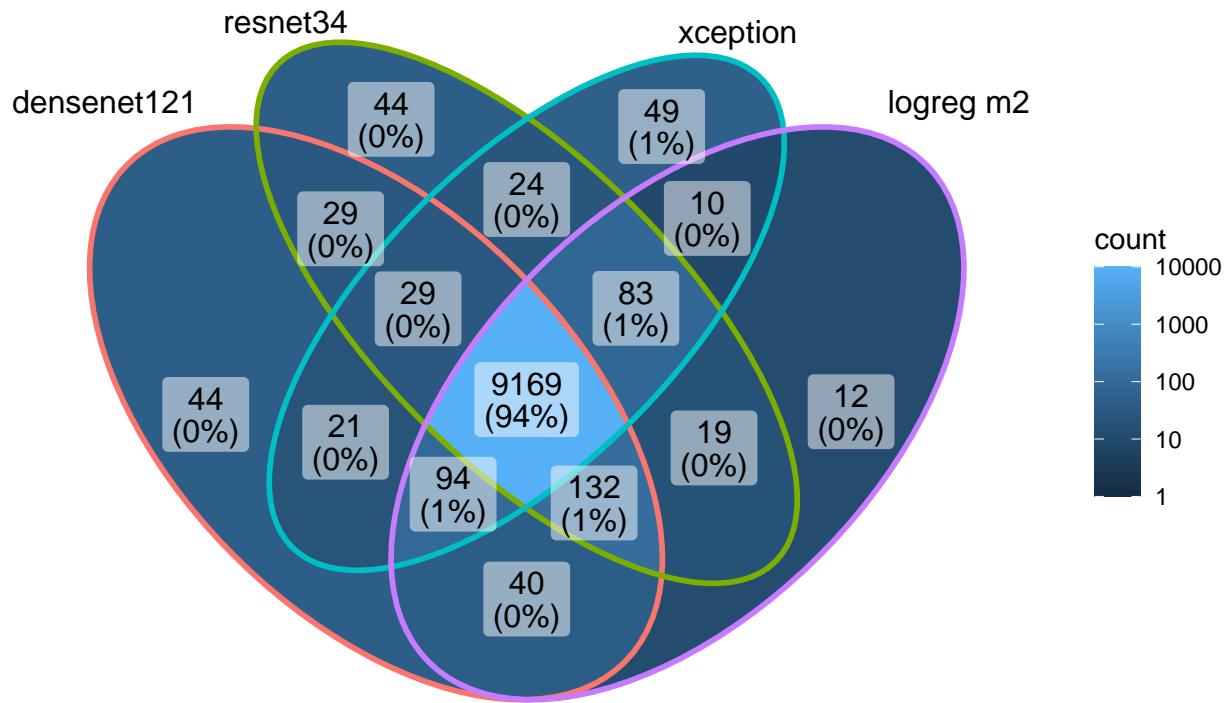


Warning: Transformation introduced infinite values in discrete y-axis

tt – replication 21

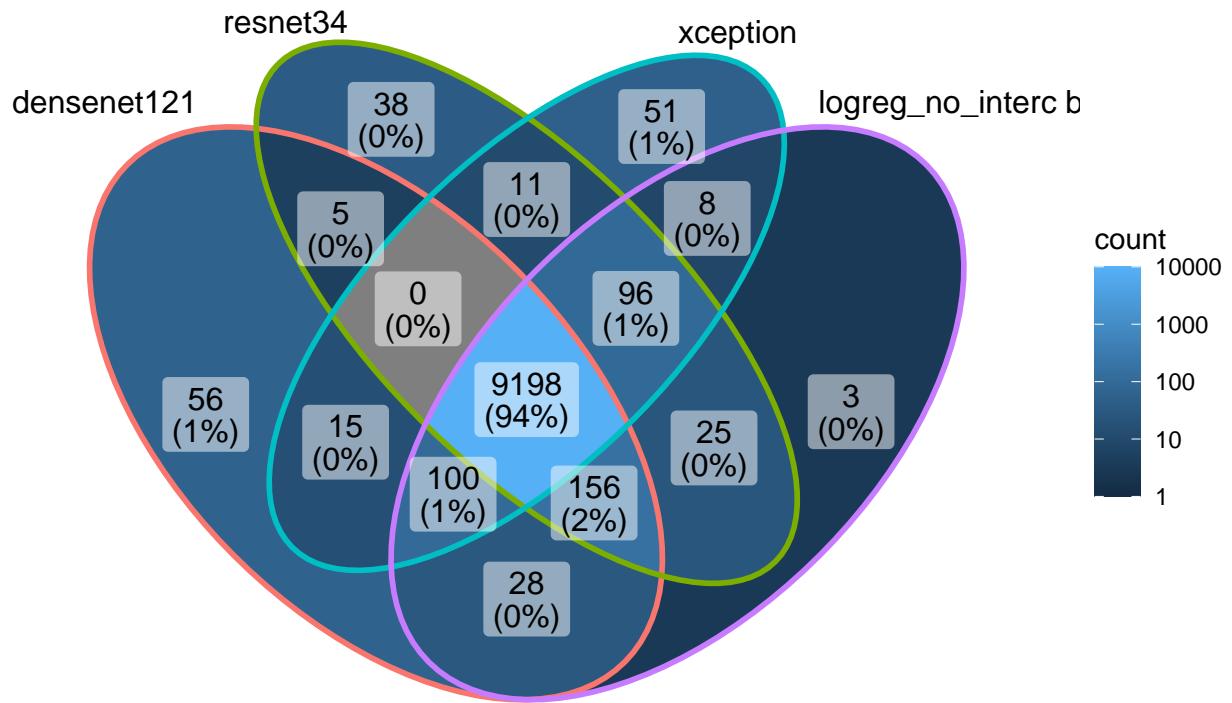


vt – replication 21



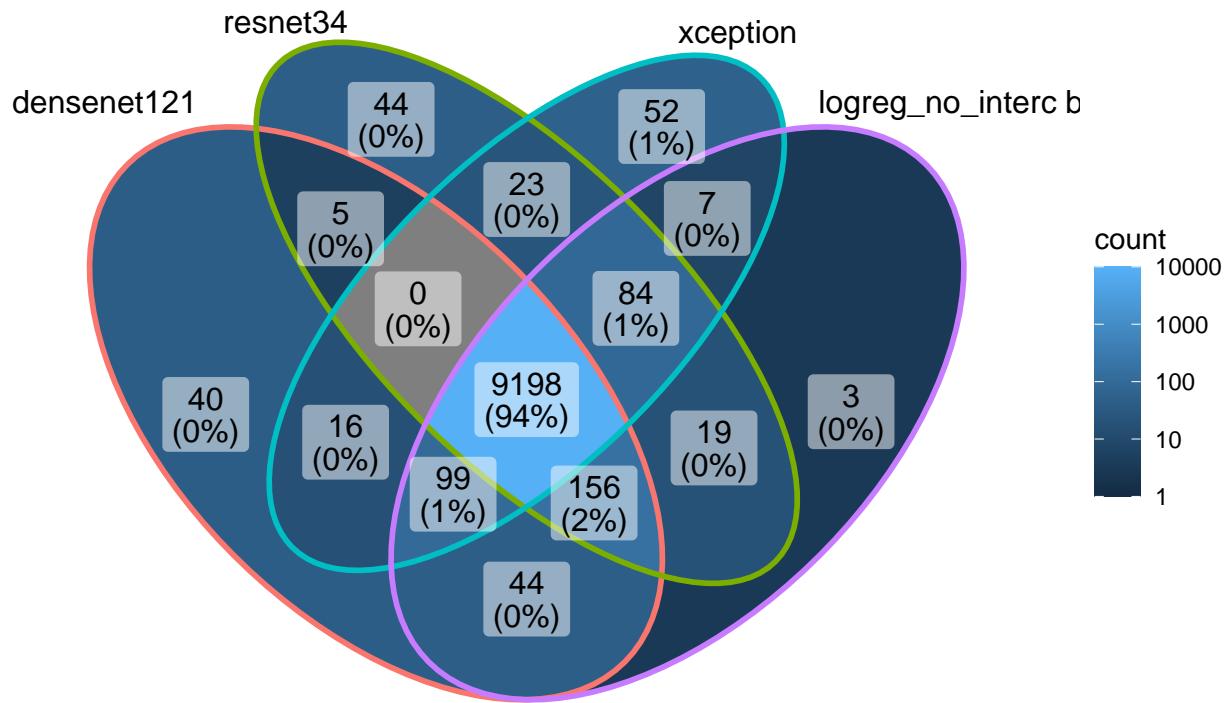
Warning: Transformation introduced infinite values in discrete y-axis

tt – replication 21



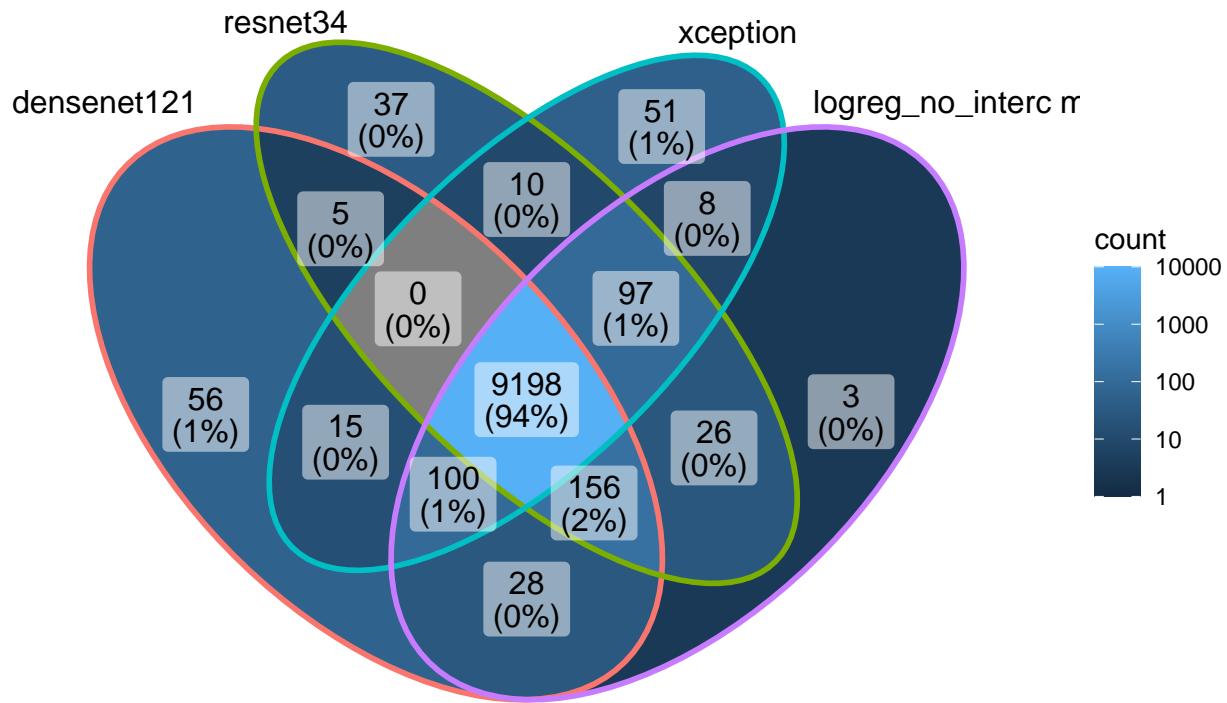
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vt – replication 21

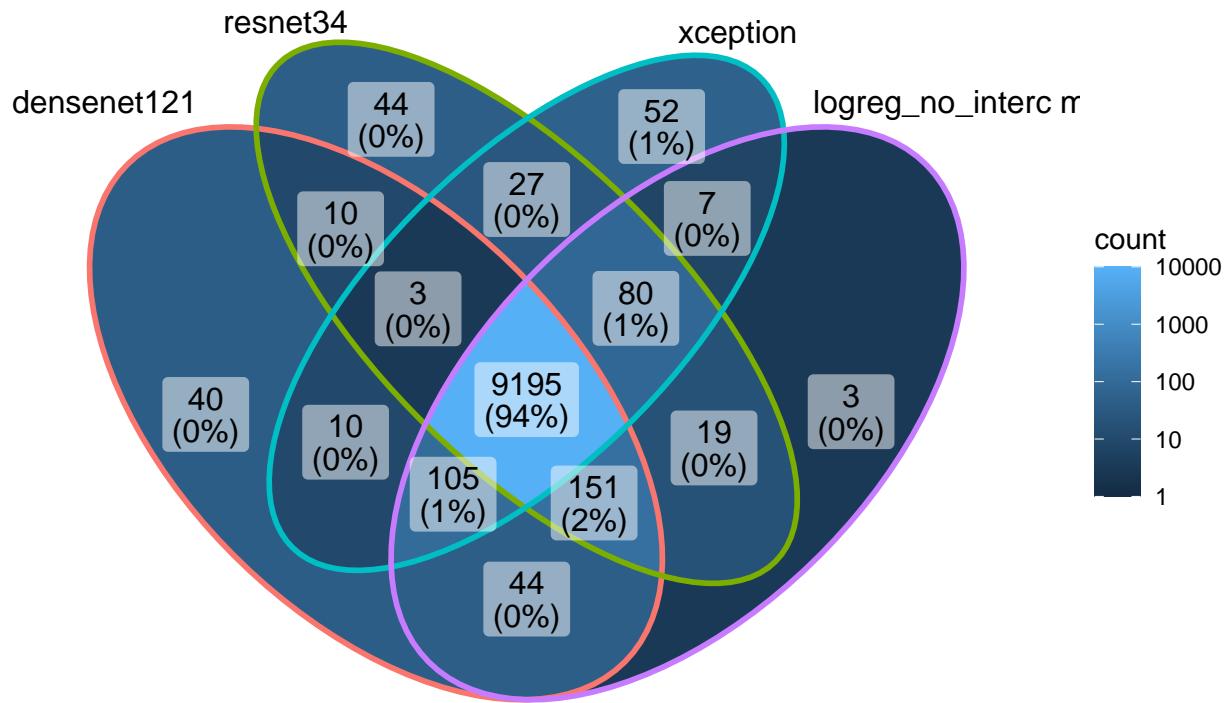


Warning: Transformation introduced infinite values in discrete y-axis

tt – replication 21

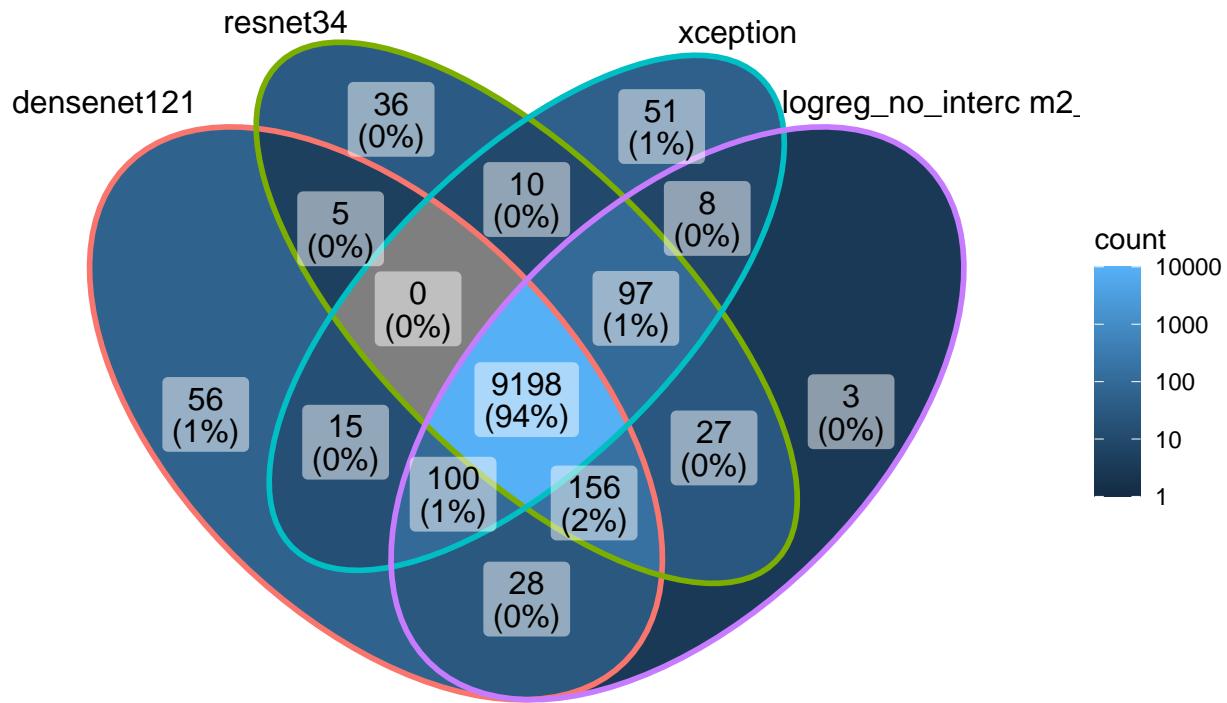


vt – replication 21

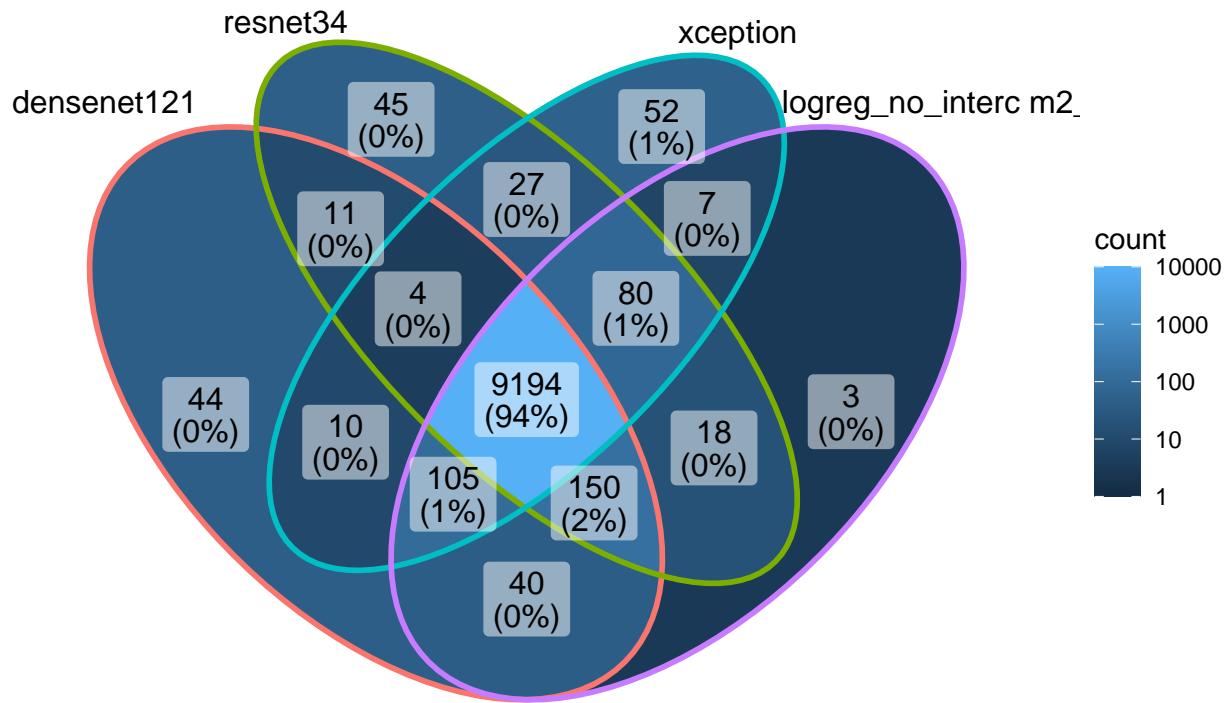


Warning: Transformation introduced infinite values in discrete y-axis

tt – replication 21

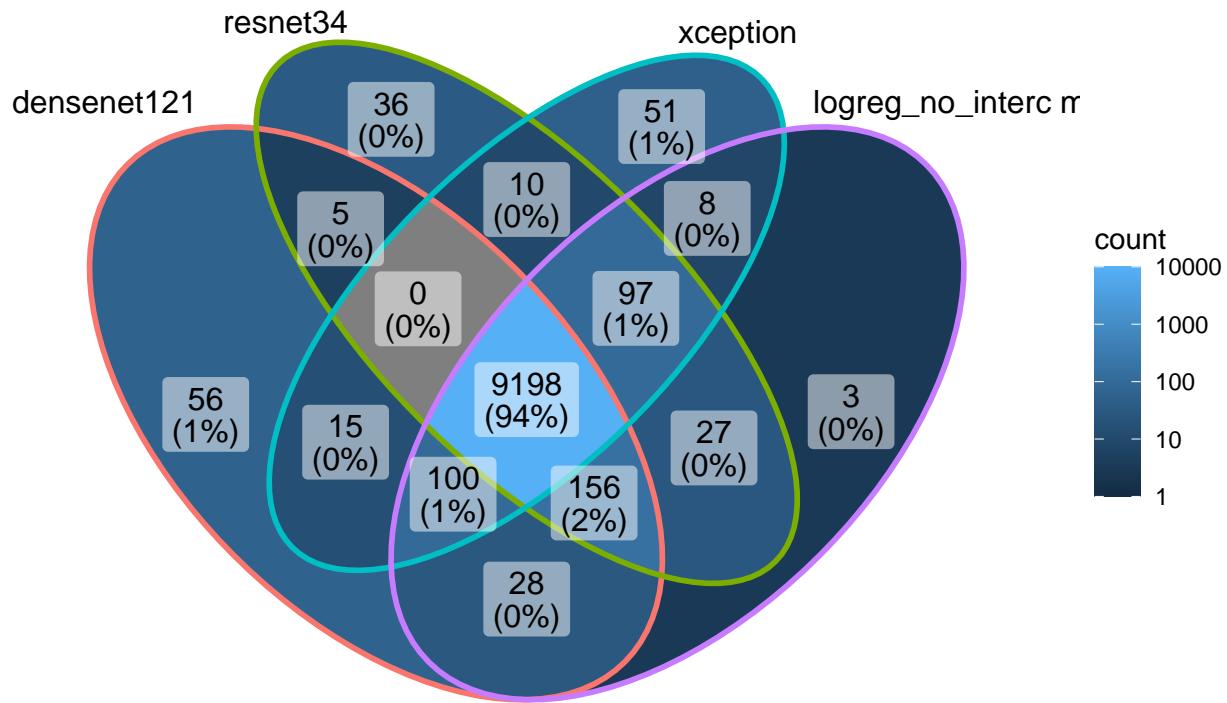


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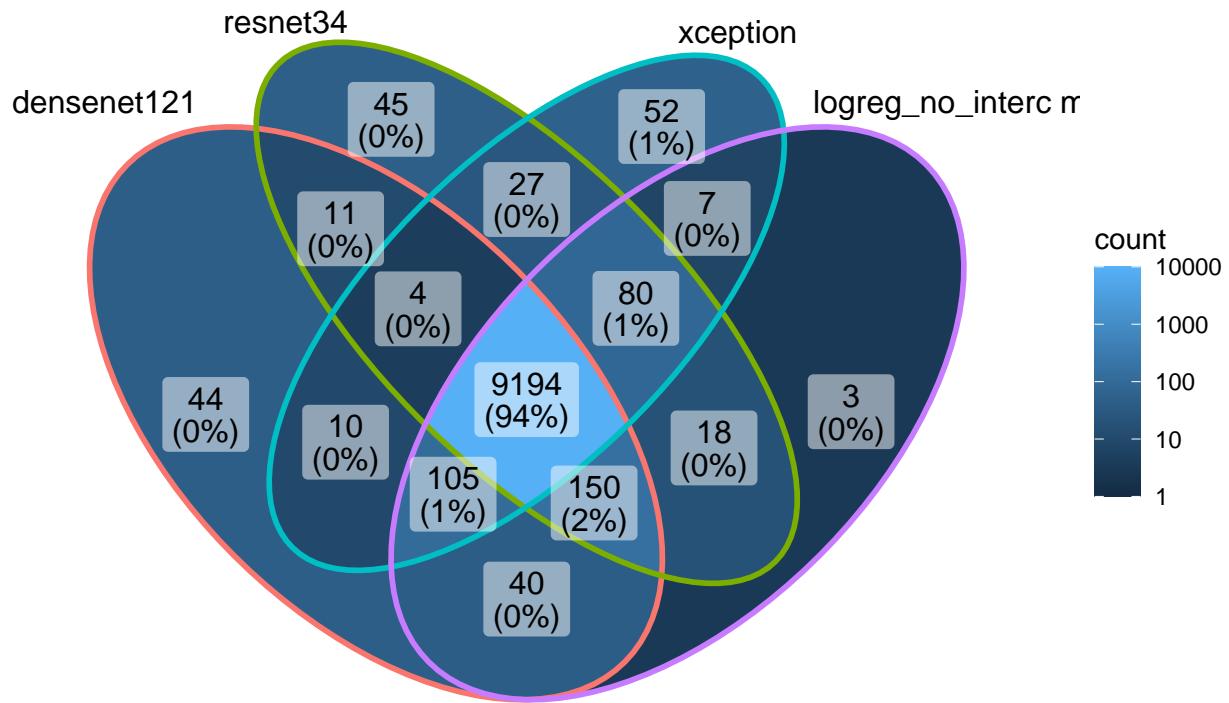


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tt – replication 21

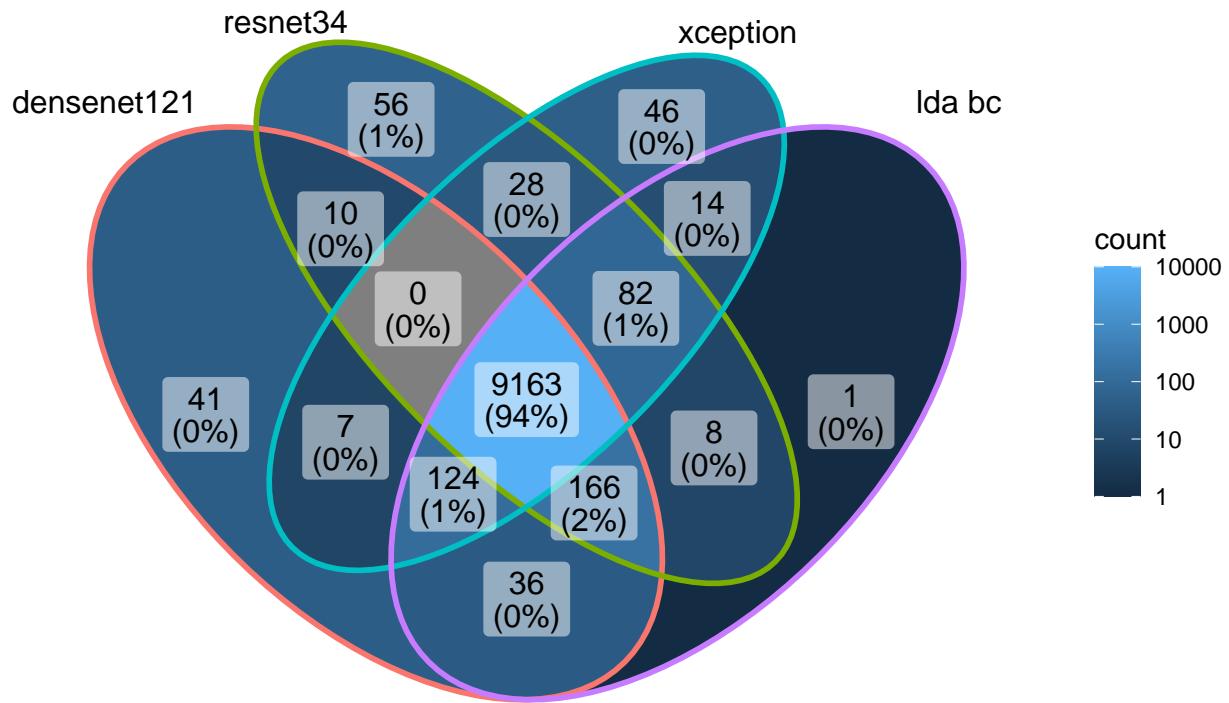


vt – replication 21

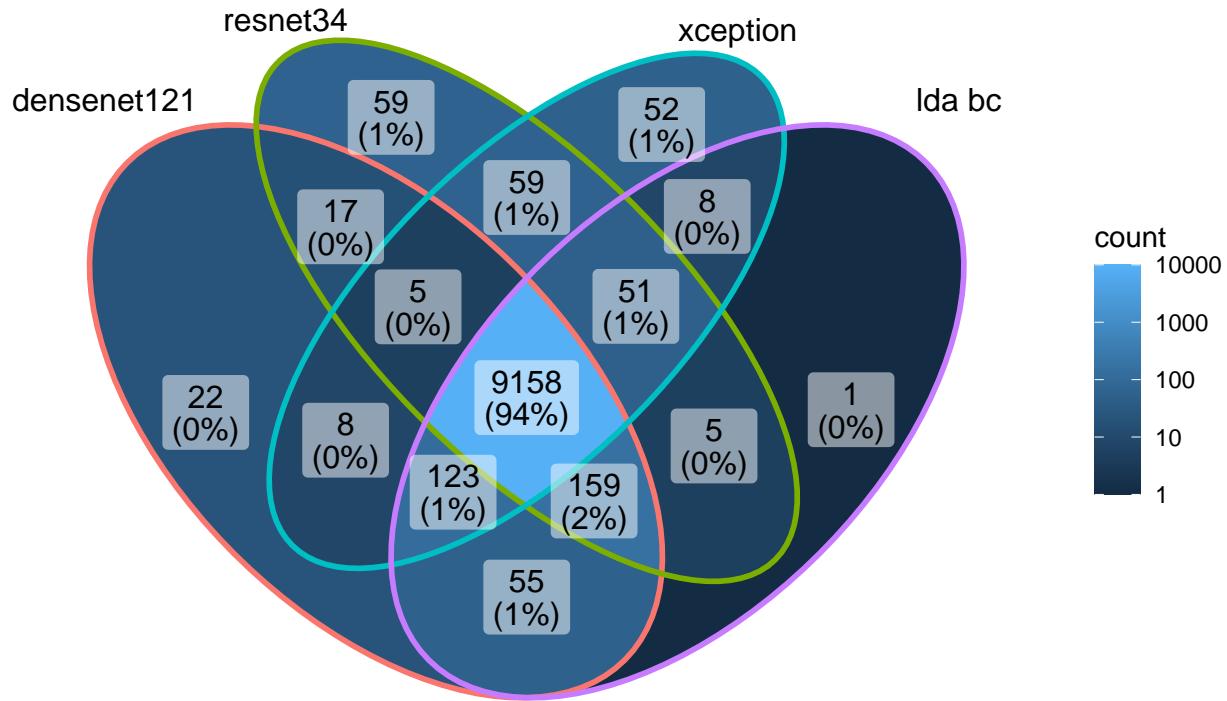


Warning: Transformation introduced infinite values in discrete y-axis

tt – replication 22

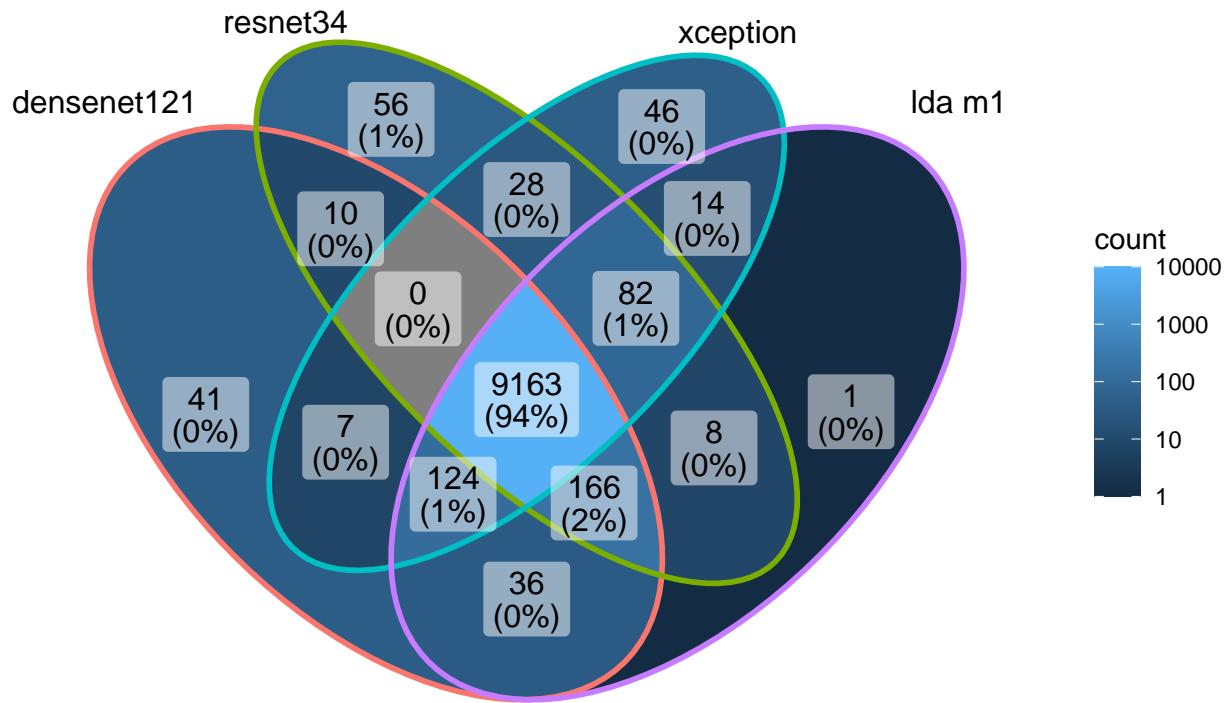


vt – replication 22

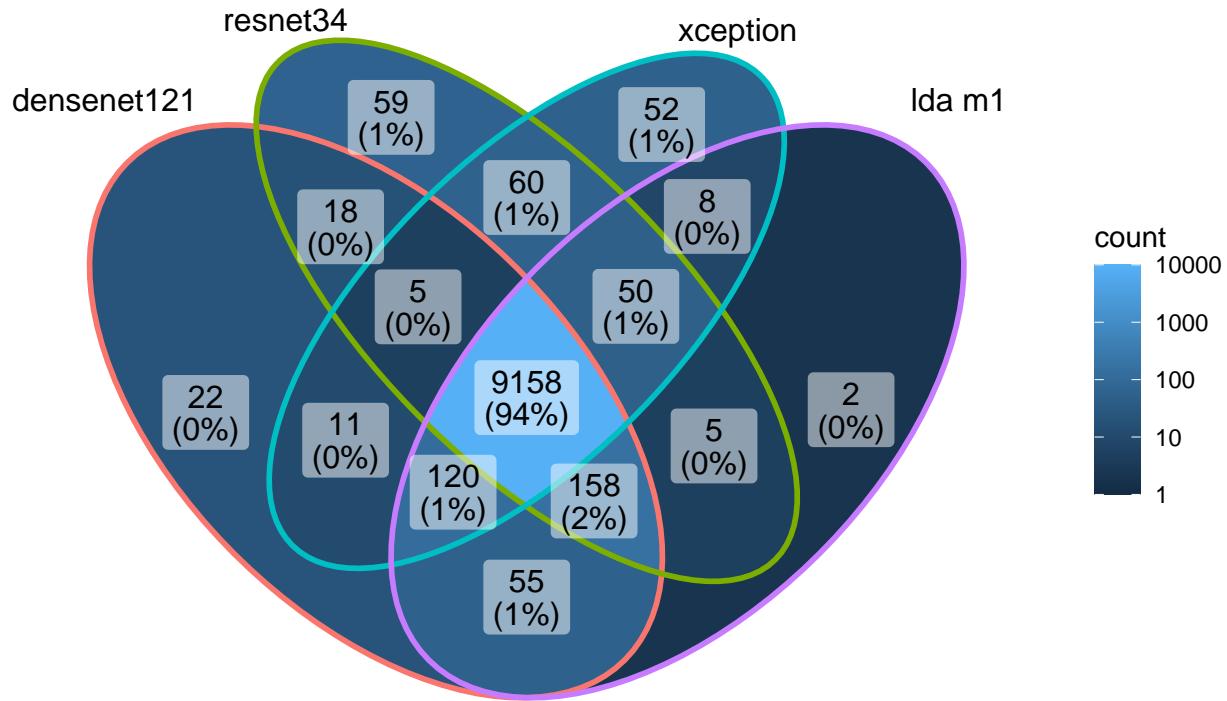


Warning: Transformation introduced infinite values in discrete y-axis

tt – replication 22

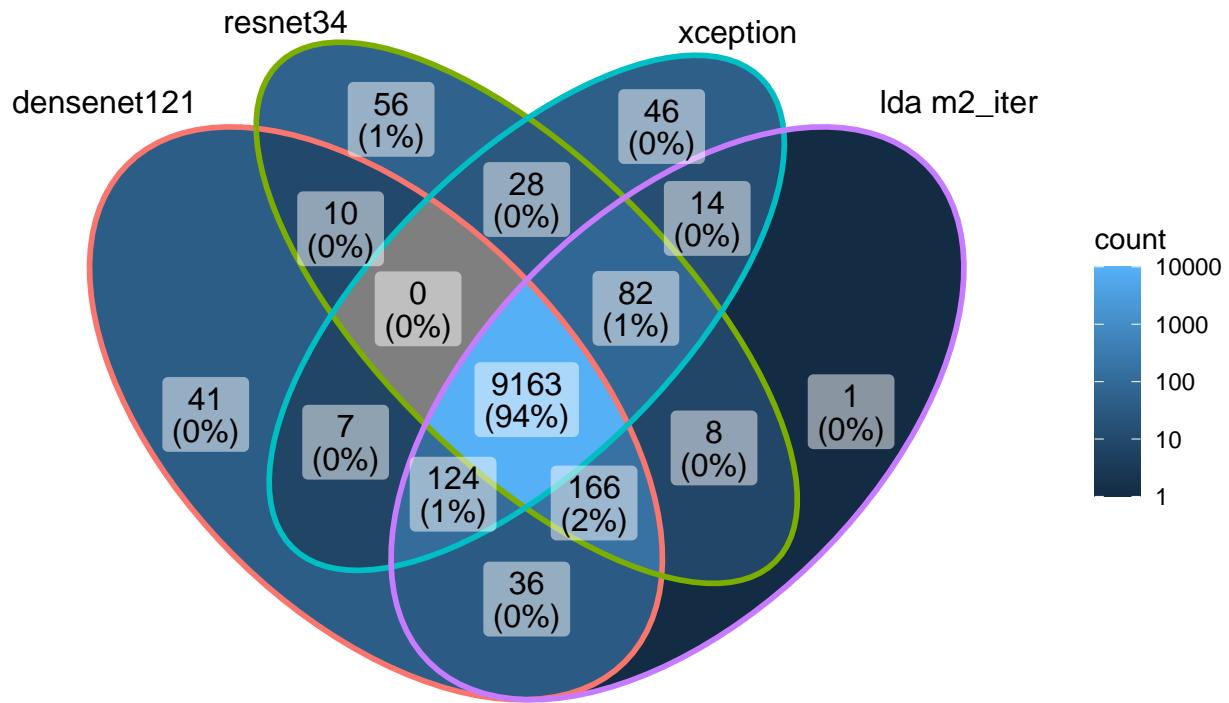


vt – replication 22



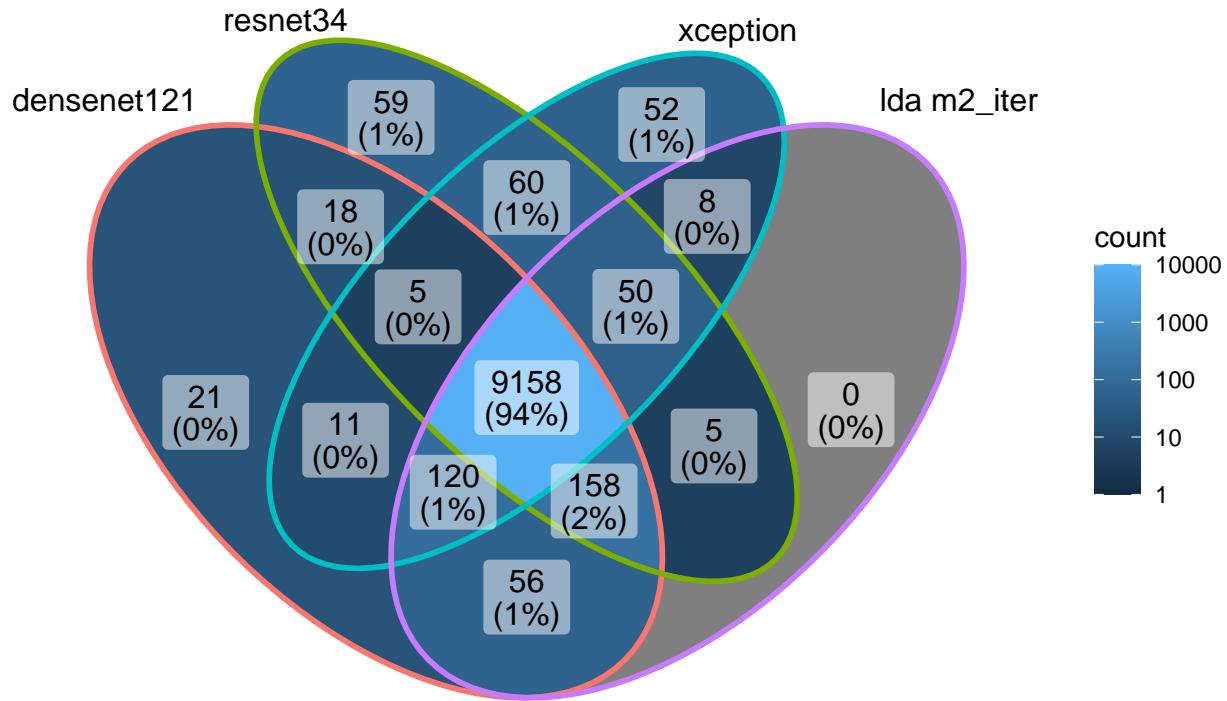
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tt – replication 22



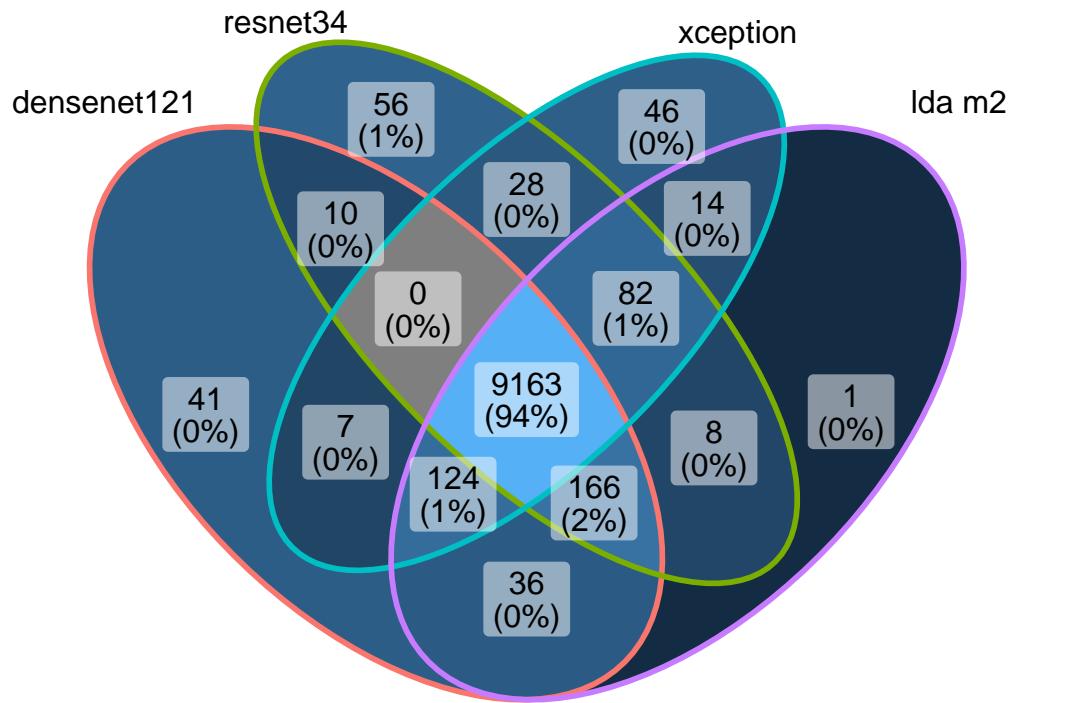
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vt – replication 22



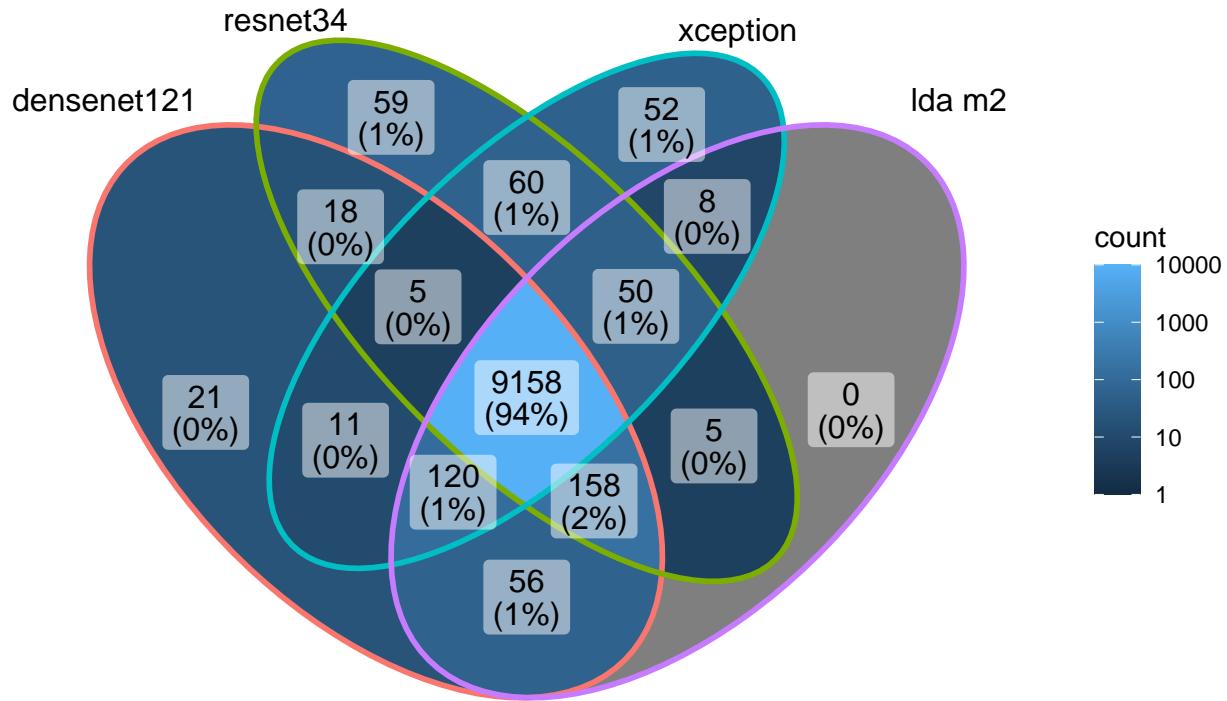
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tt – replication 22



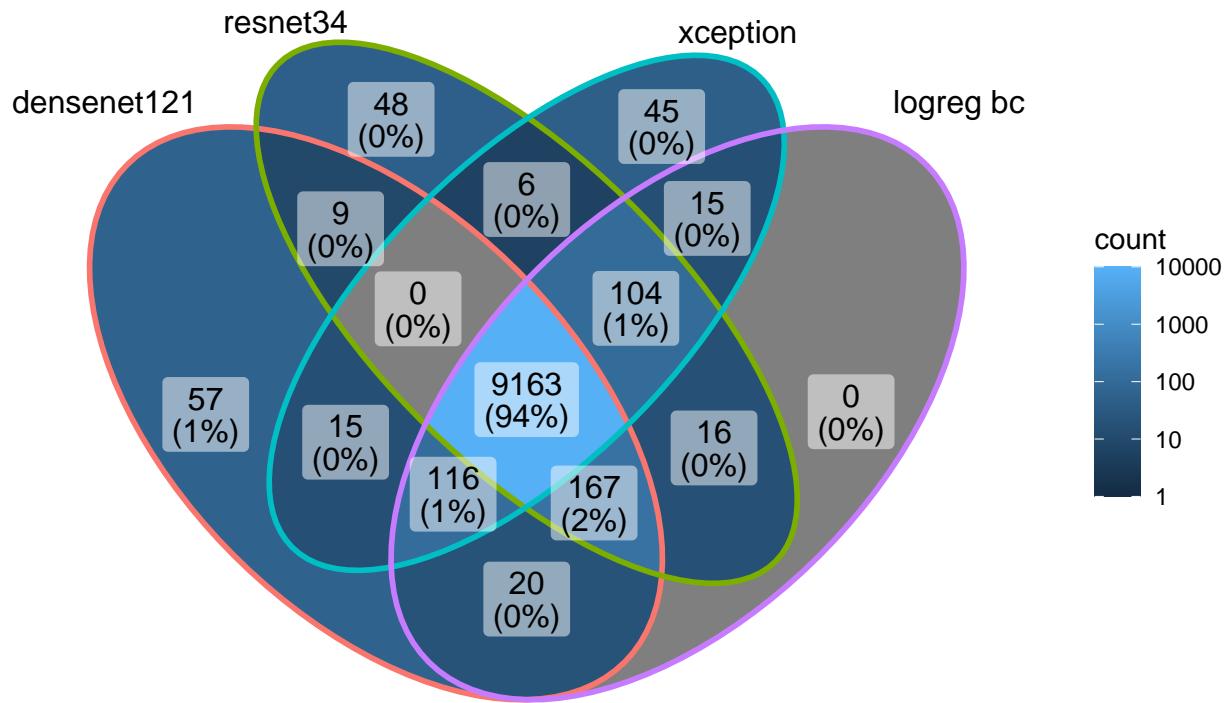
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vt – replication 22

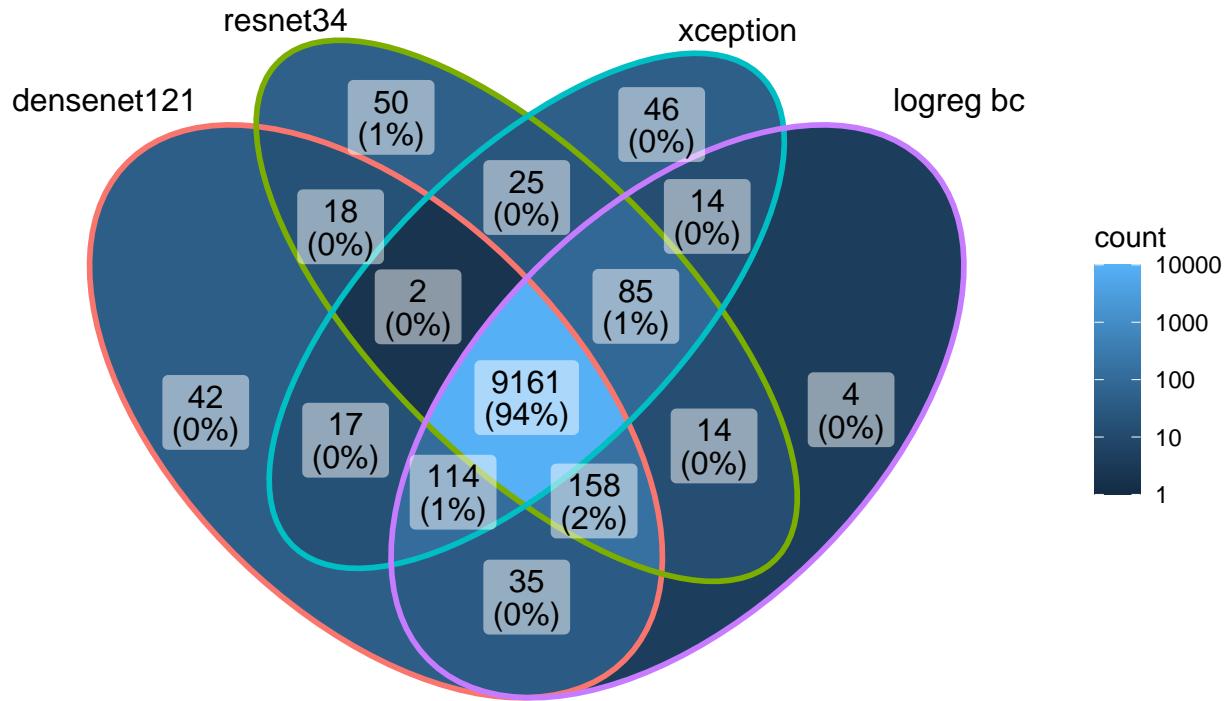


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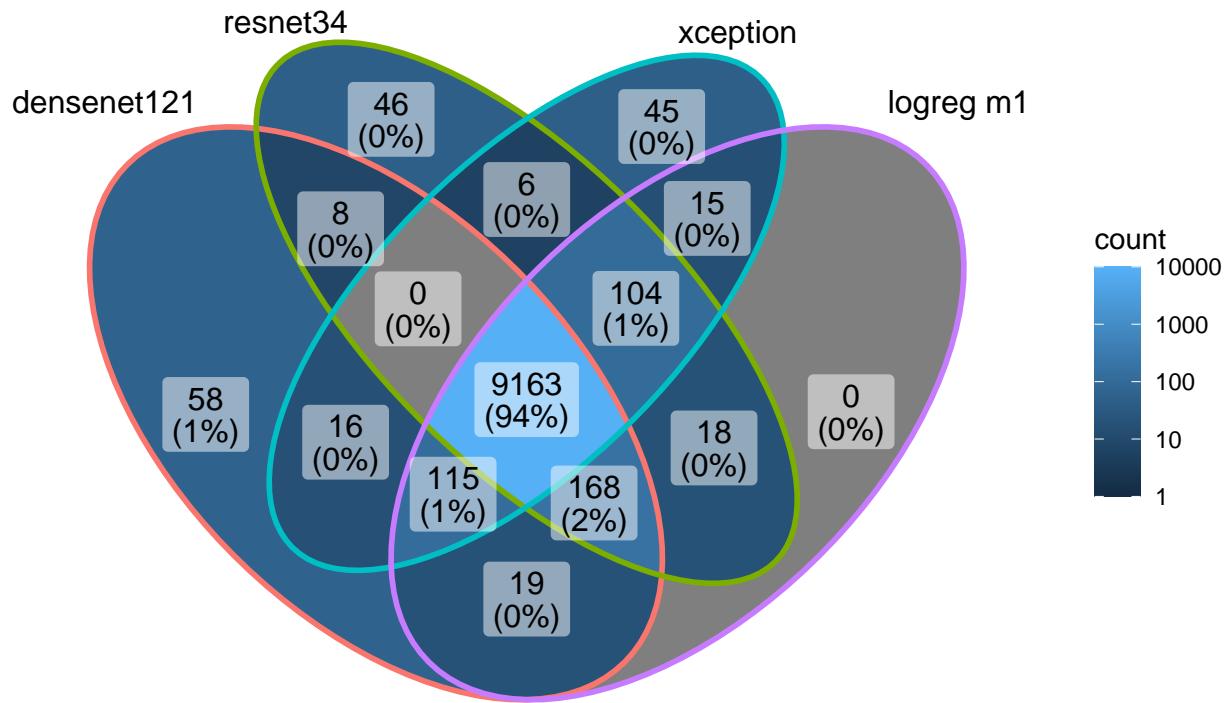


vt – replication 22

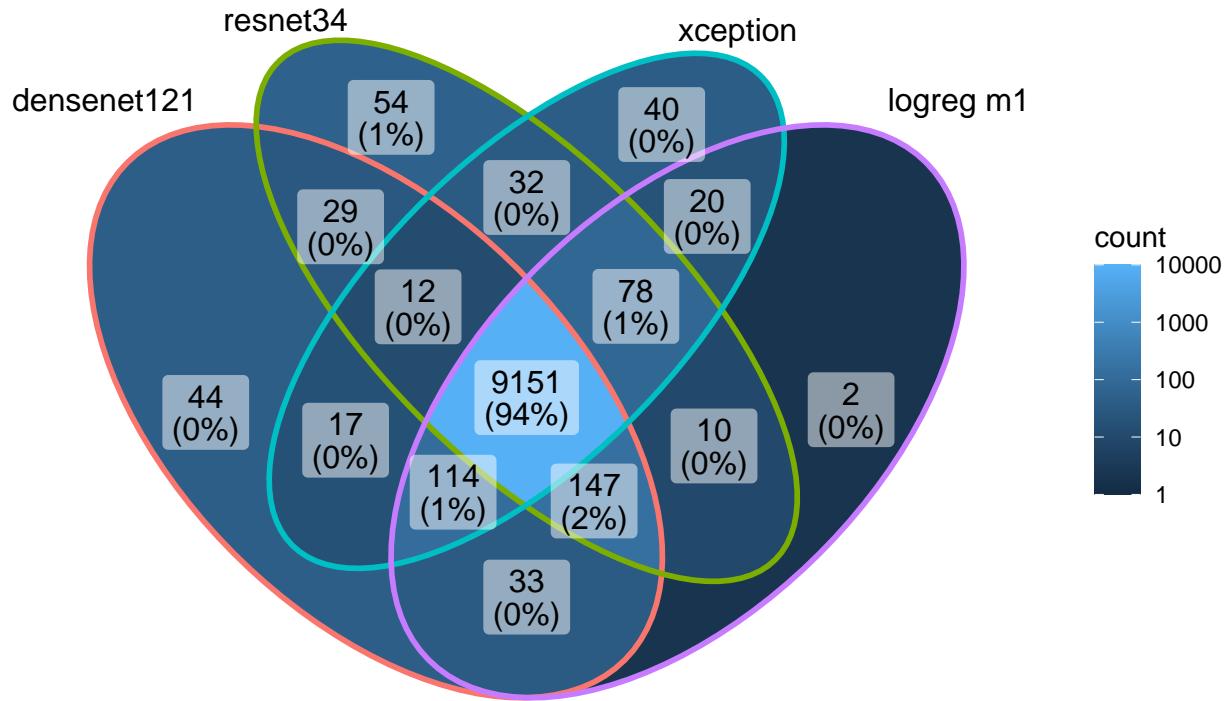


Warning: Transformation introduced infinite values in discrete y-axis

tt – replication 22

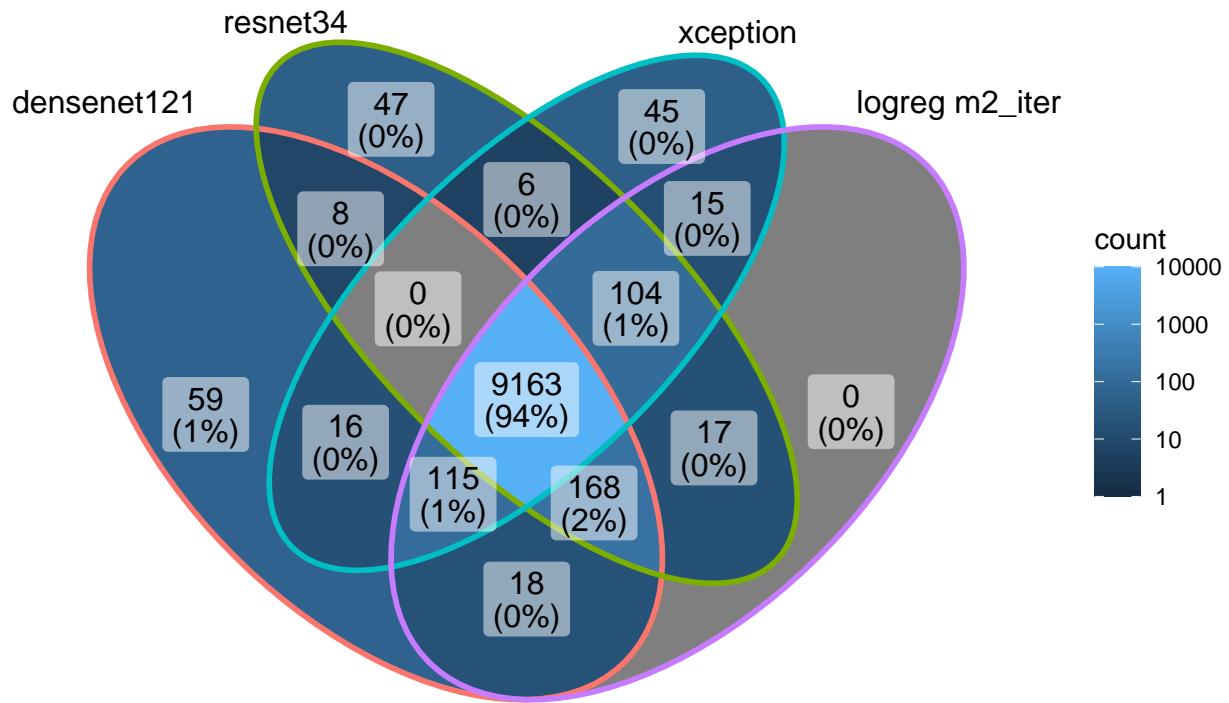


vt – replication 22

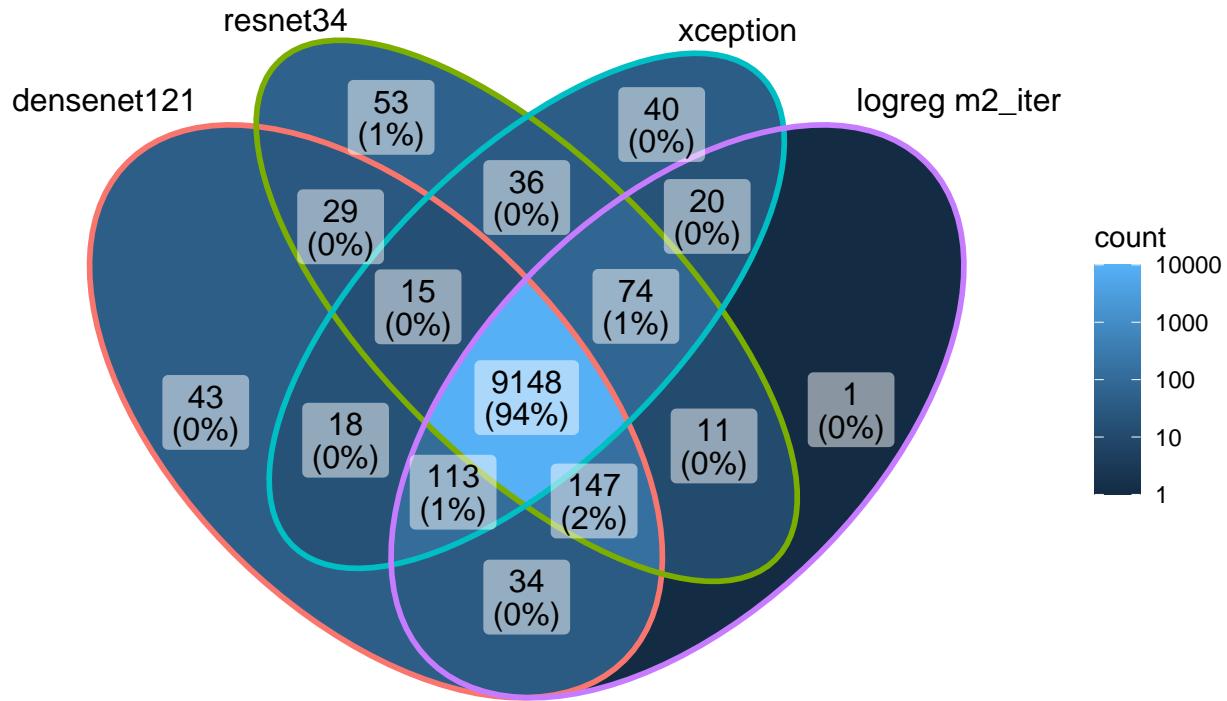


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tt – replication 22

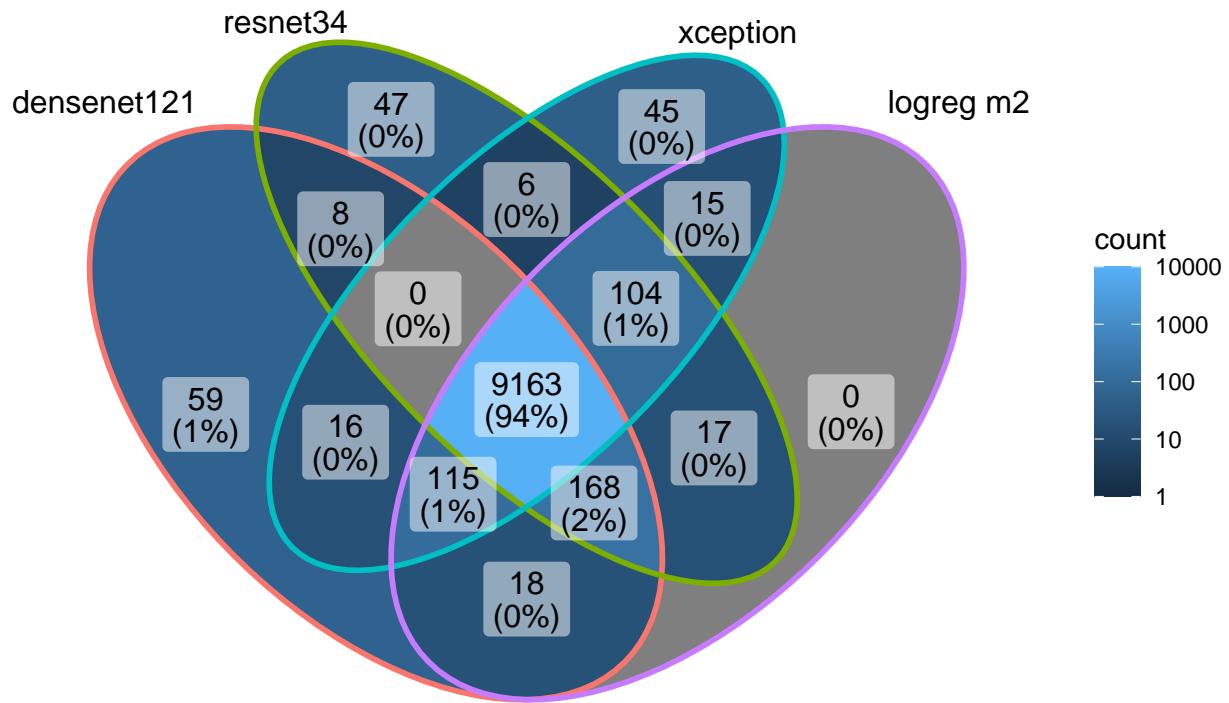


vt – replication 22

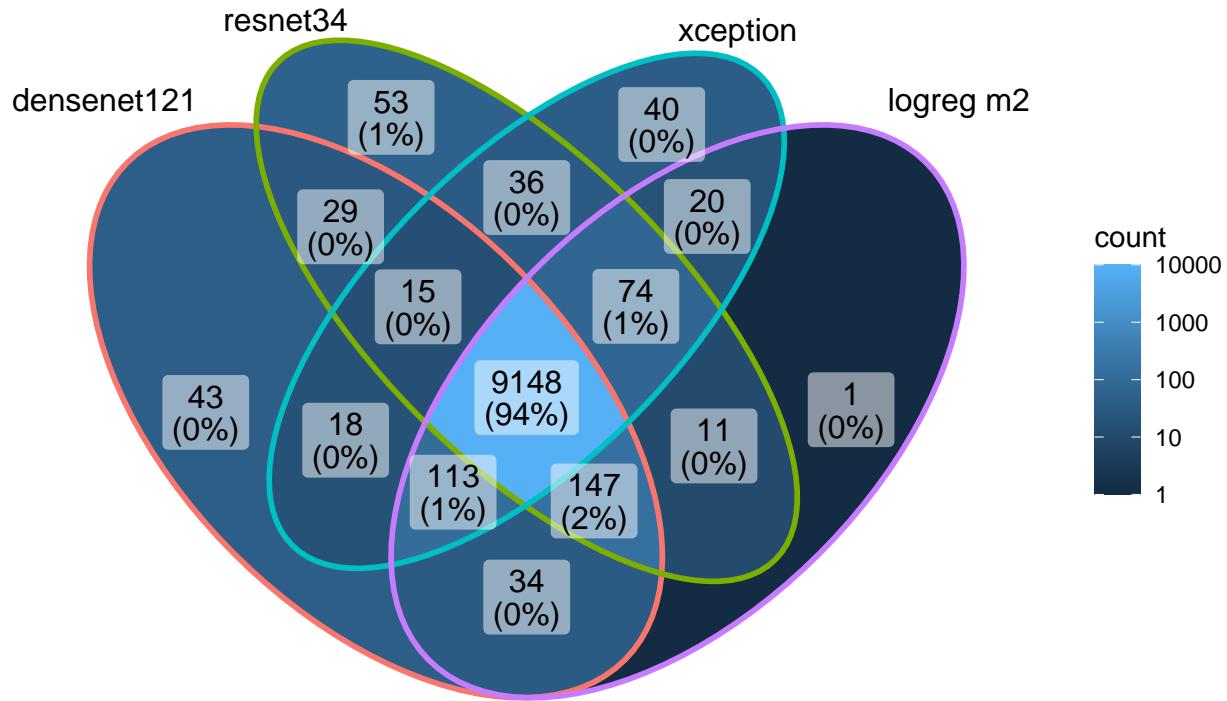


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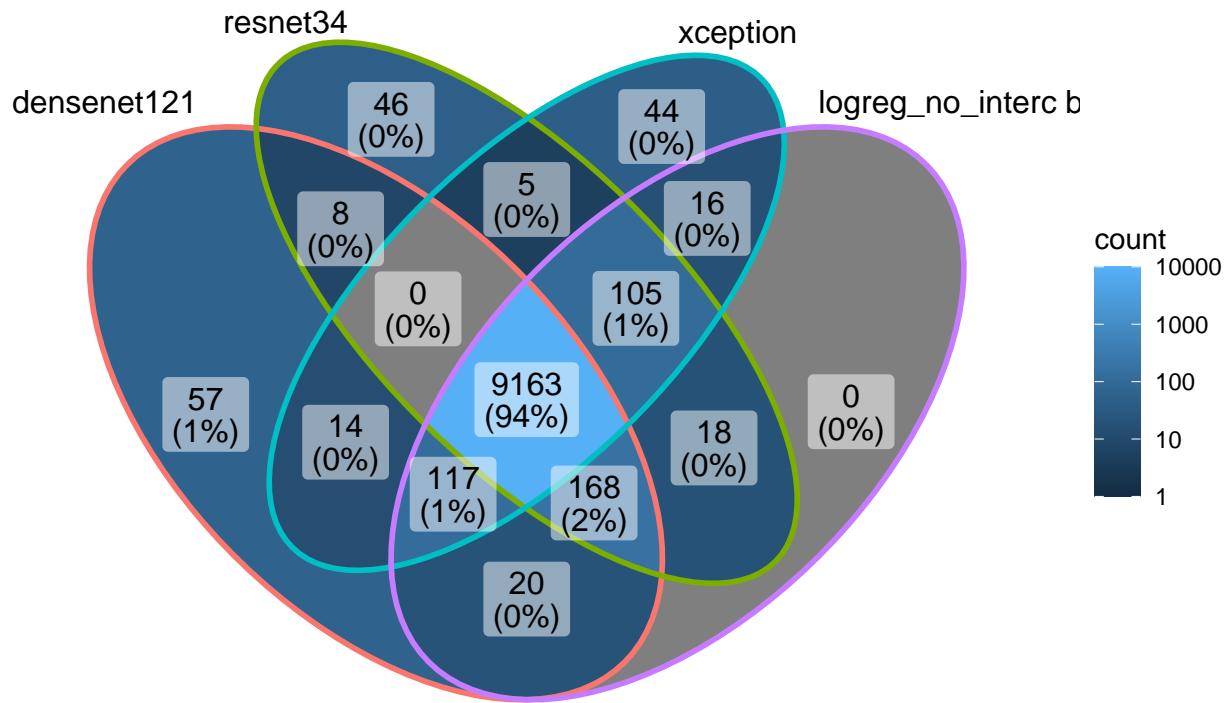


vt – replication 22

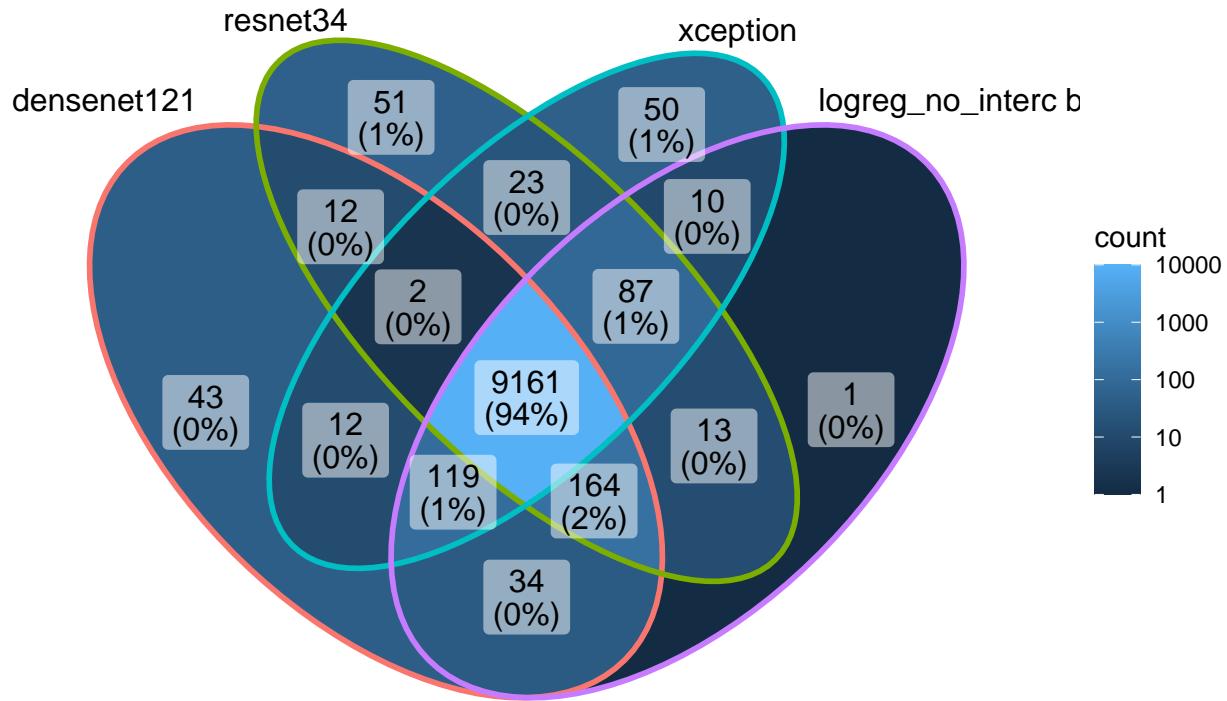


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tt – replication 22

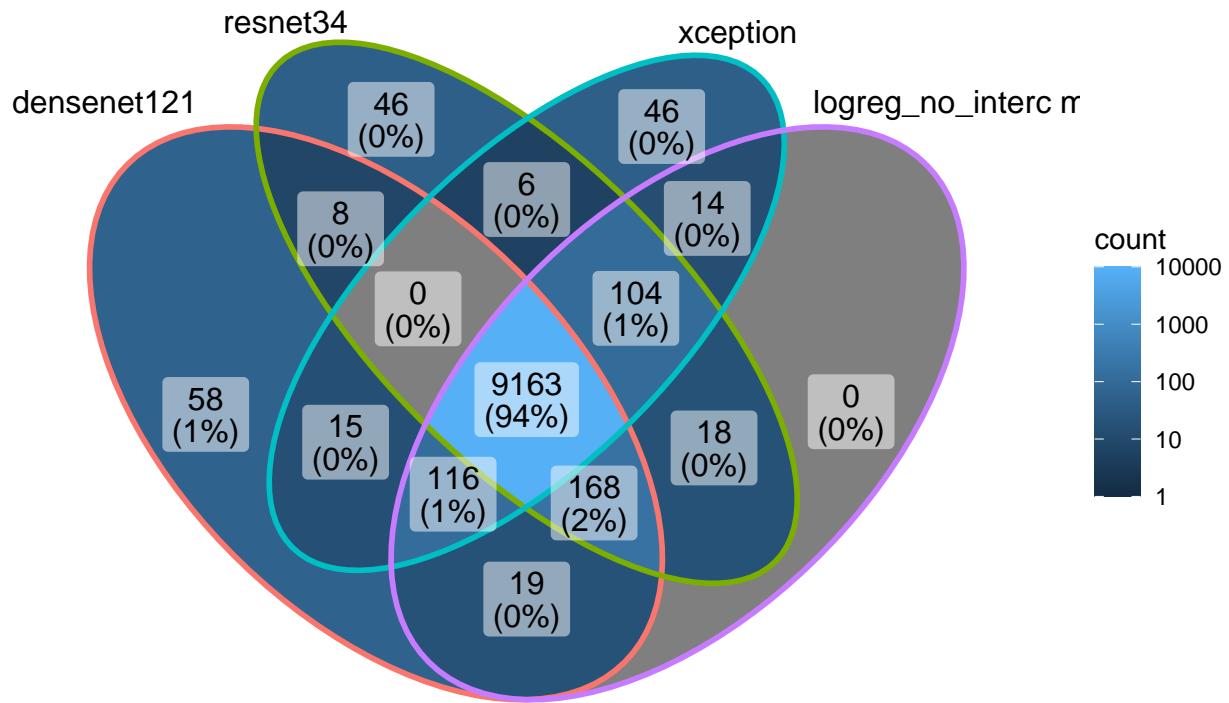


vt – replication 22

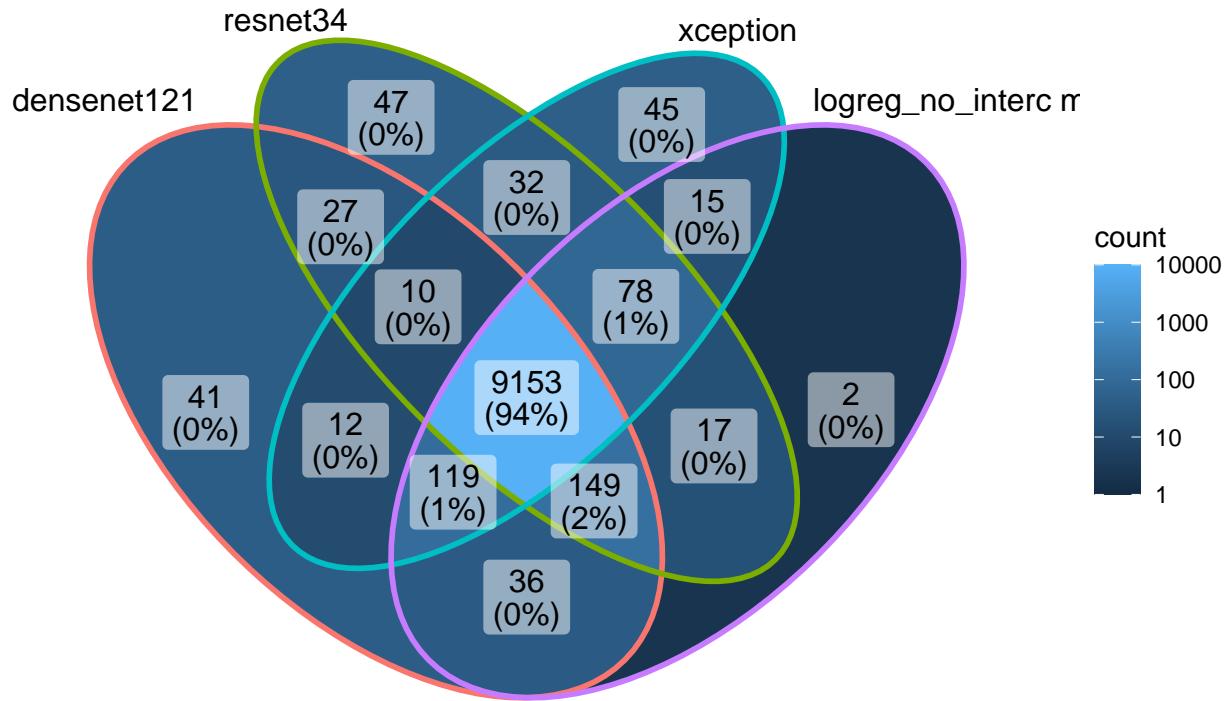


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tt – replication 22

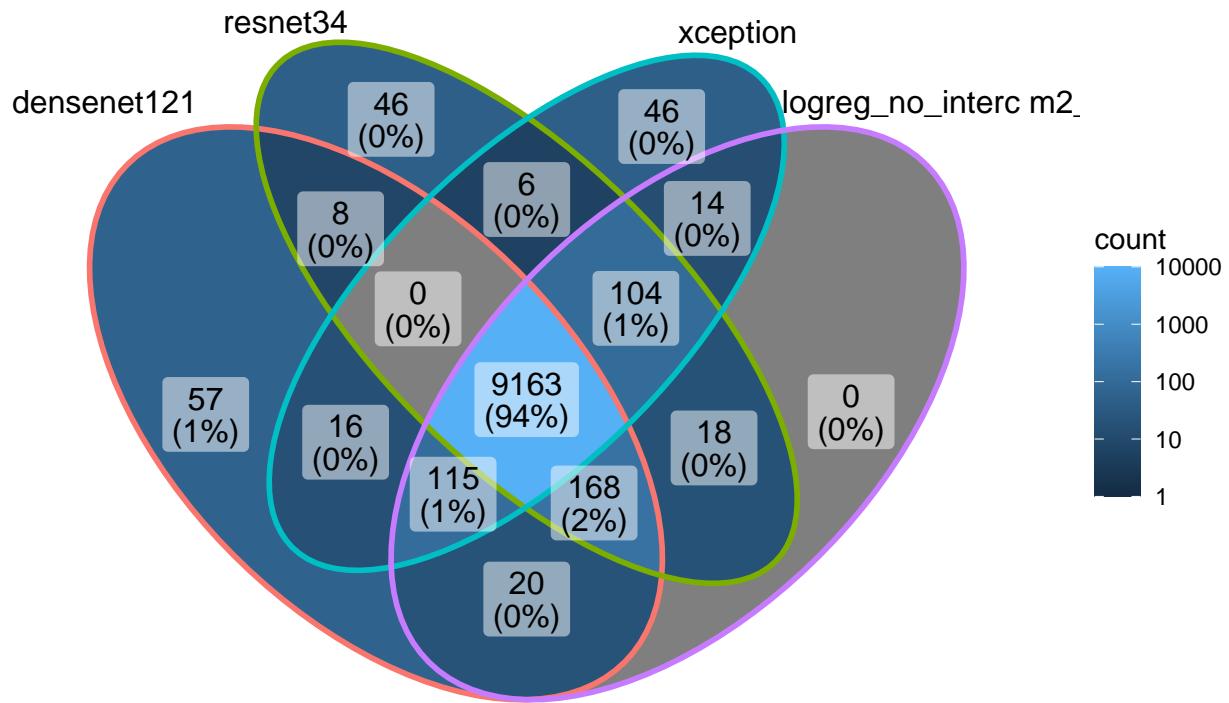


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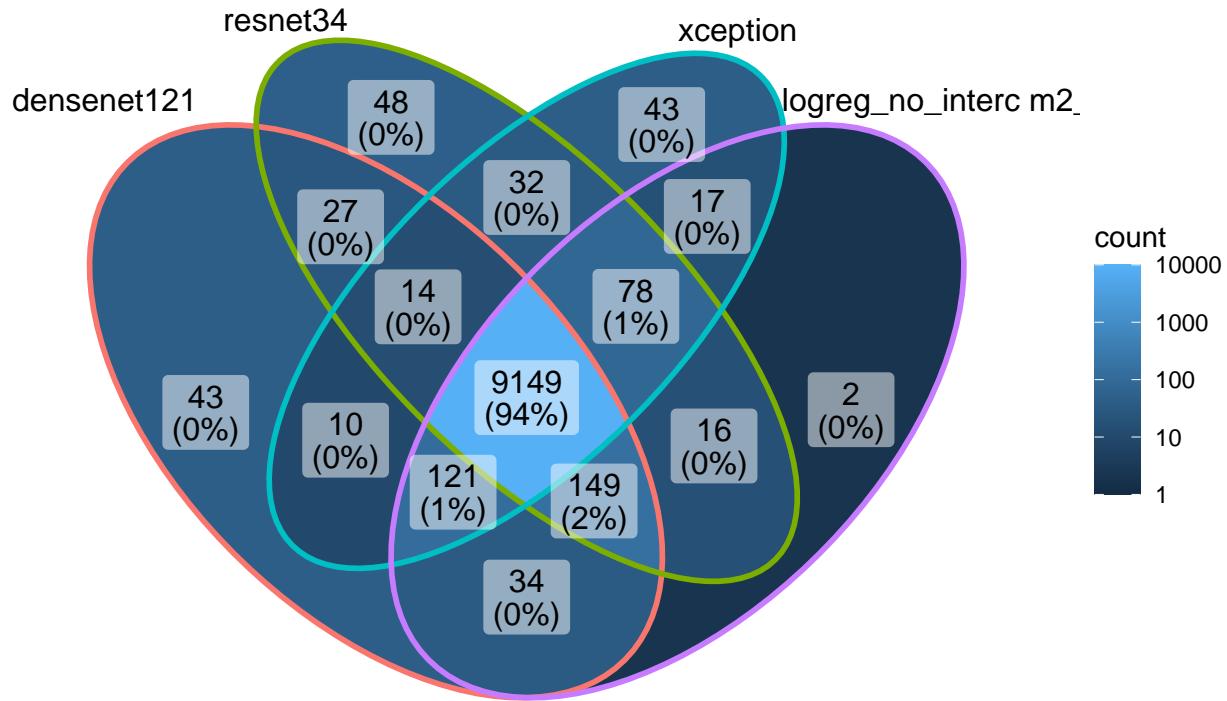


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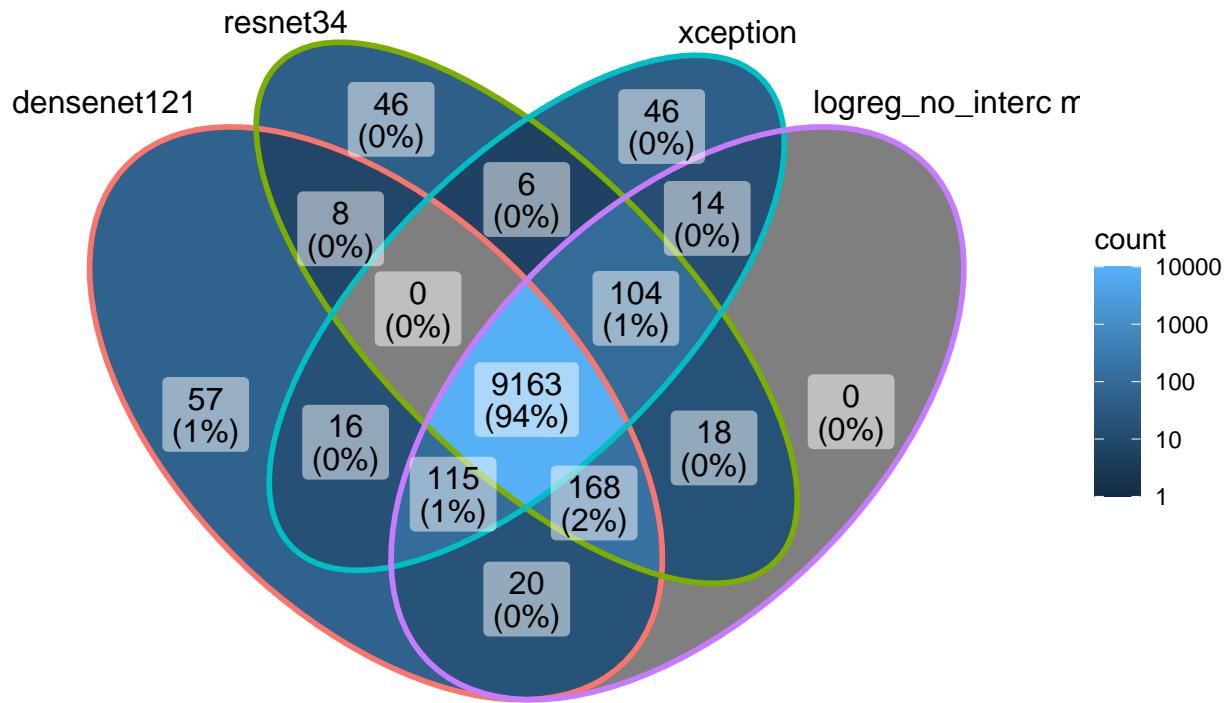


vt – replication 22

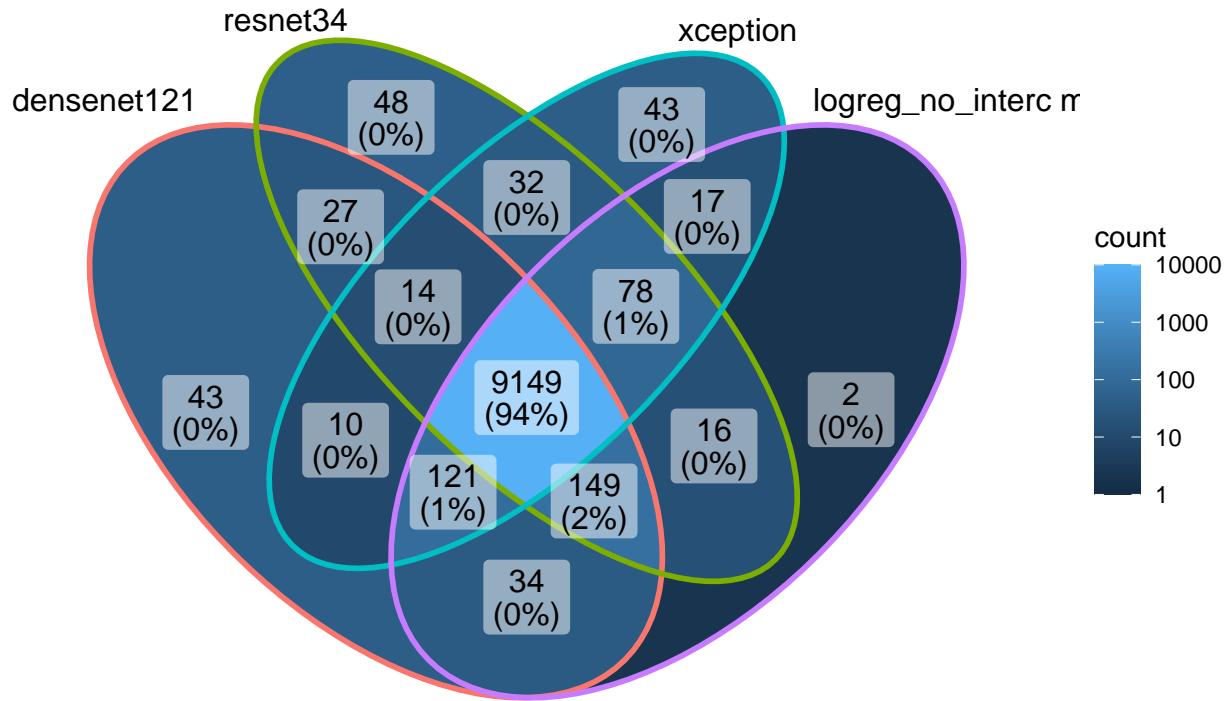


Warning: Transformation introduced infinite values in discrete y-axis

tt – replication 22

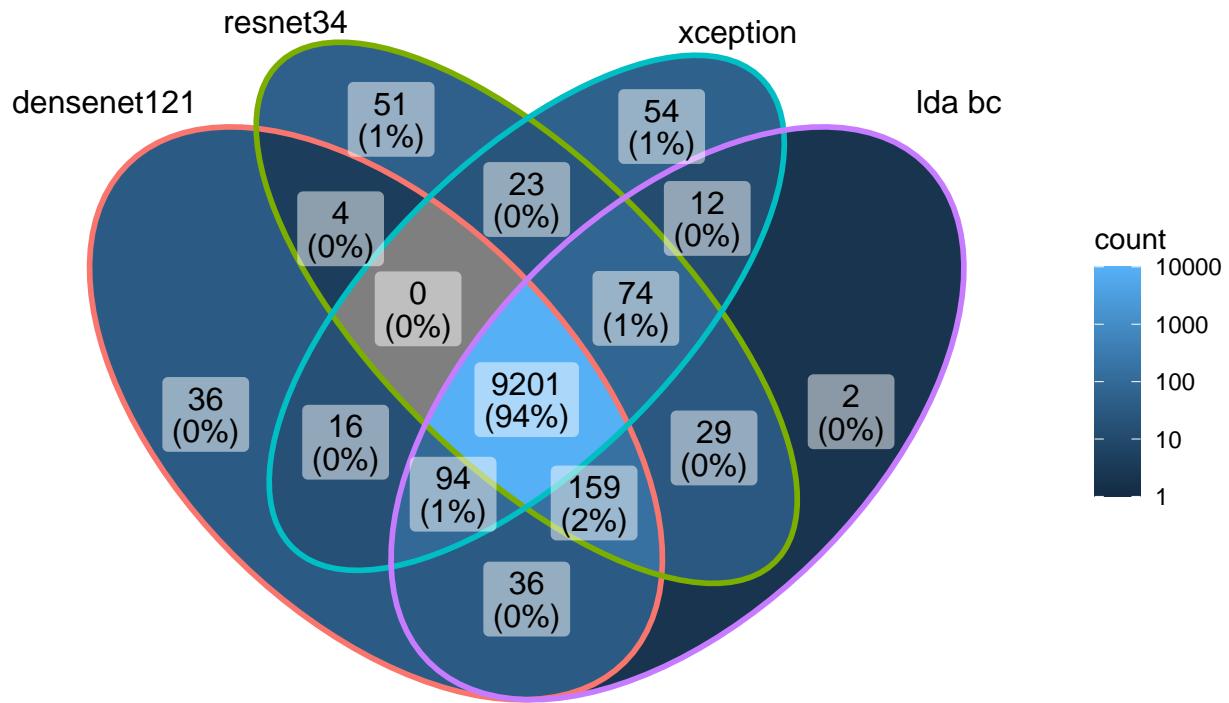


vt – replication 22

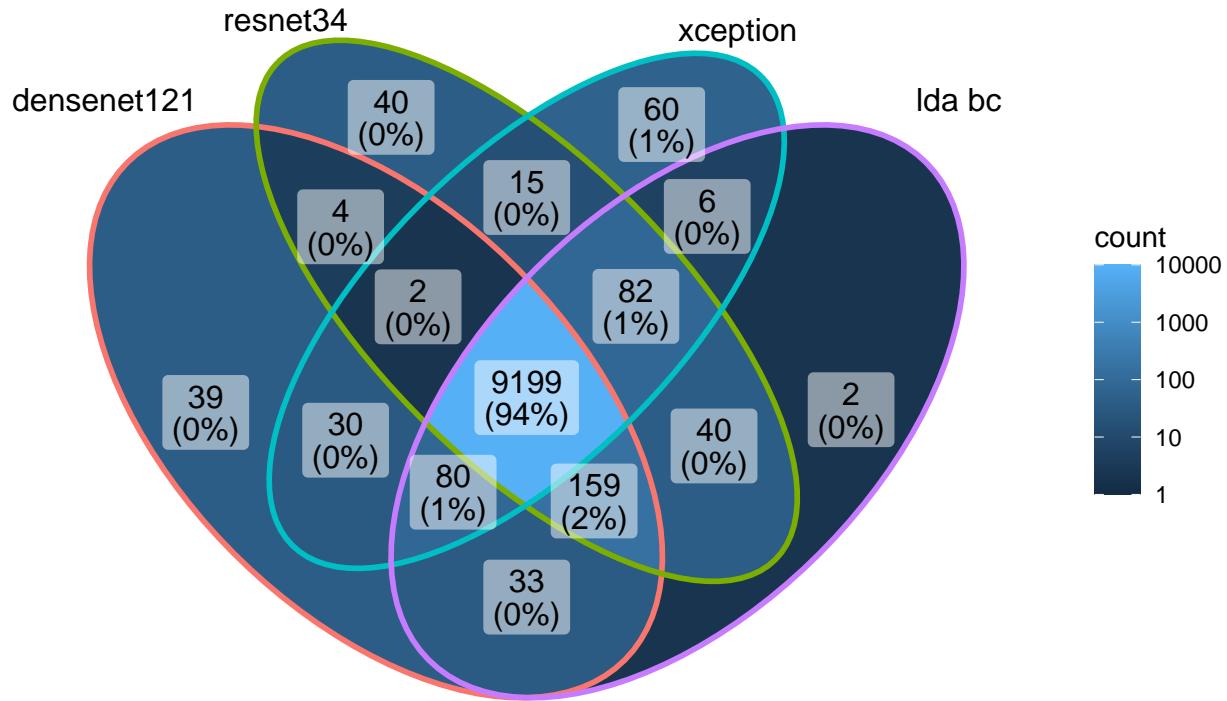


Warning: Transformation introduced infinite values in discrete y-axis

tt – replication 23

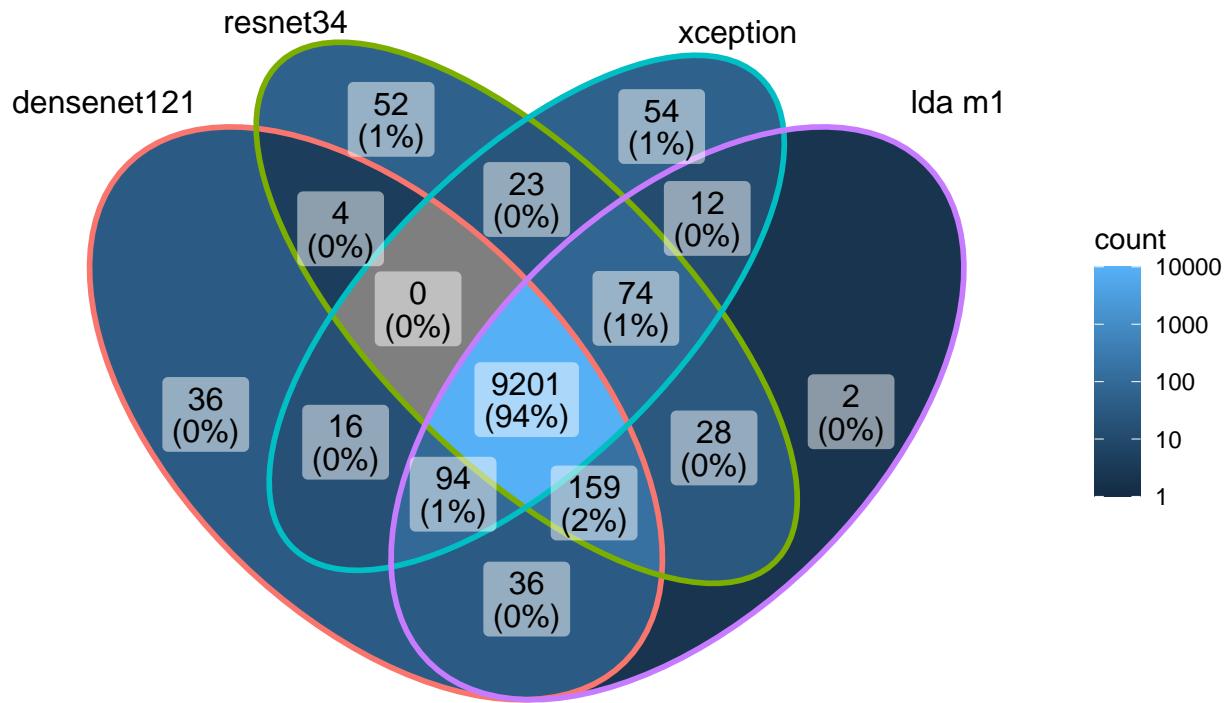


vt – replication 23



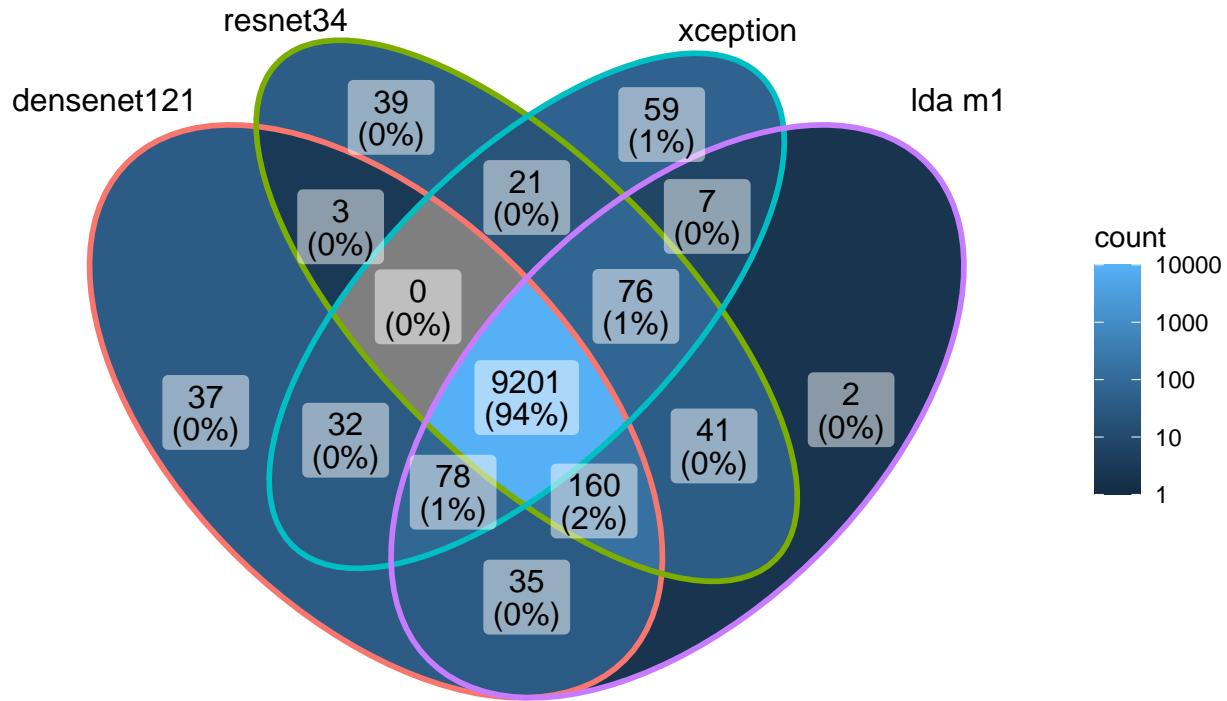
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tt – replication 23



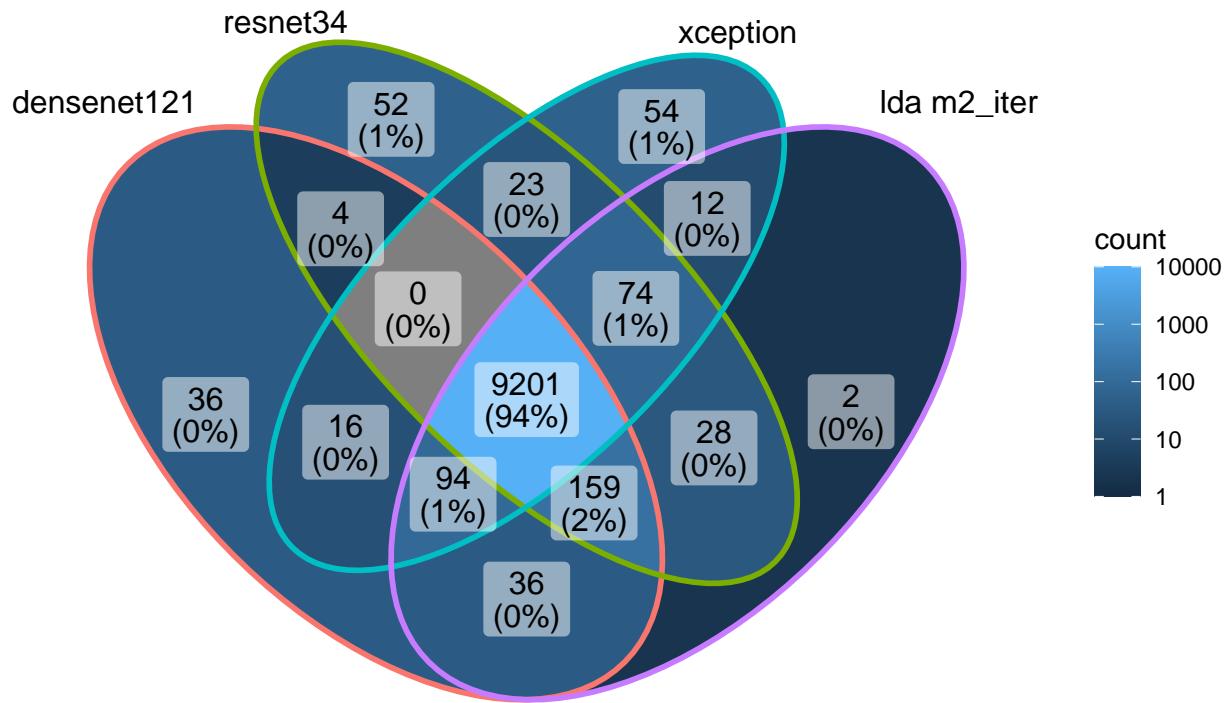
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vt – replication 23



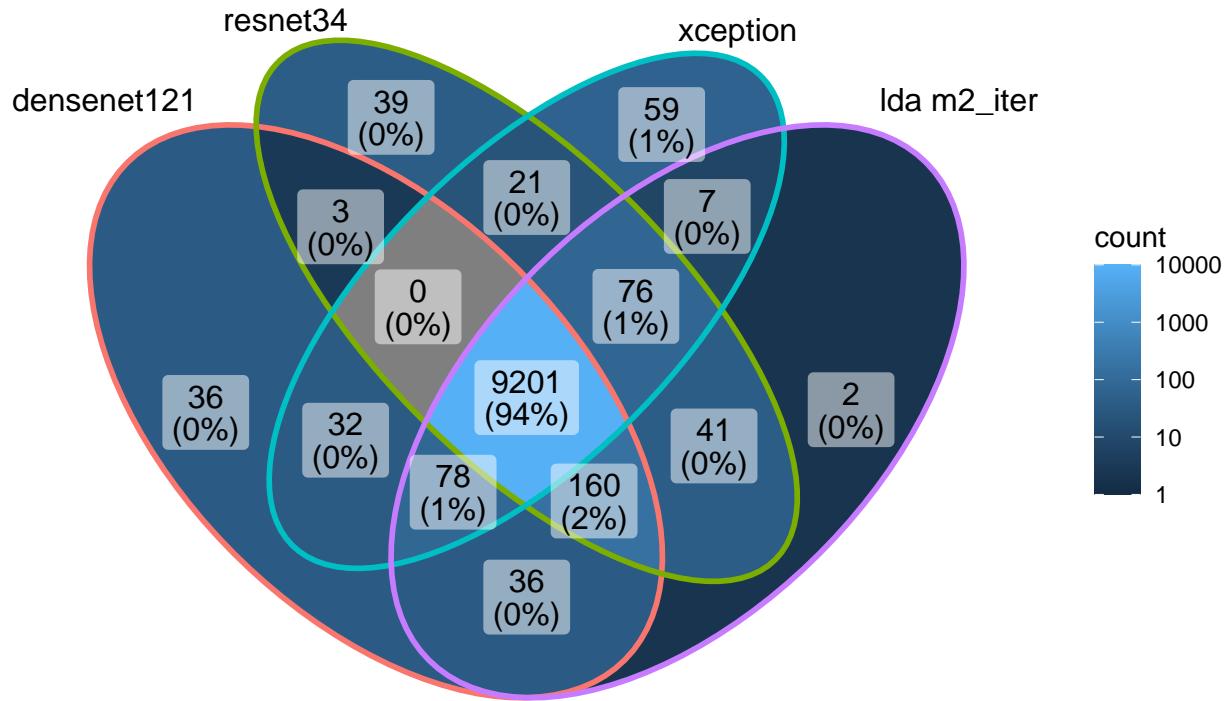
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tt – replication 23



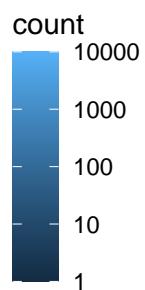
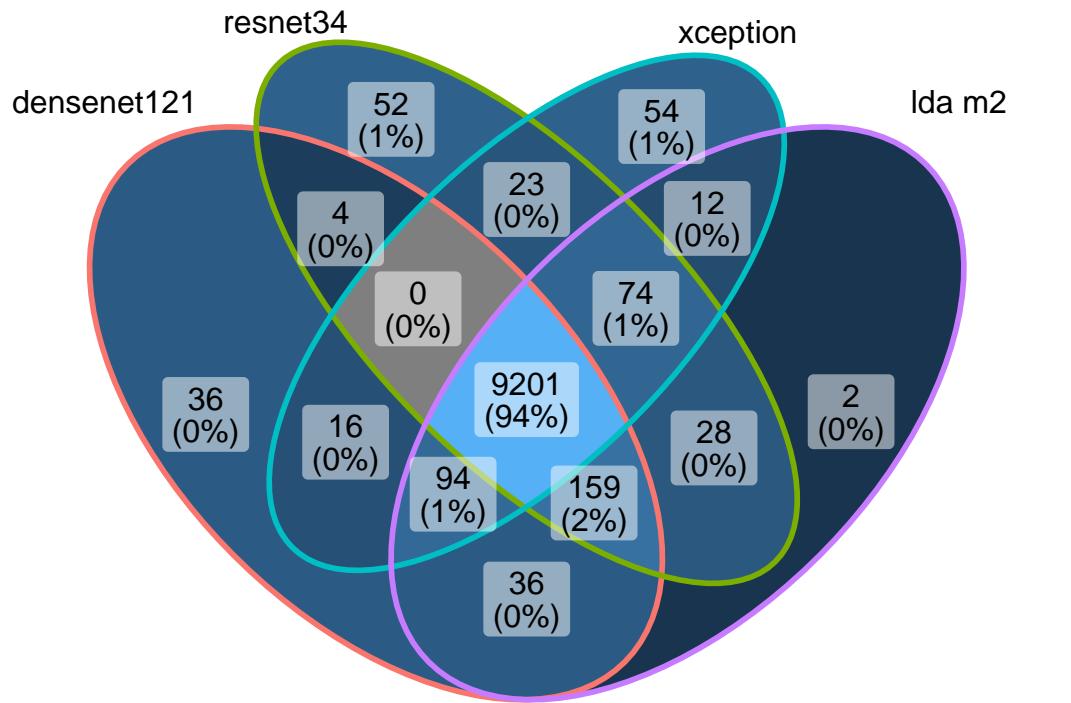
Warning: Transformation introduced infinite values in discrete y-axis

vt – replication 23



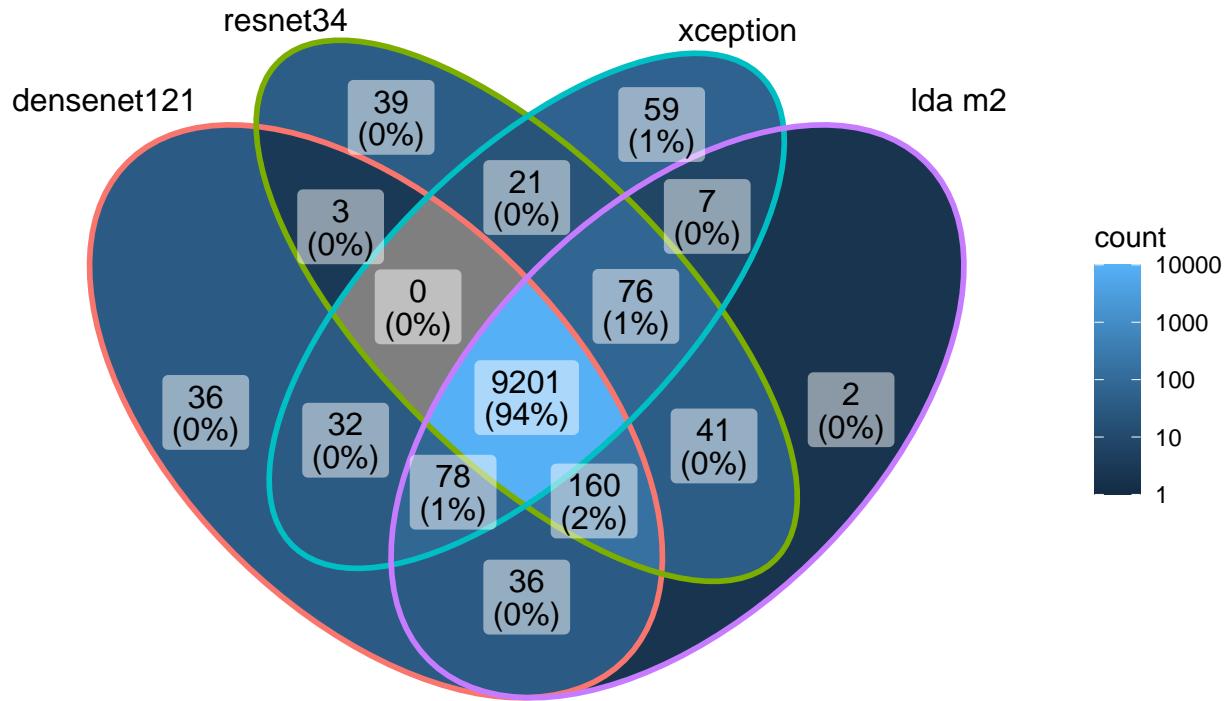
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tt – replication 23



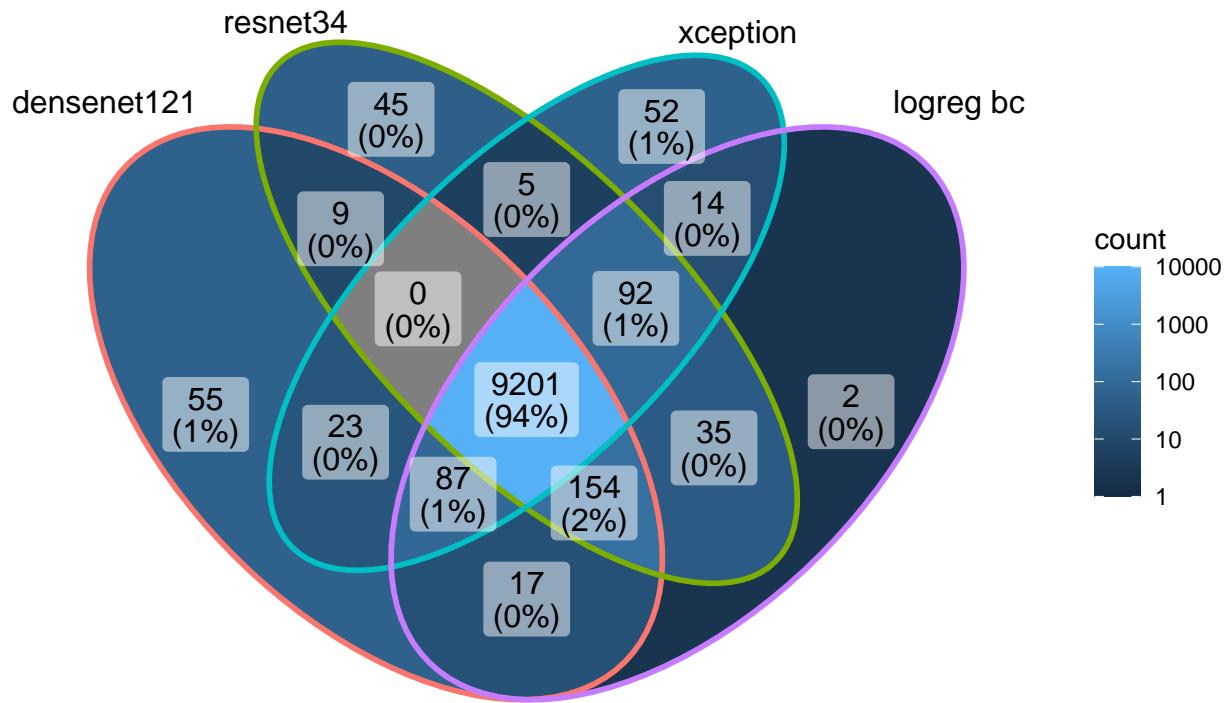
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vt – replication 23

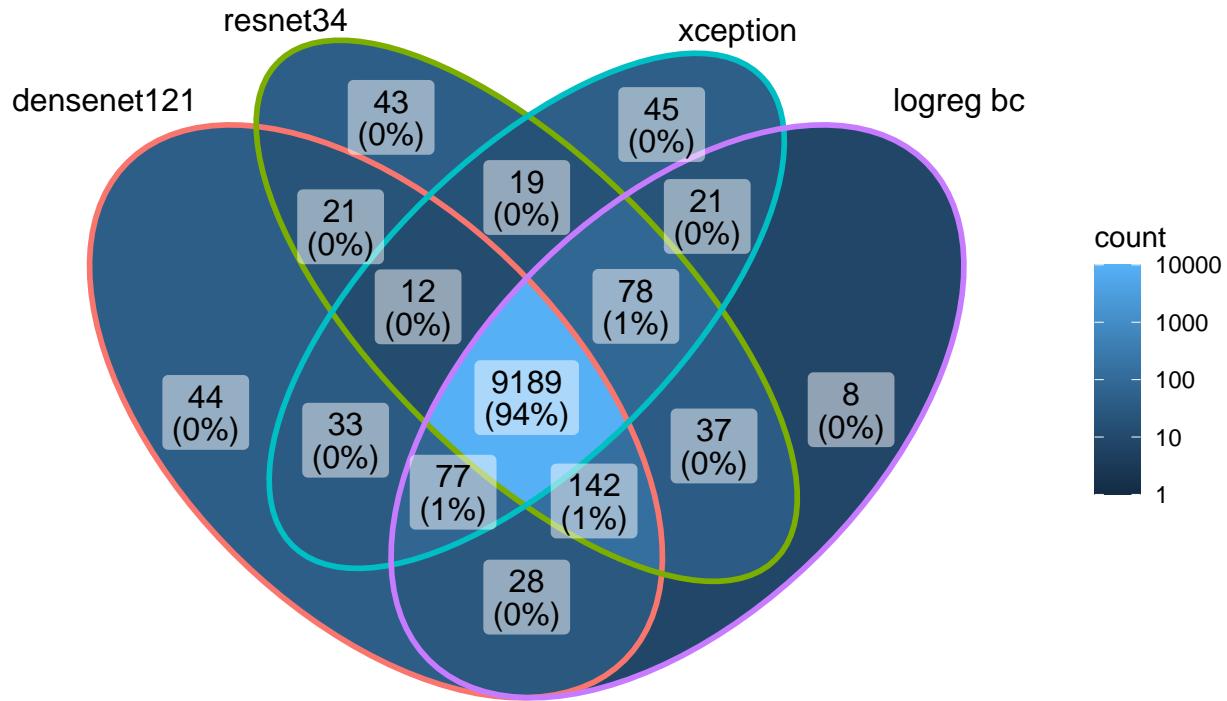


Warning: Transformation introduced infinite values in discrete y-axis

tt – replication 23

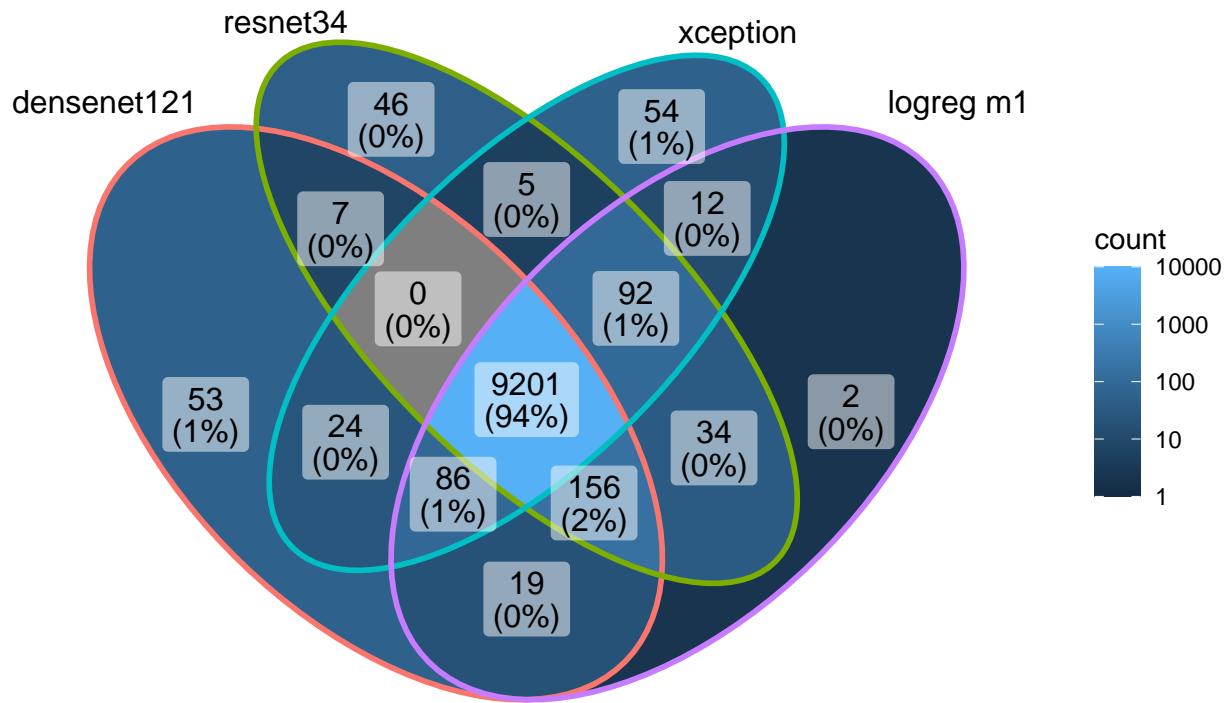


vt – replication 23

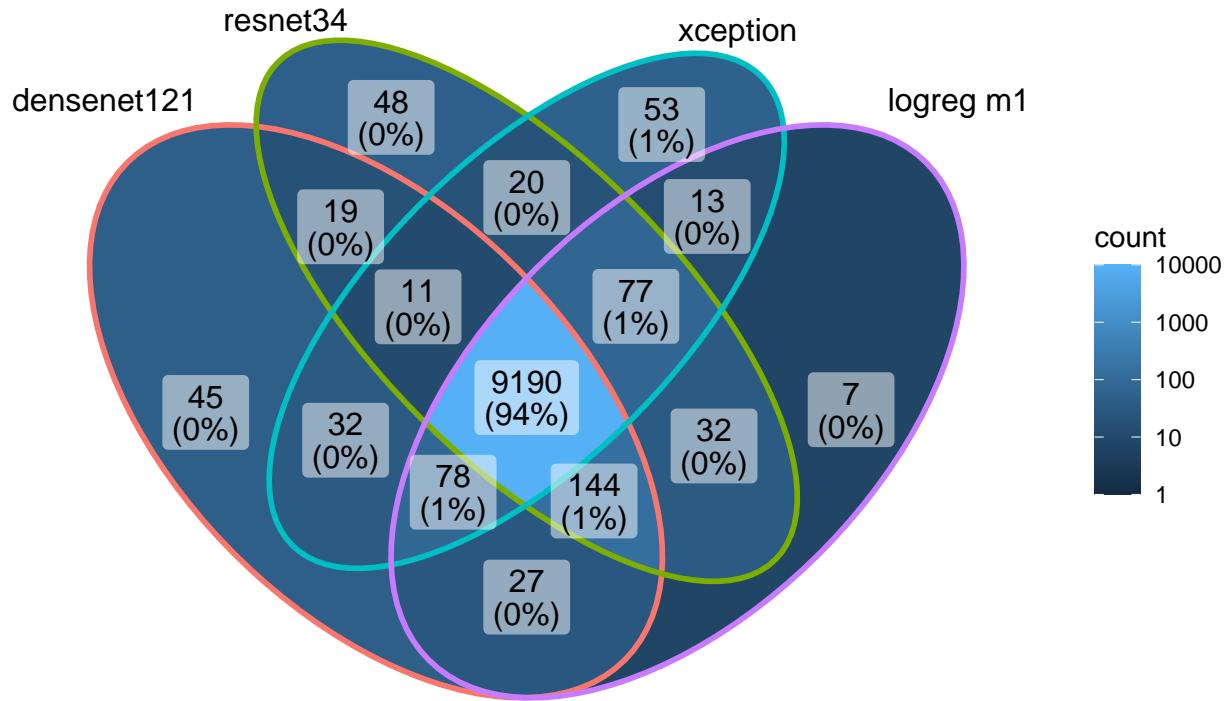


Warning: Transformation introduced infinite values in discrete y-axis

tt – replication 23

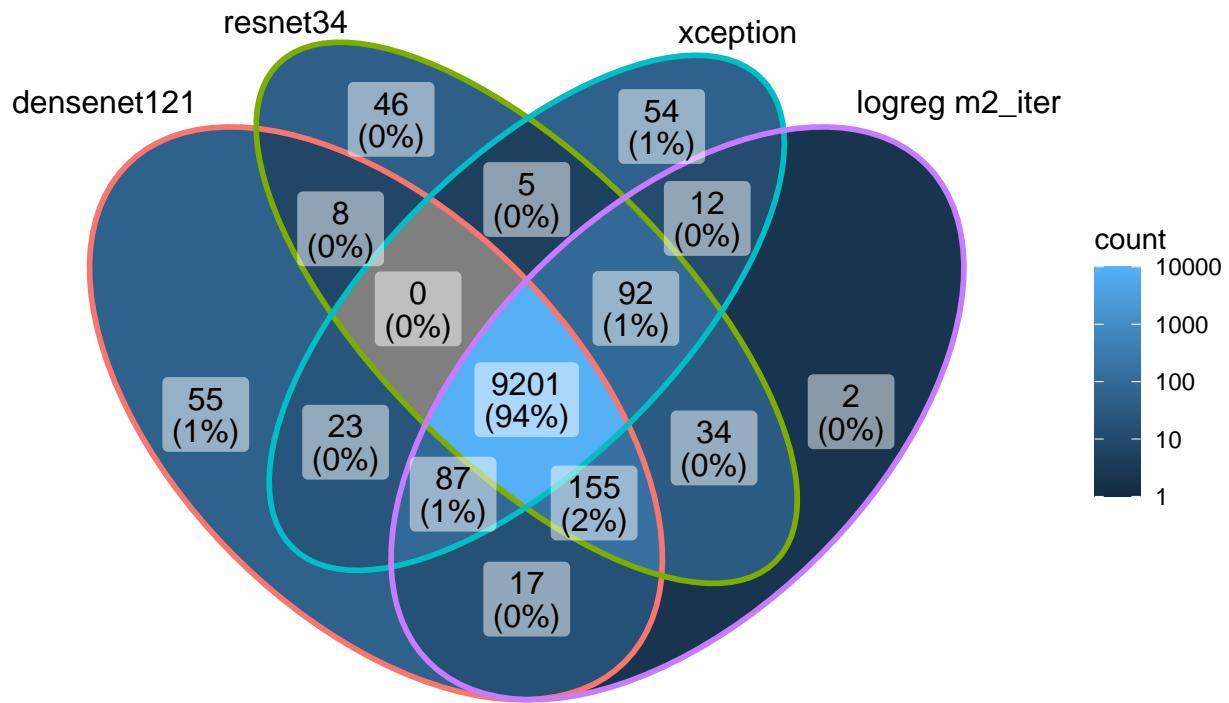


vt – replication 23

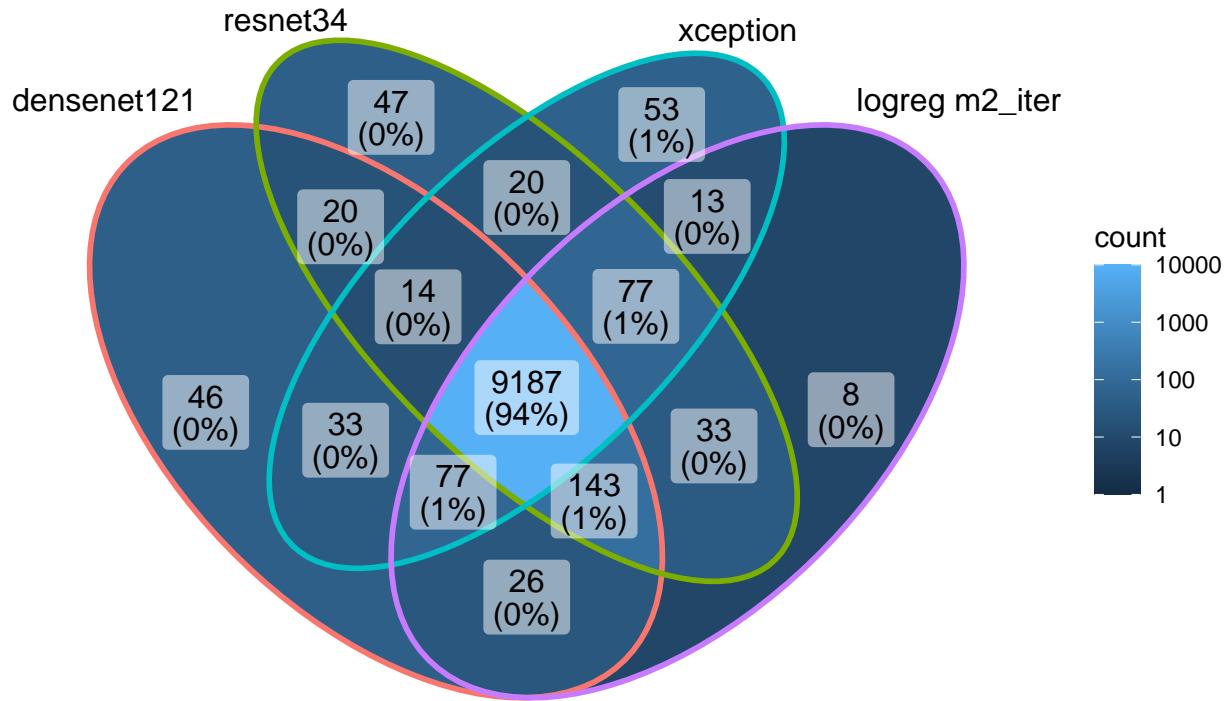


Warning: Transformation introduced infinite values in discrete y-axis

tt – replication 23

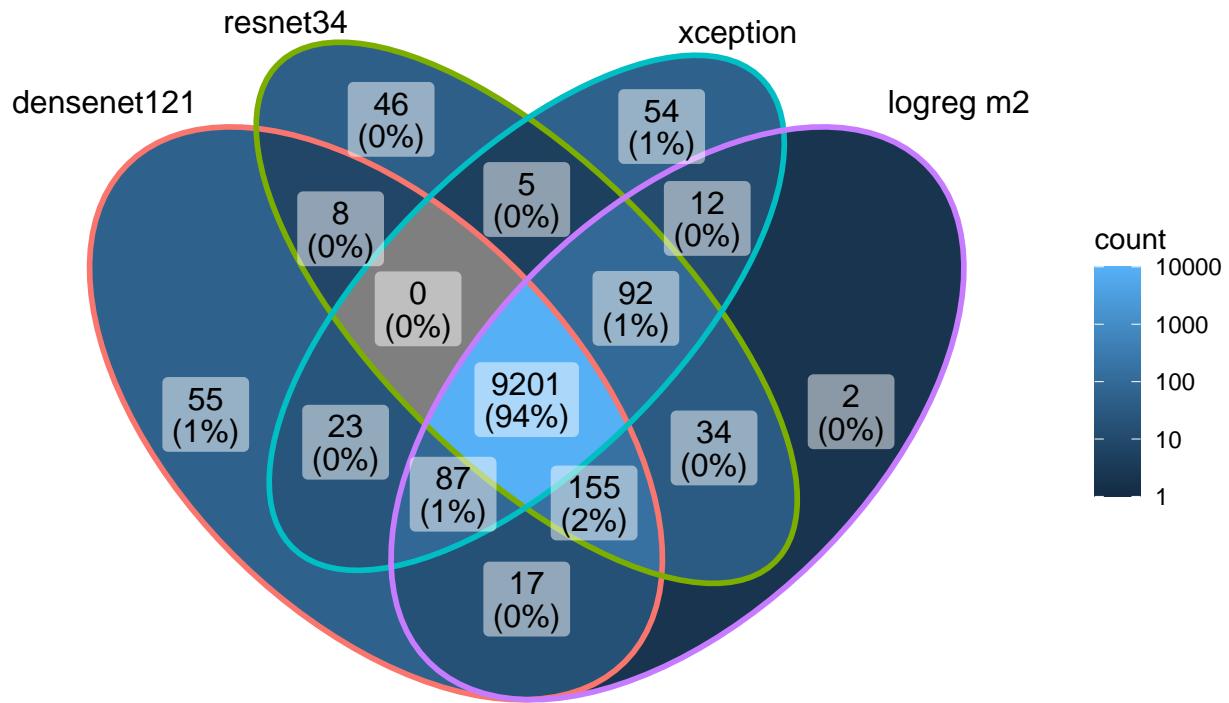


vt – replication 23

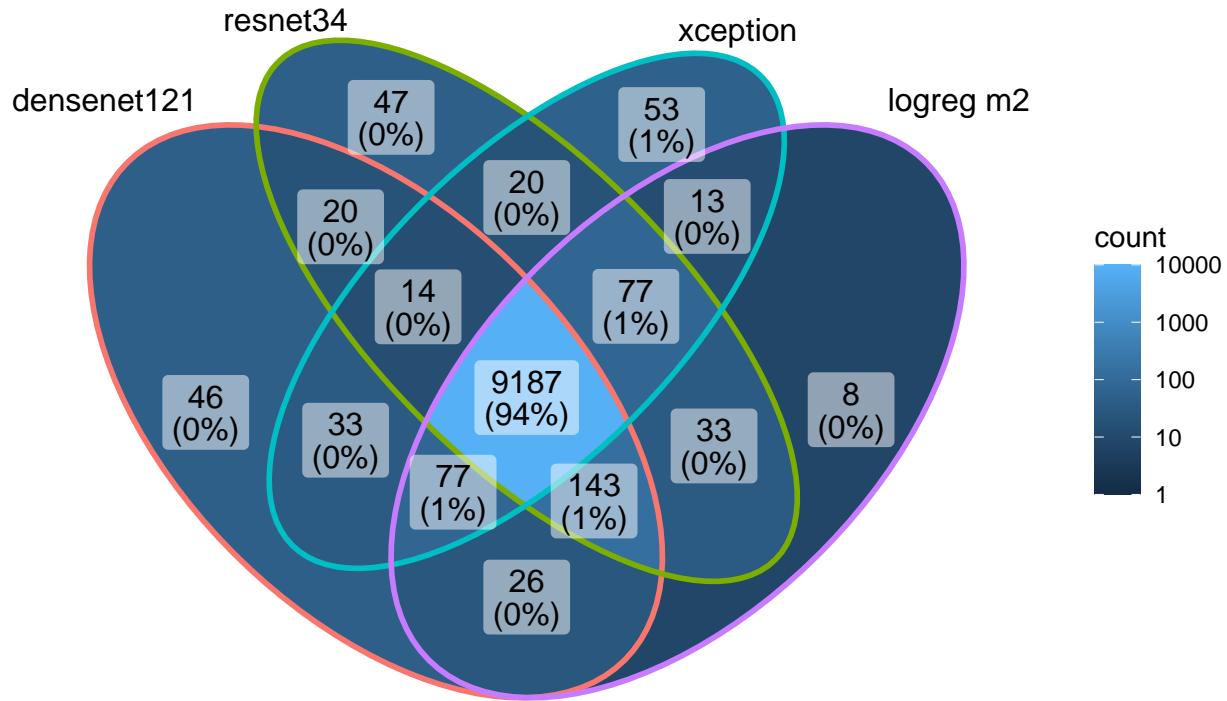


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tt – replication 23

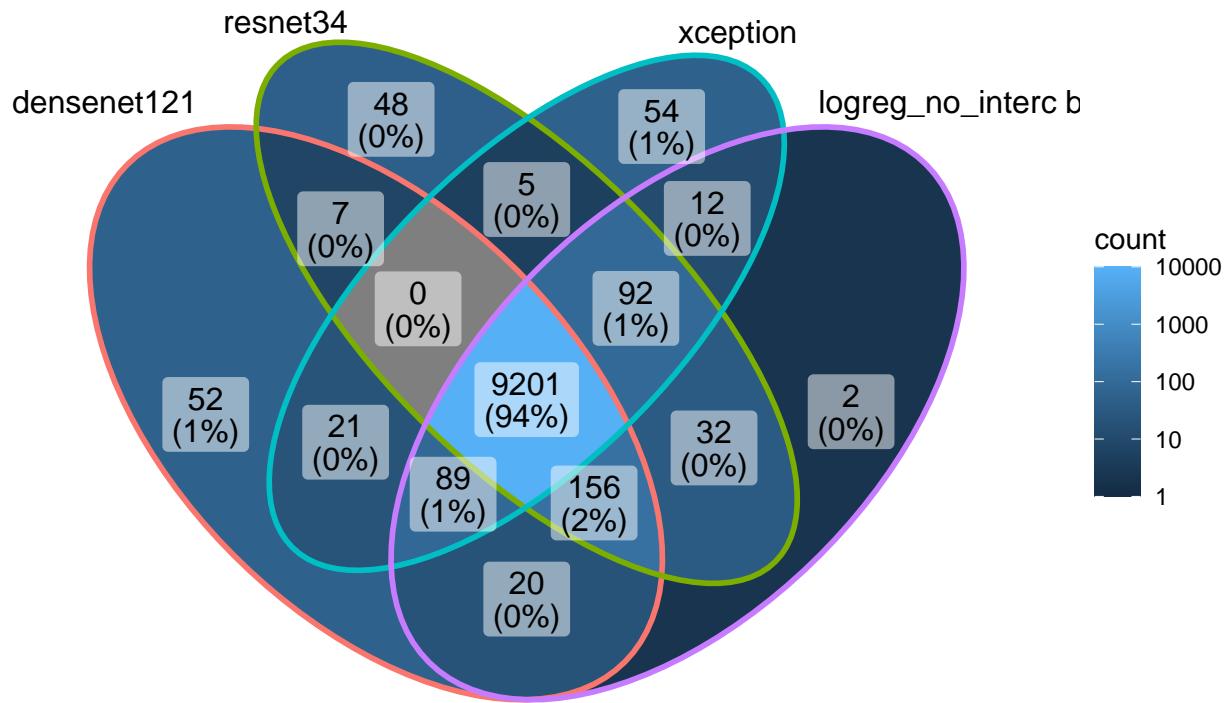


vt – replication 23

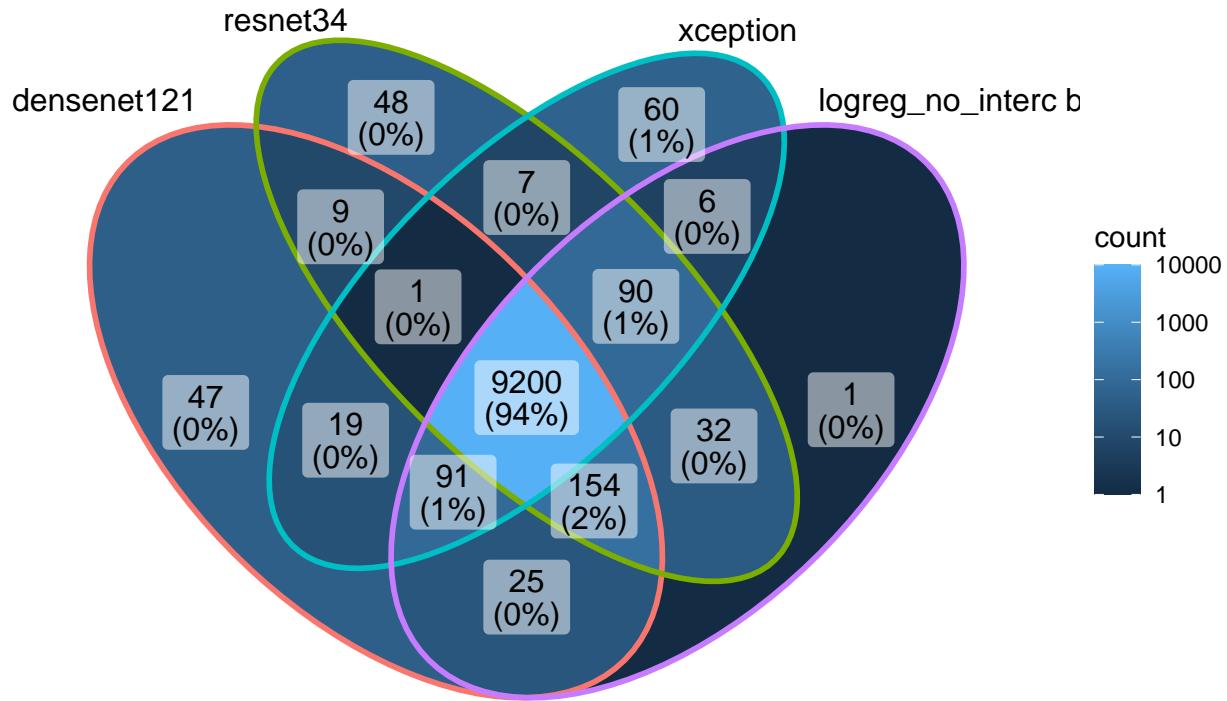


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tt – replication 23

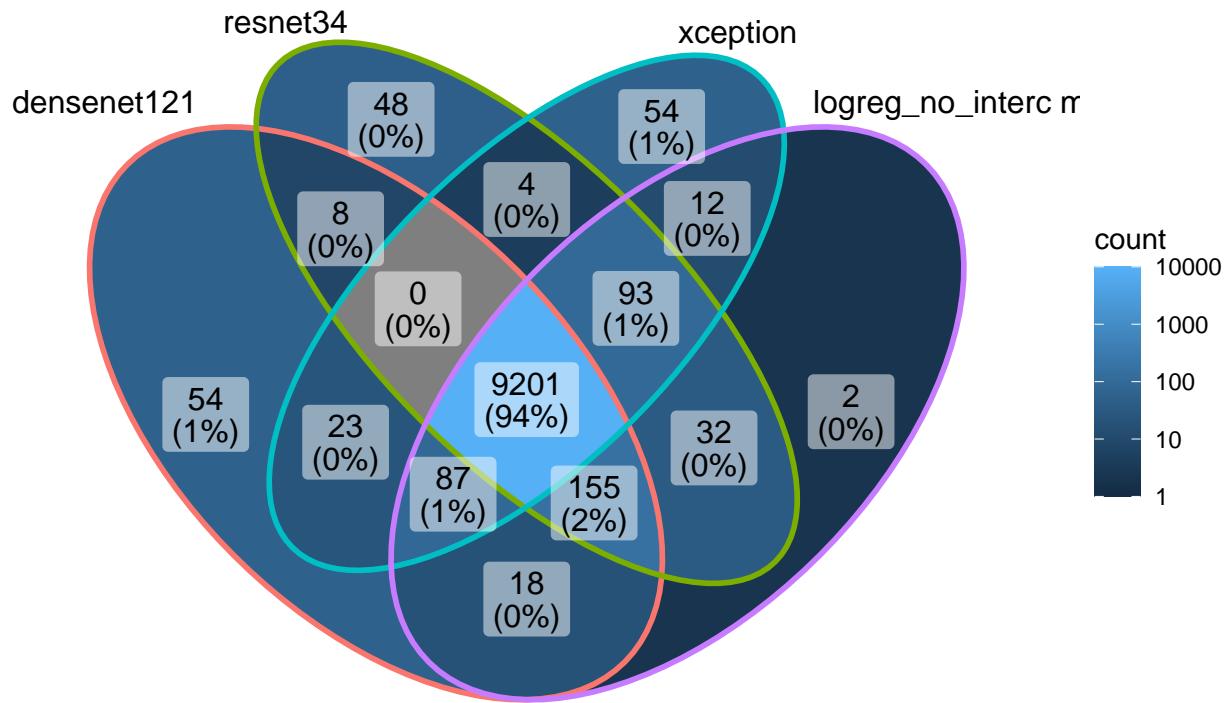


vt – replication 23

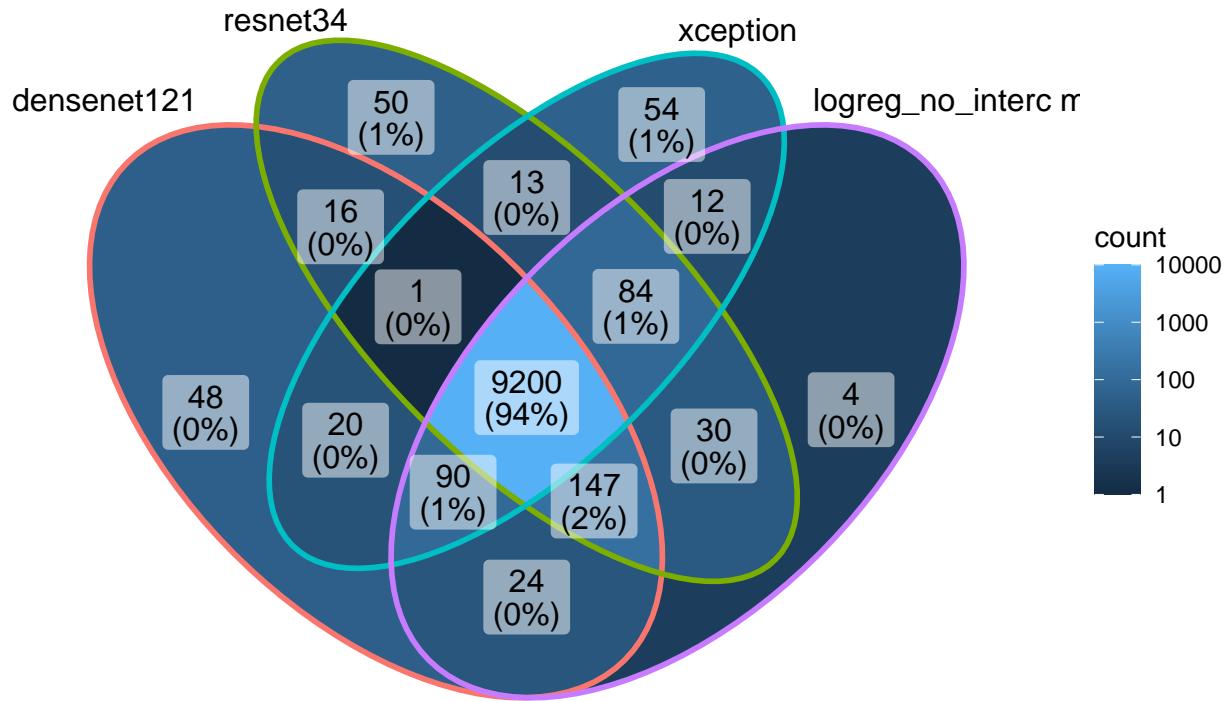


Warning: Transformation introduced infinite values in discrete y-axis

tt – replication 23

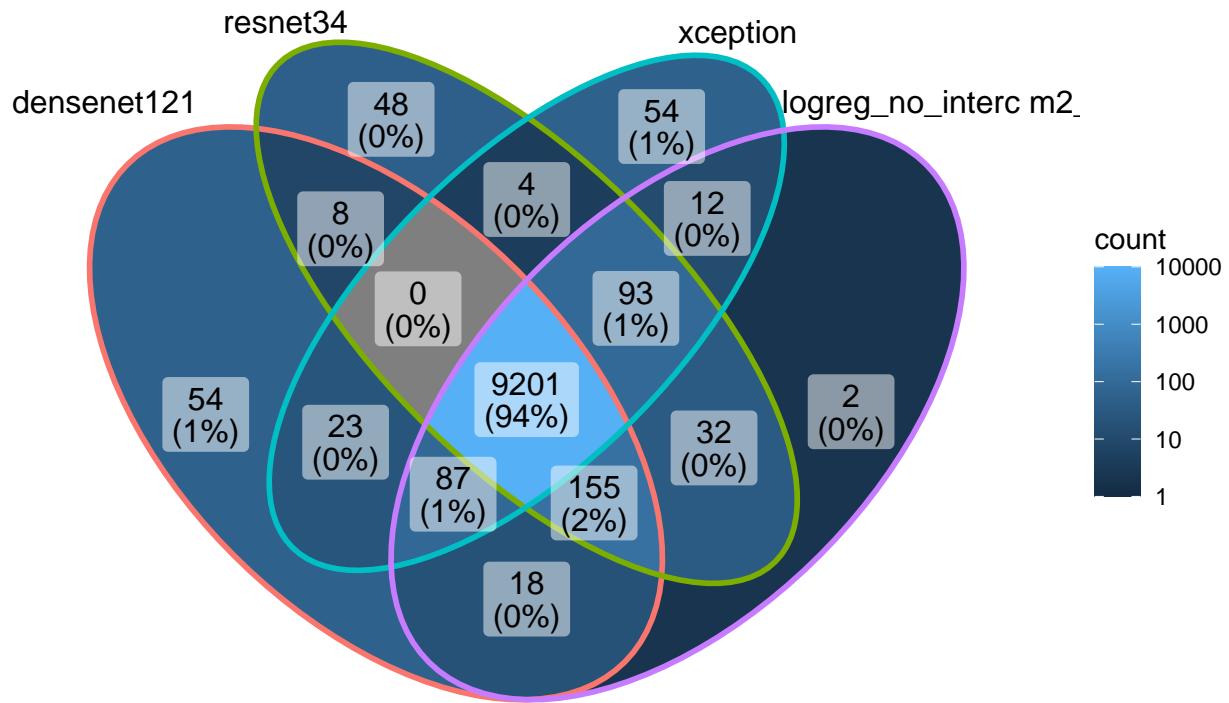


vt – replication 23

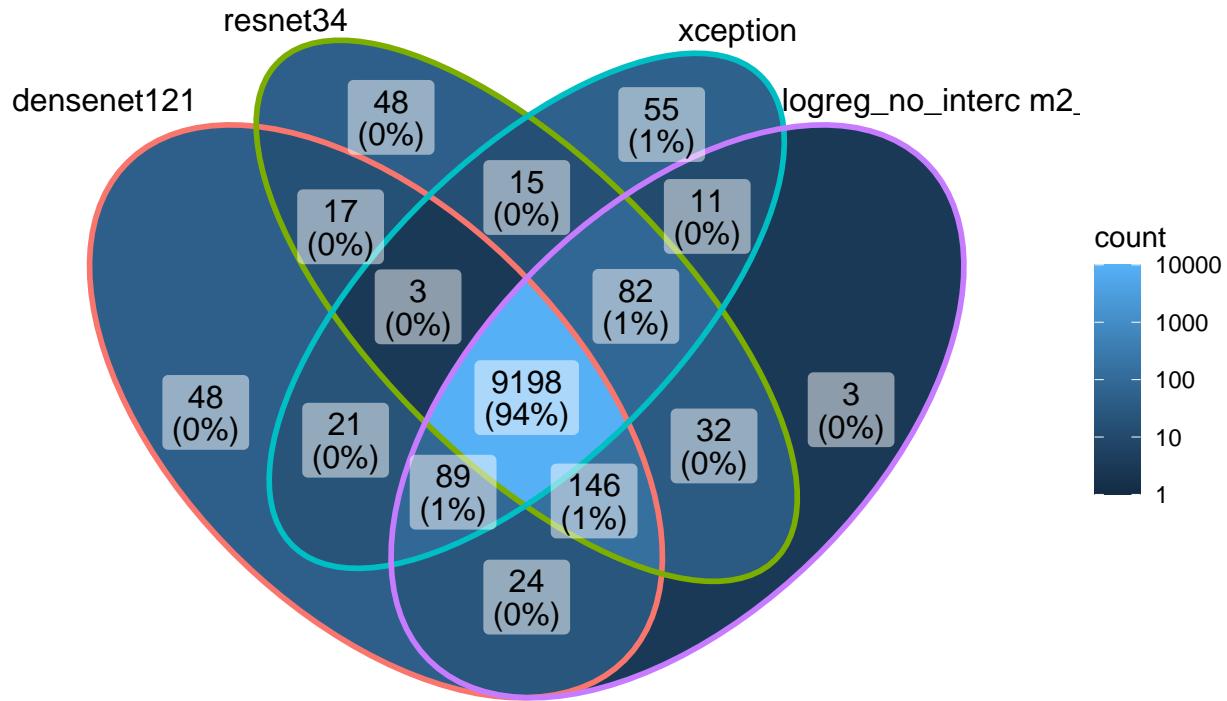


Warning: Transformation introduced infinite values in discrete y-axis

tt – replication 23

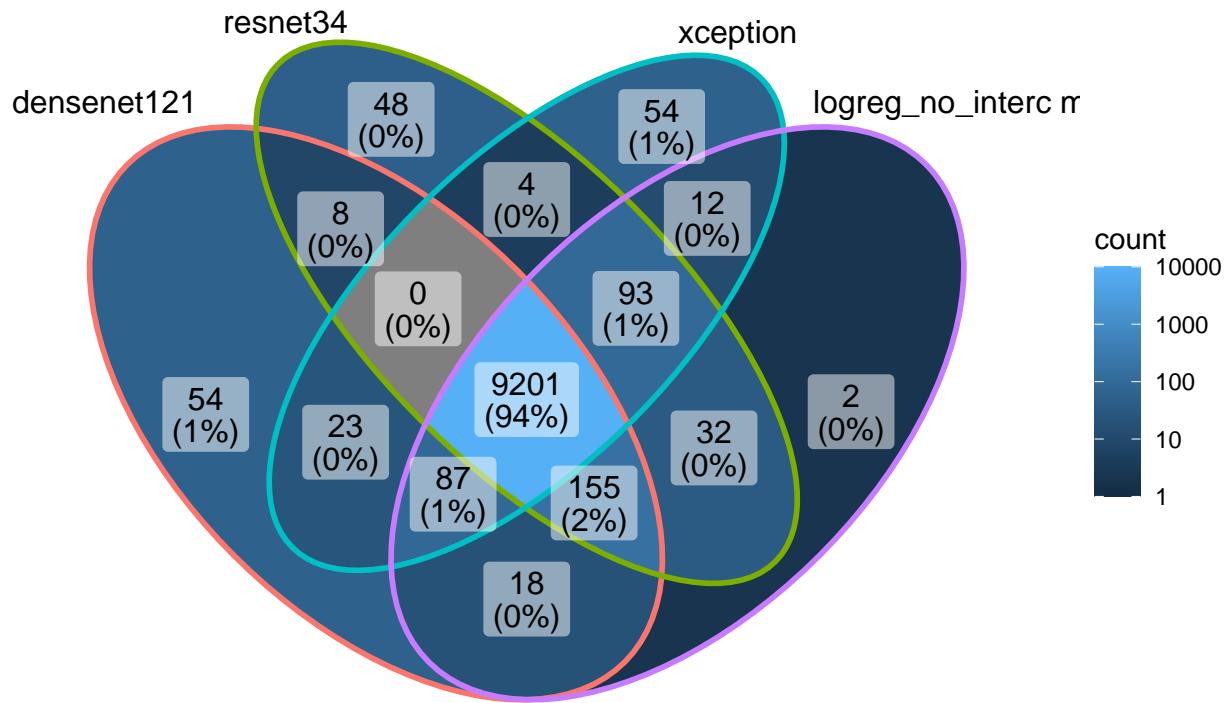


vt – replication 23

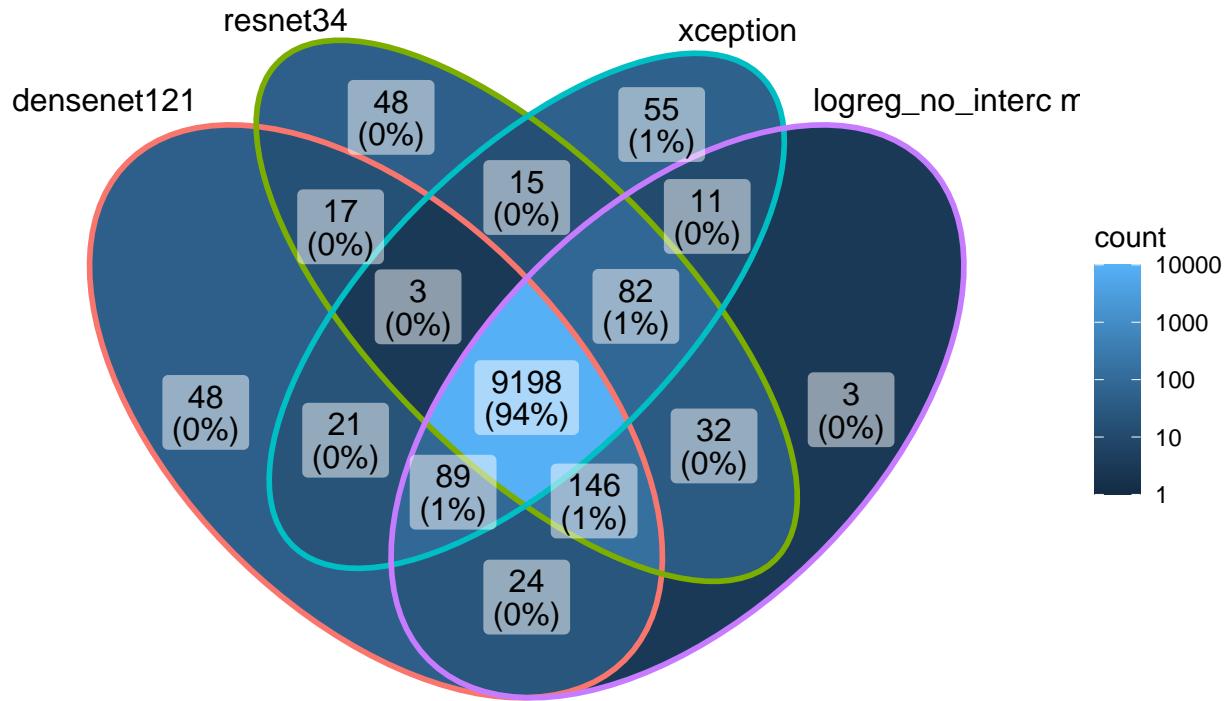


Warning: Transformation introduced infinite values in discrete y-axis

tt – replication 23

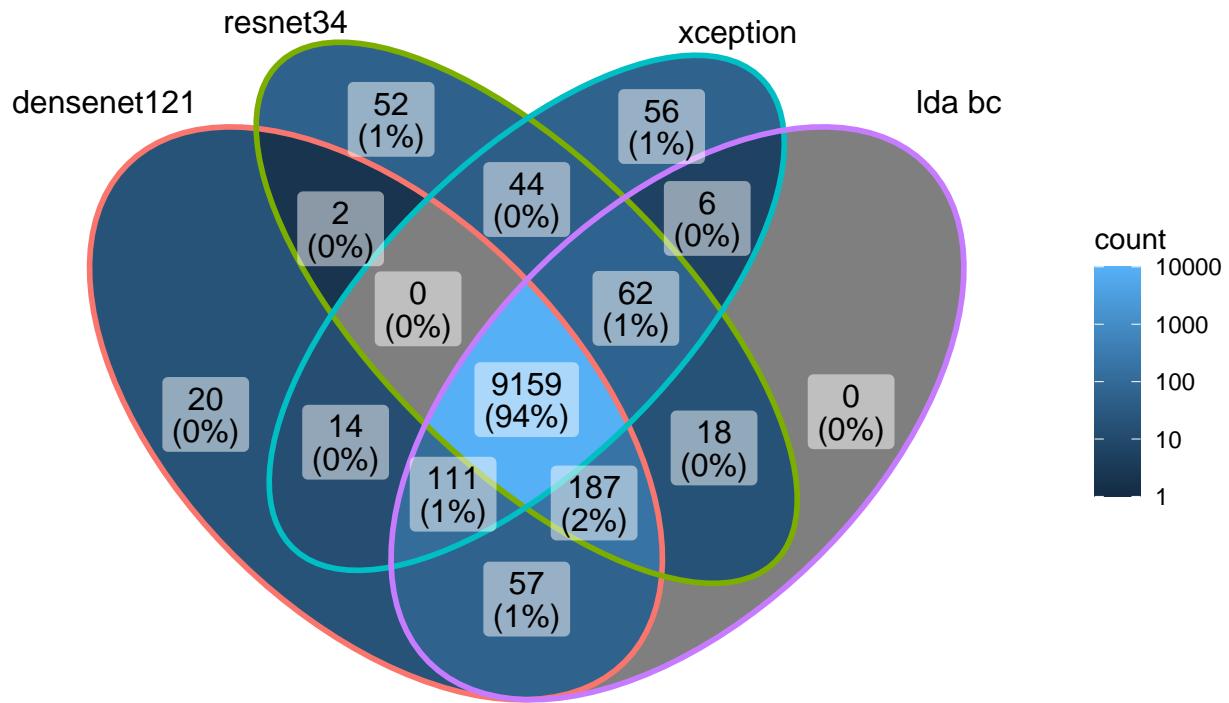


vt – replication 23

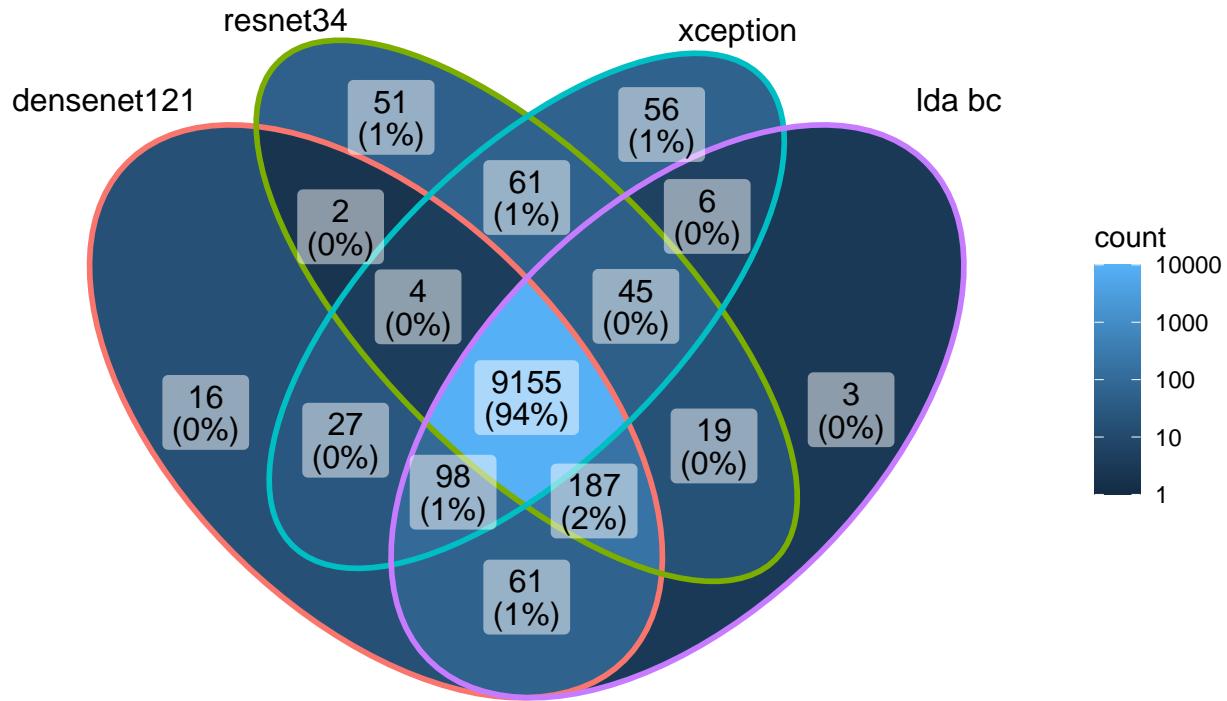


Warning: Transformation introduced infinite values in discrete y-axis

tt – replication 24

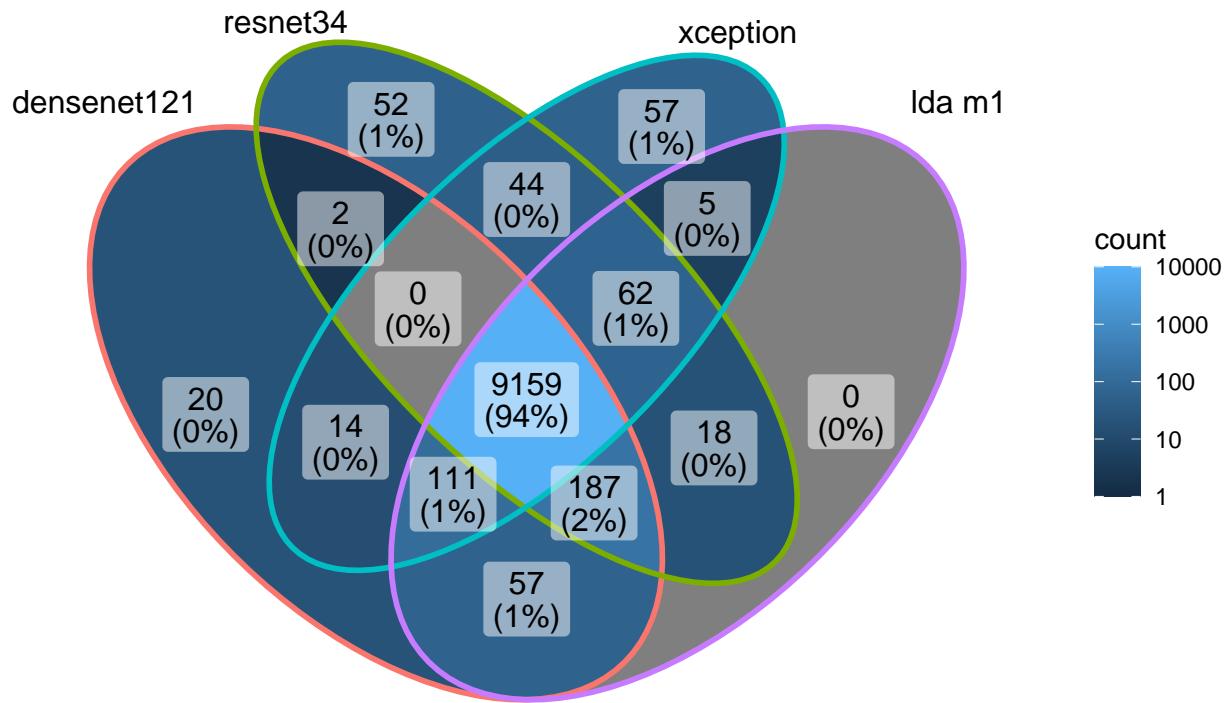


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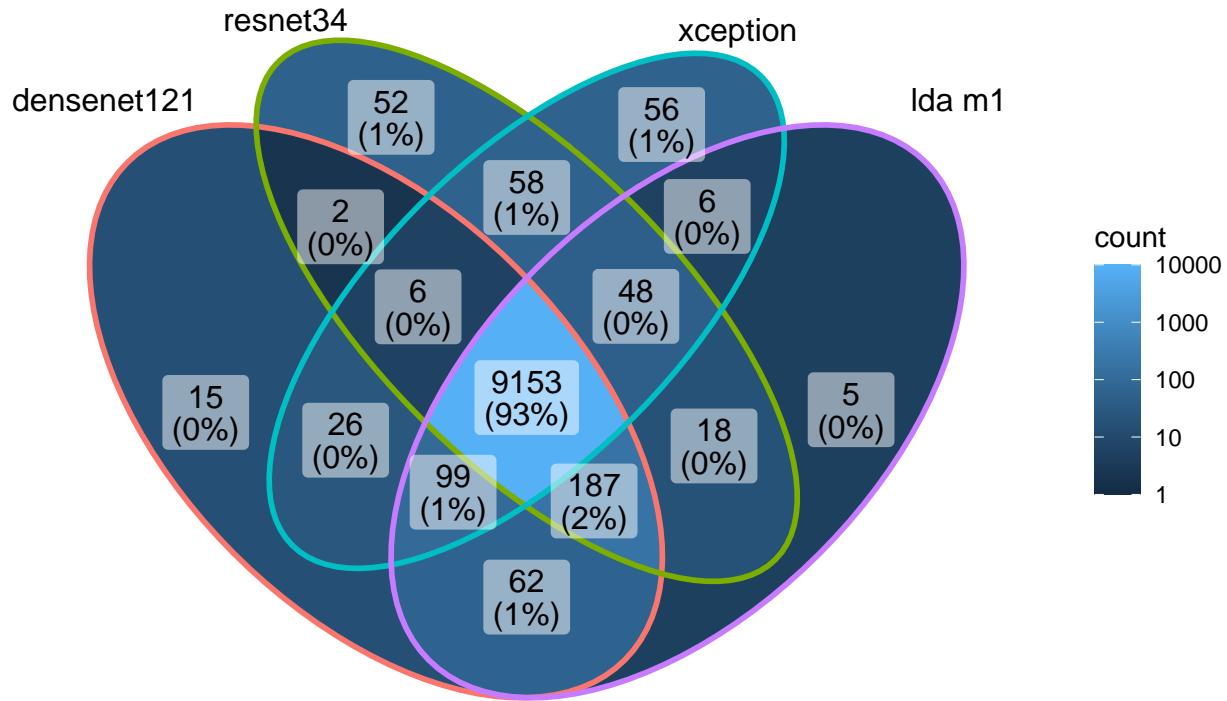


Warning: Transformation introduced infinite values in discrete y-axis

tt – replication 24

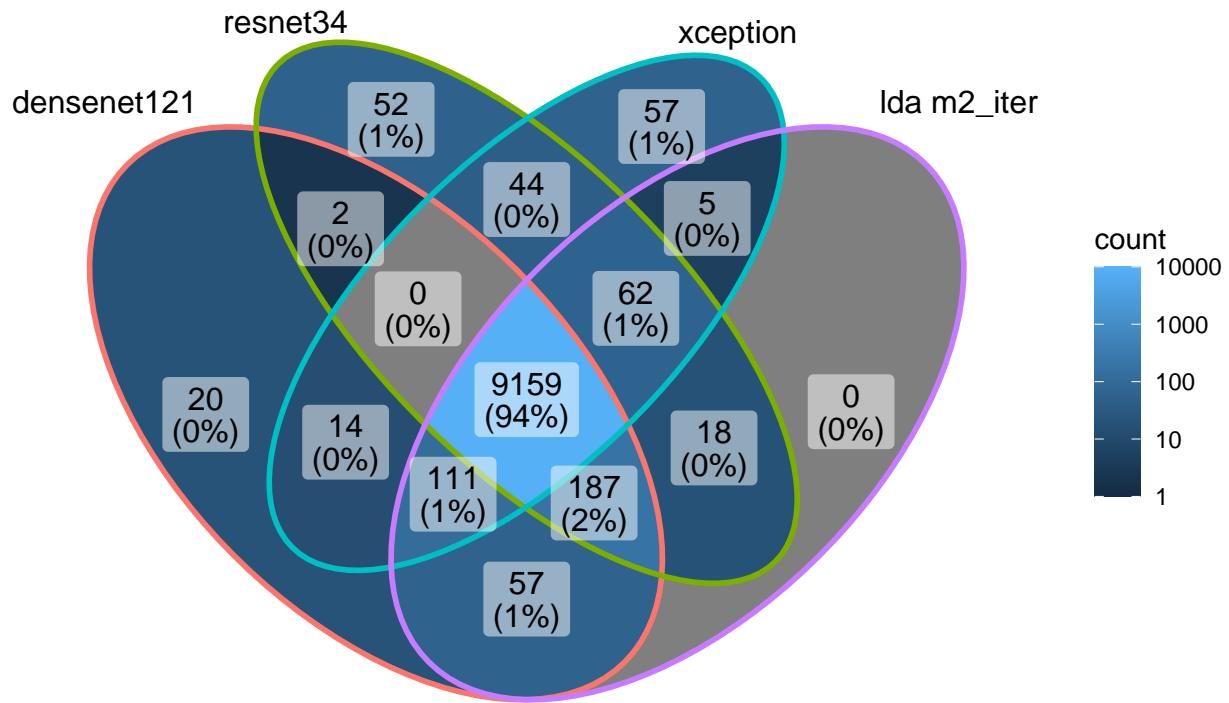


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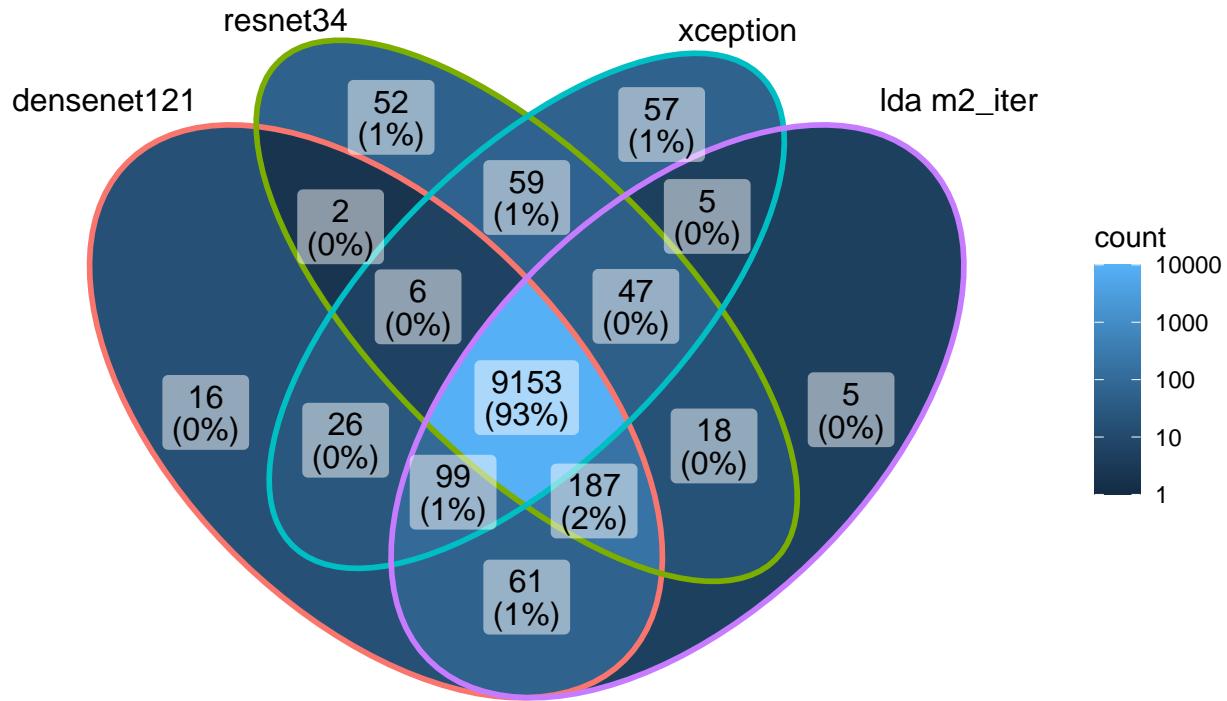


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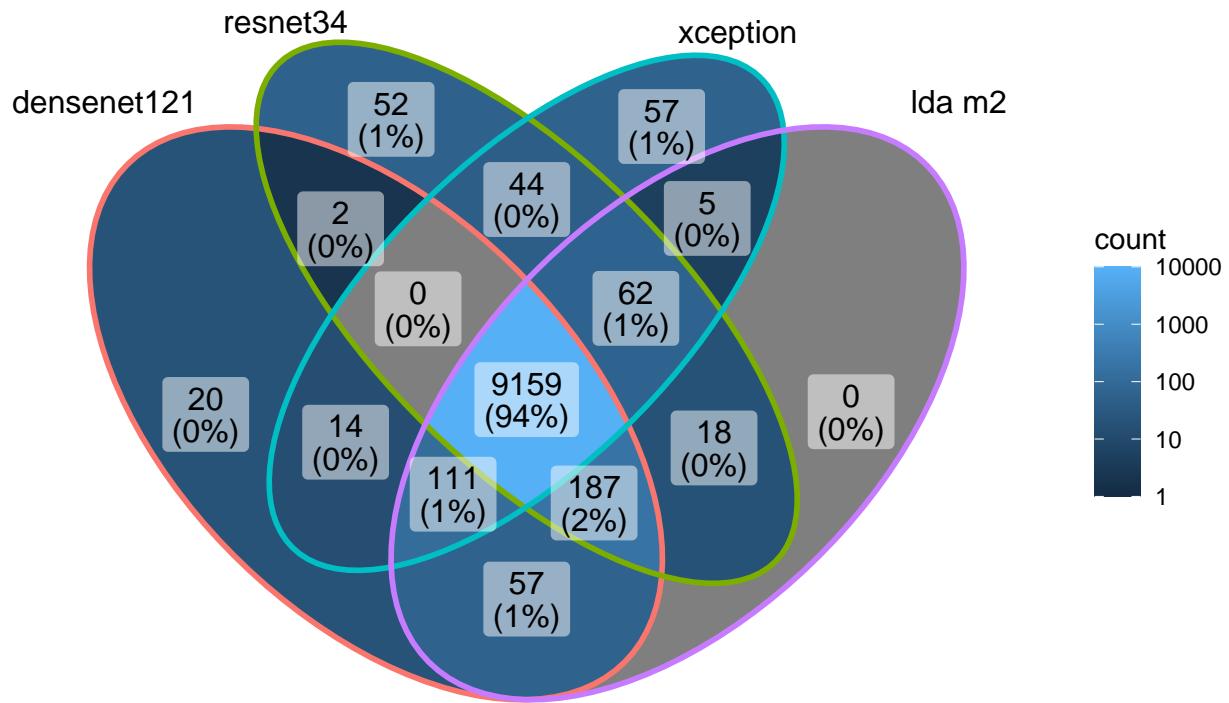


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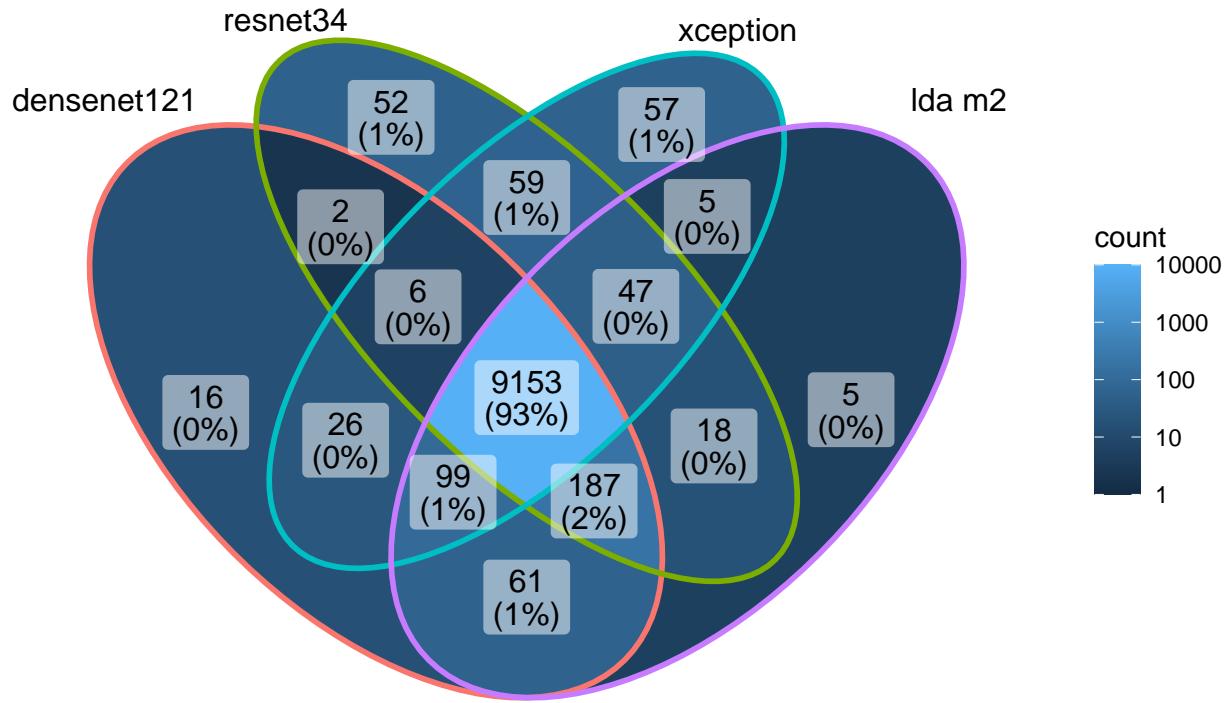


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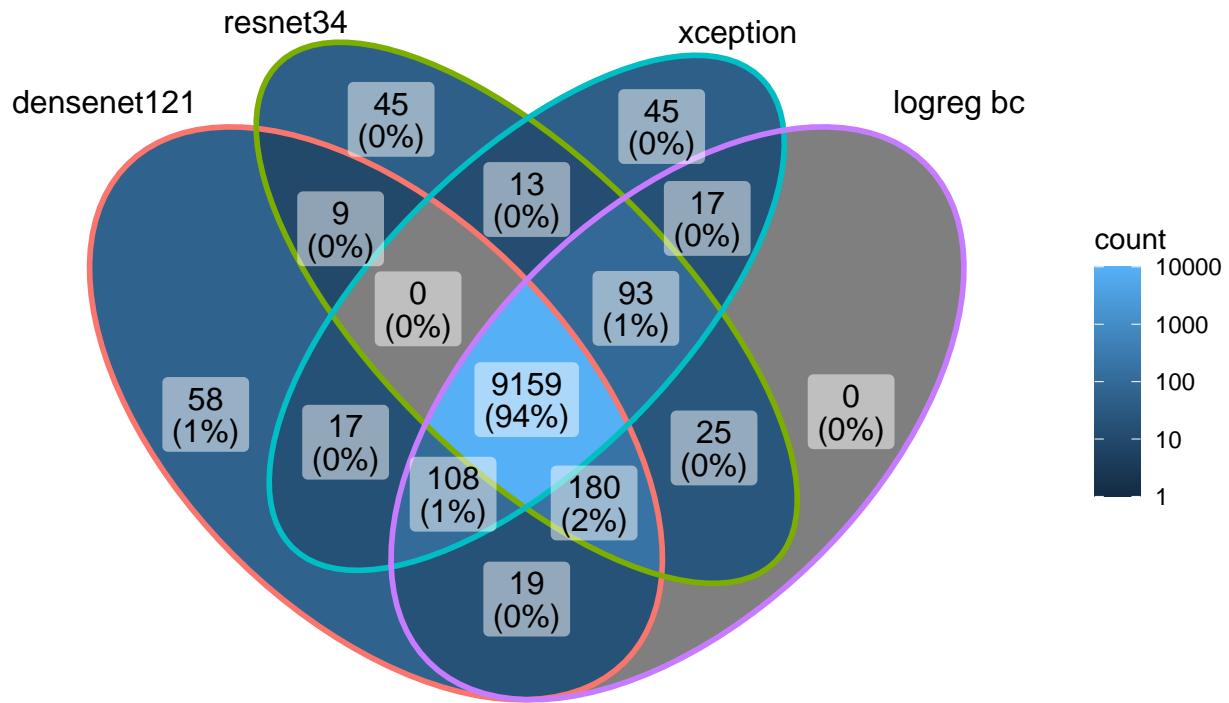


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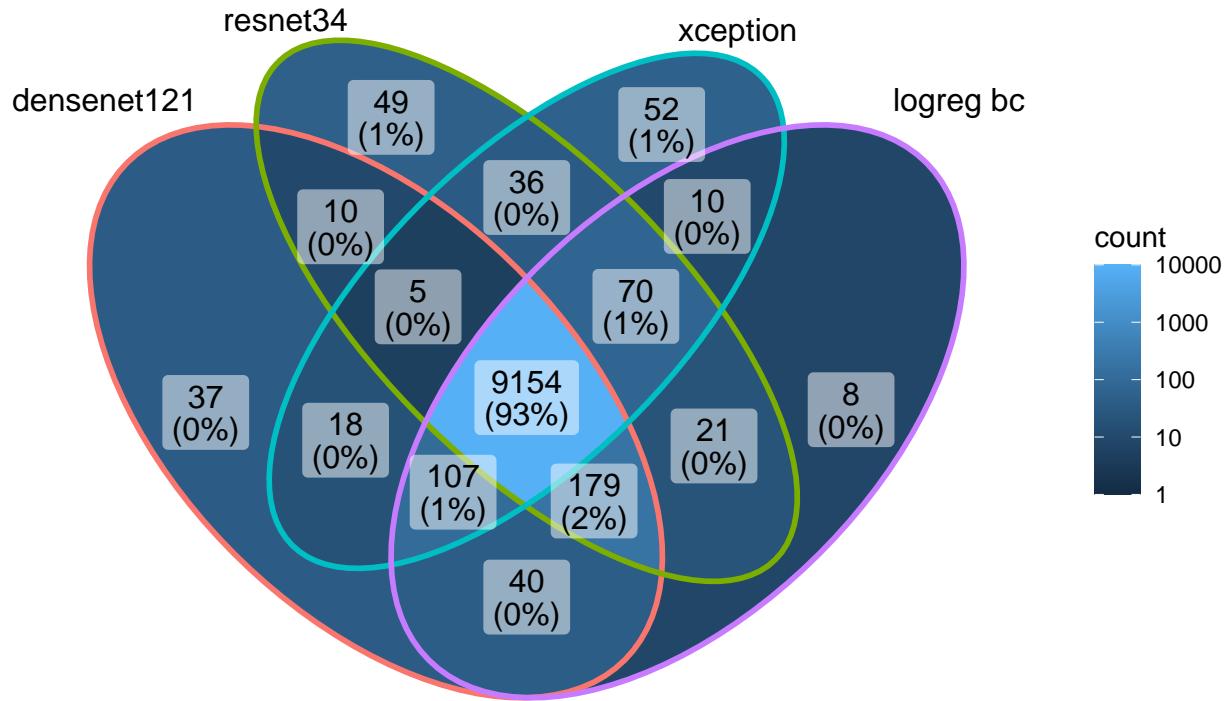


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tt – replication 24

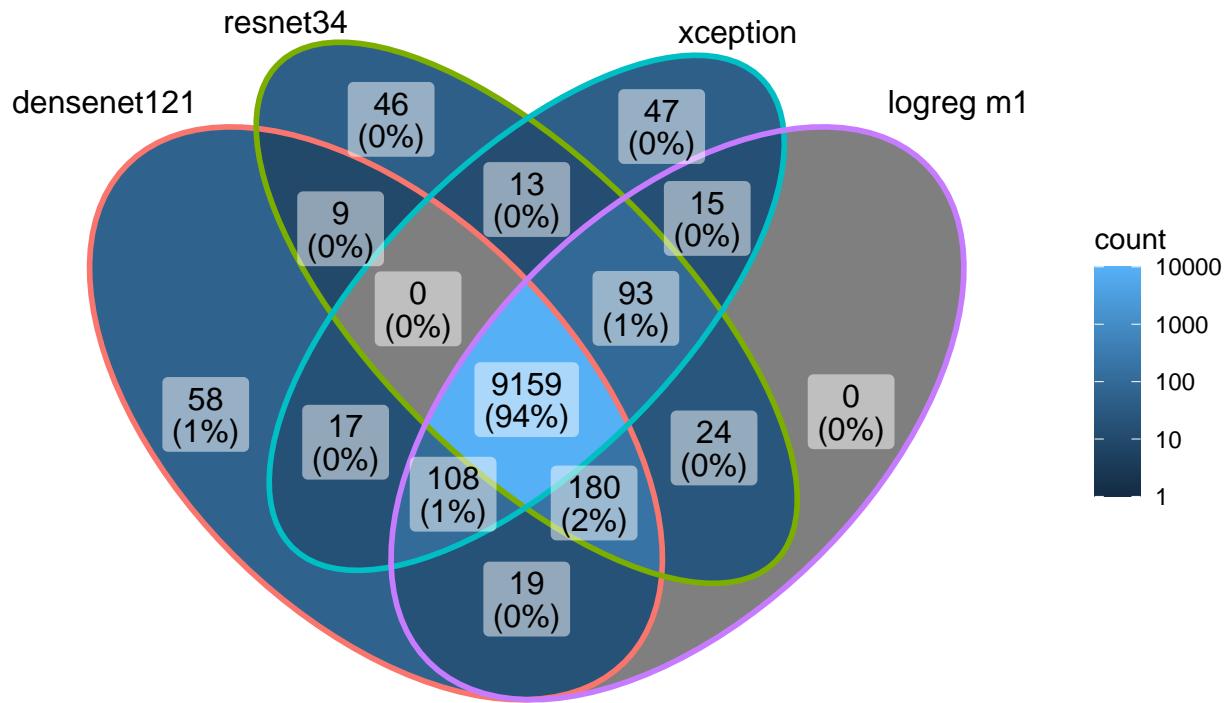


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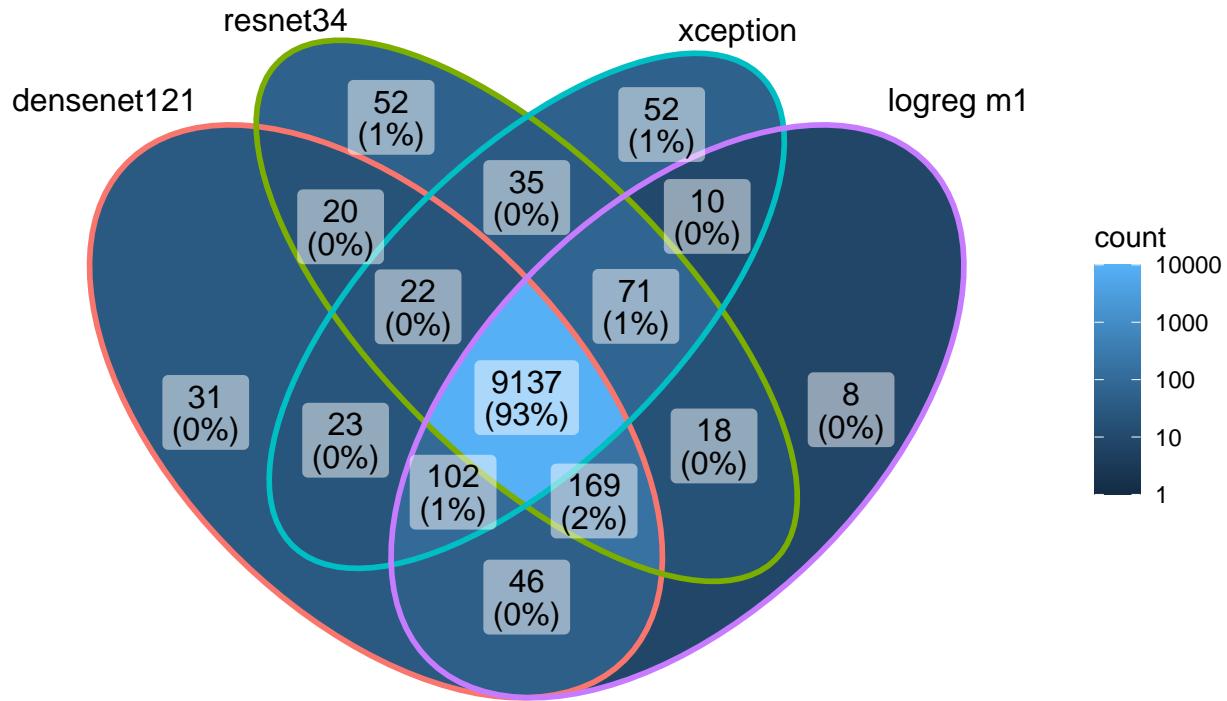


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tt – replication 24

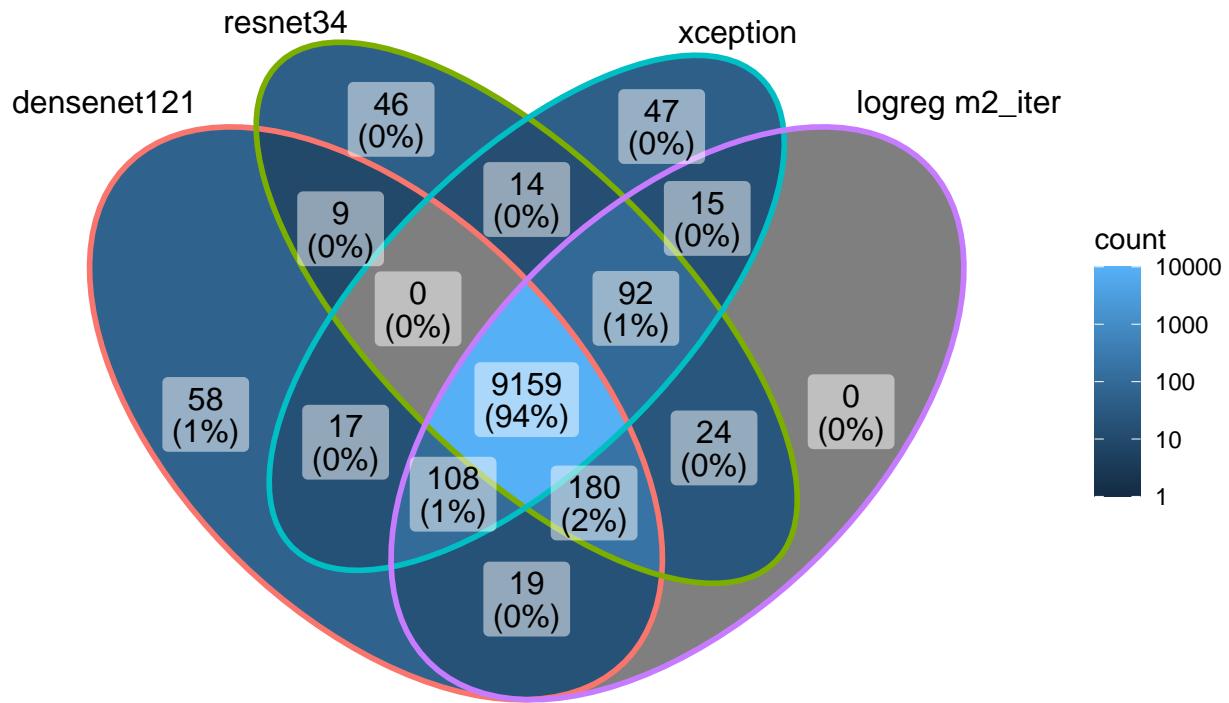


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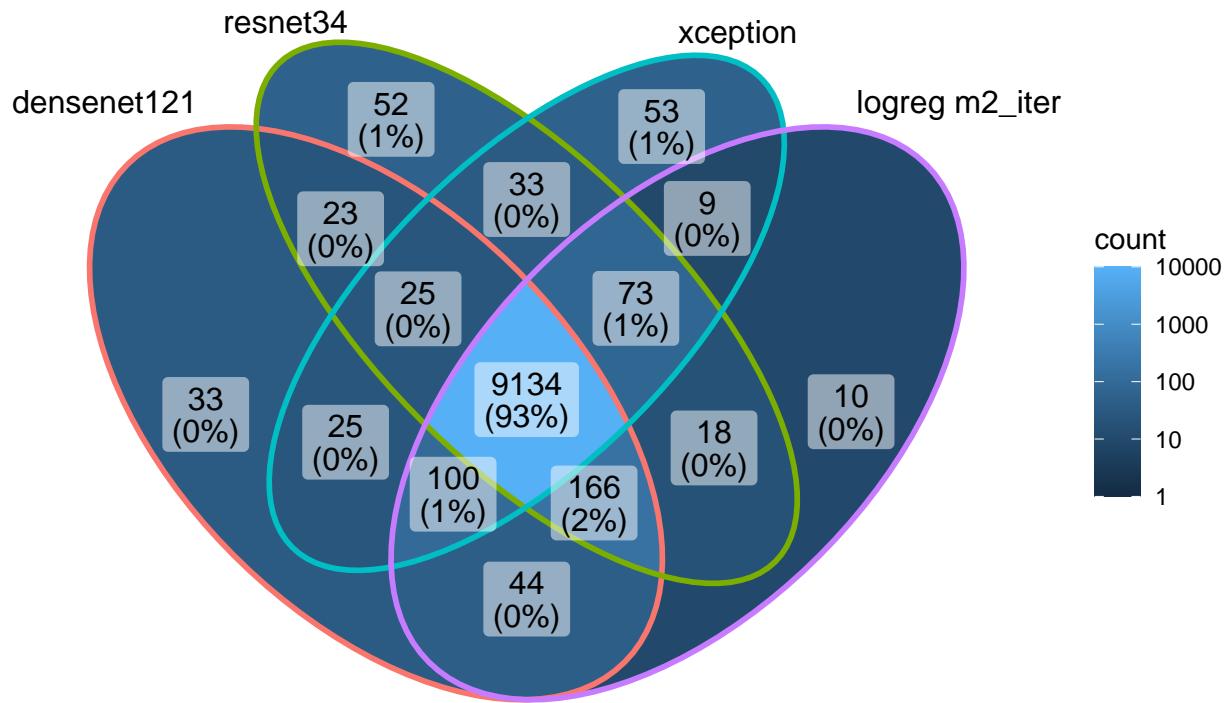


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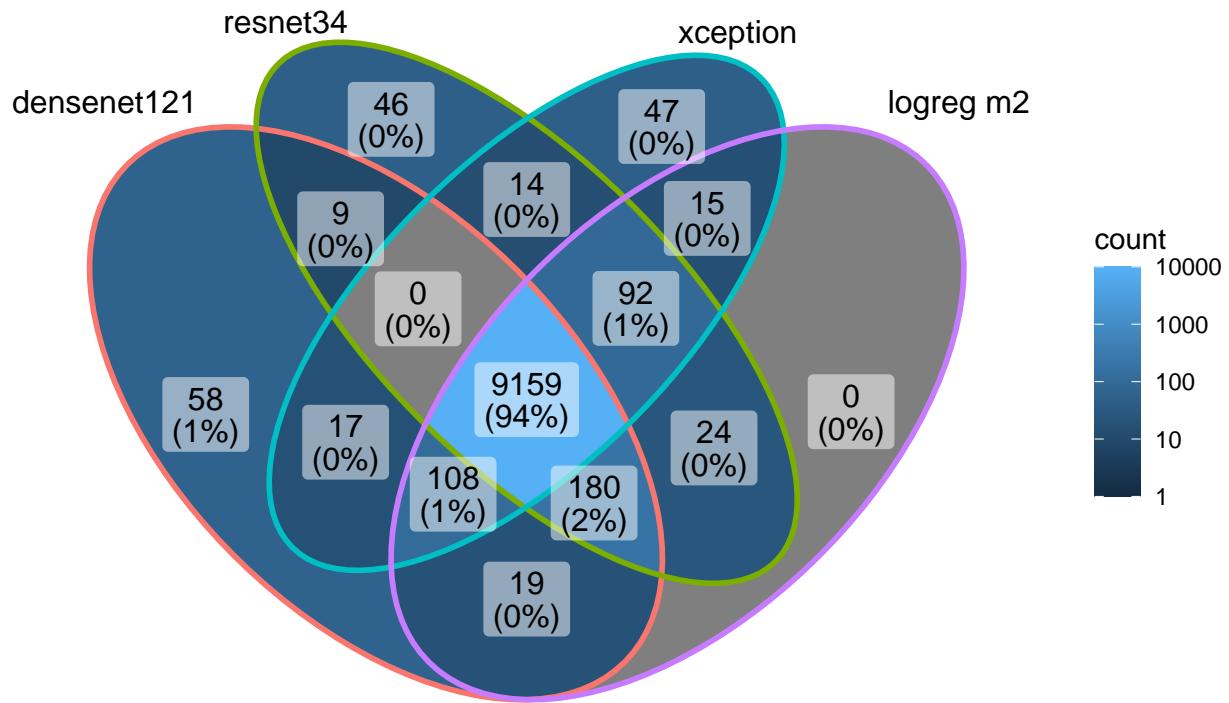


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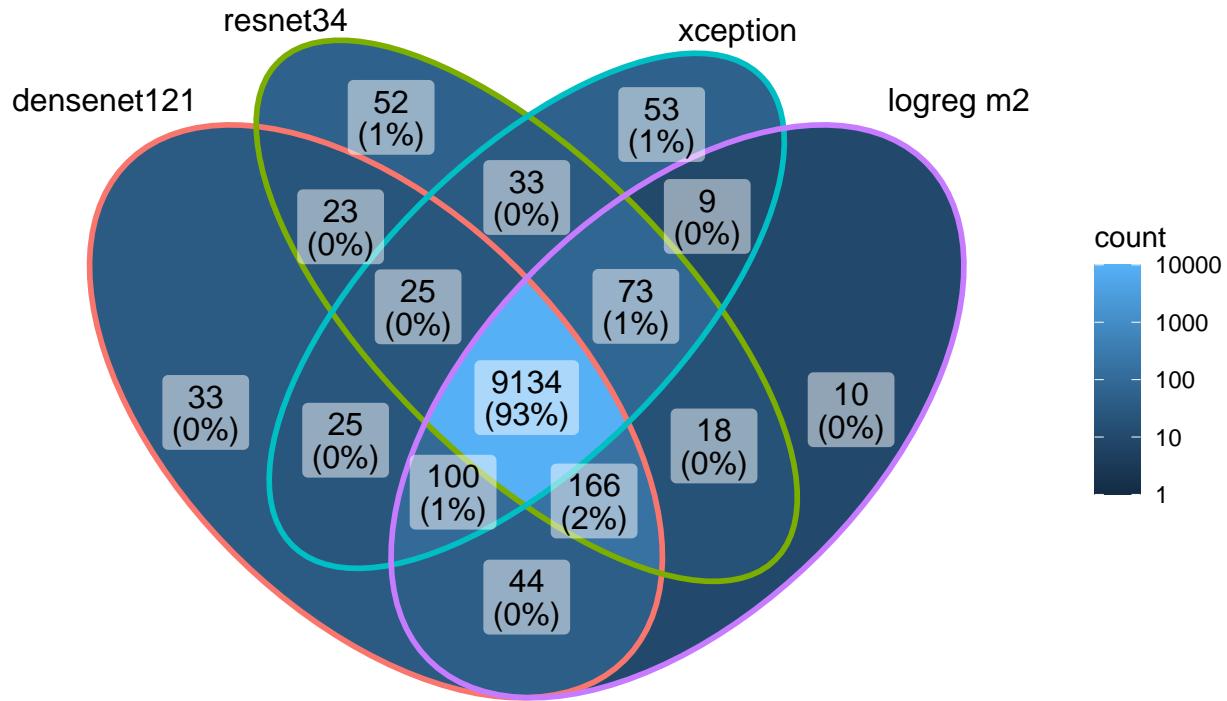


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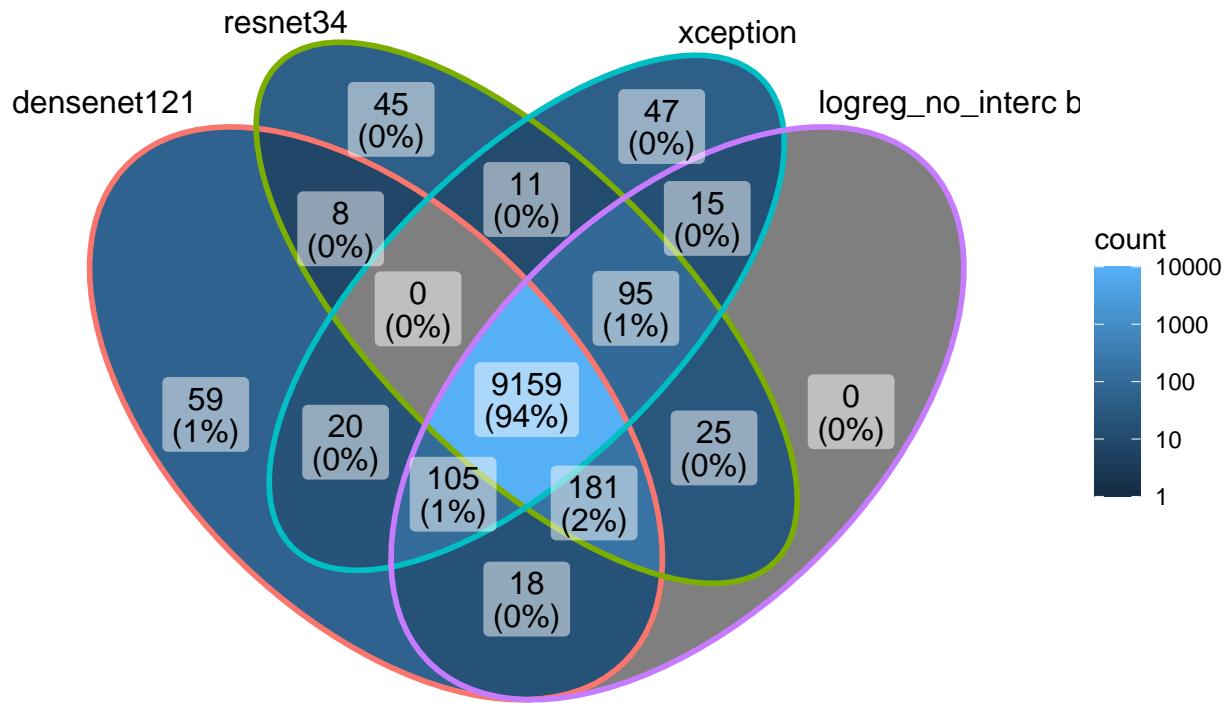


vt – replication 24



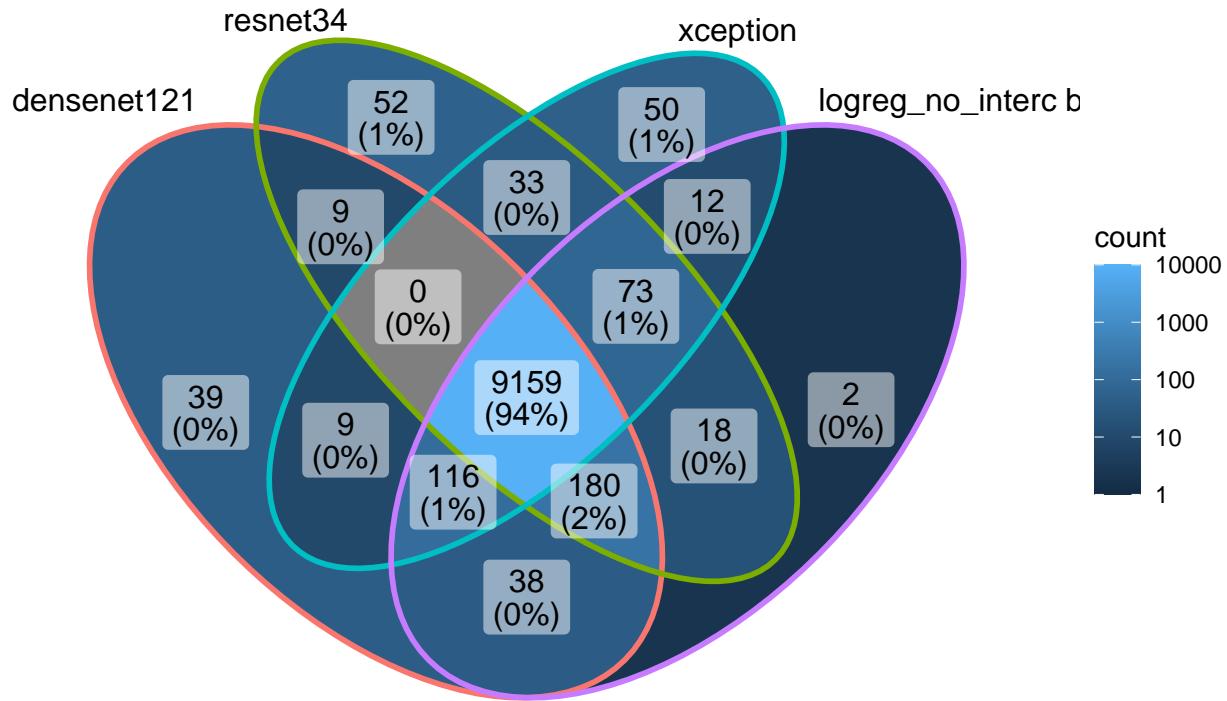
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tt – replication 24



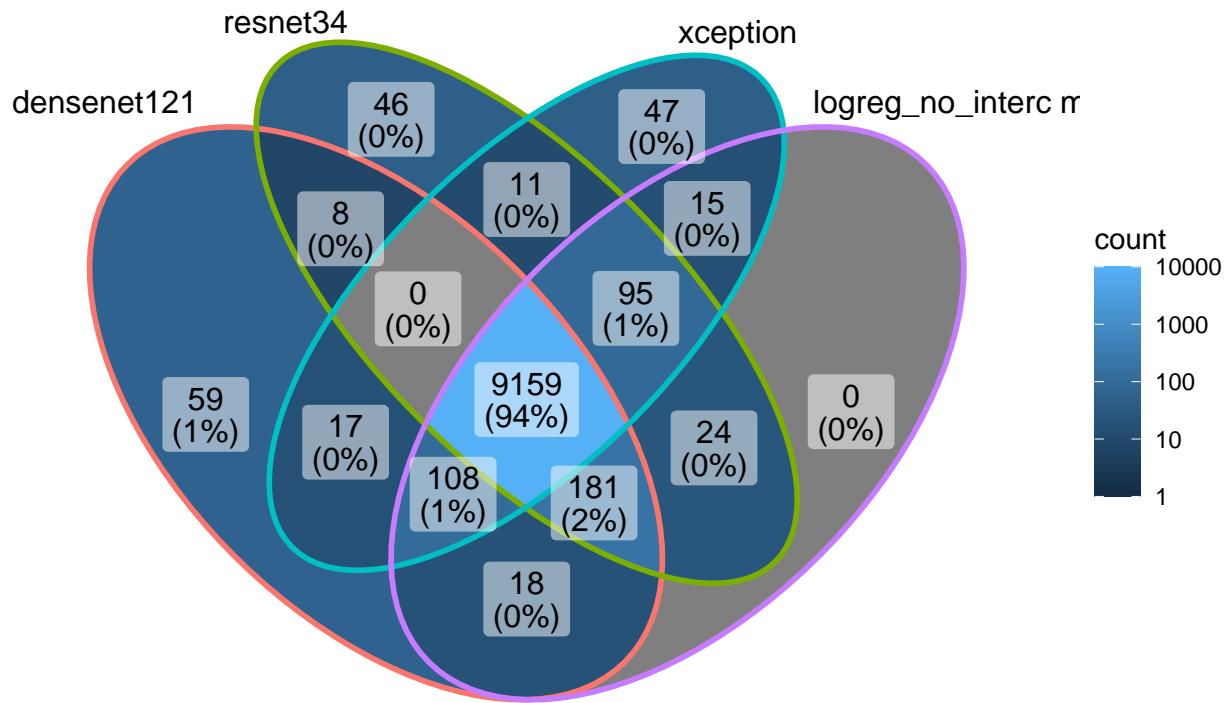
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vt – replication 24

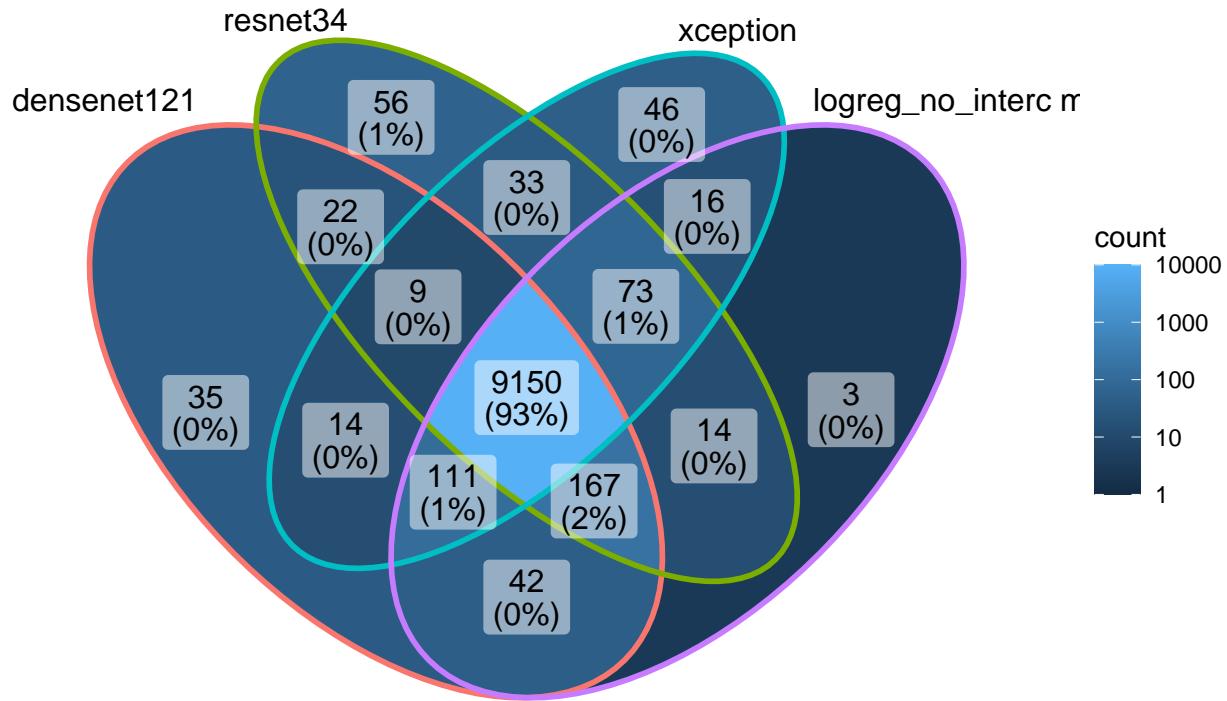


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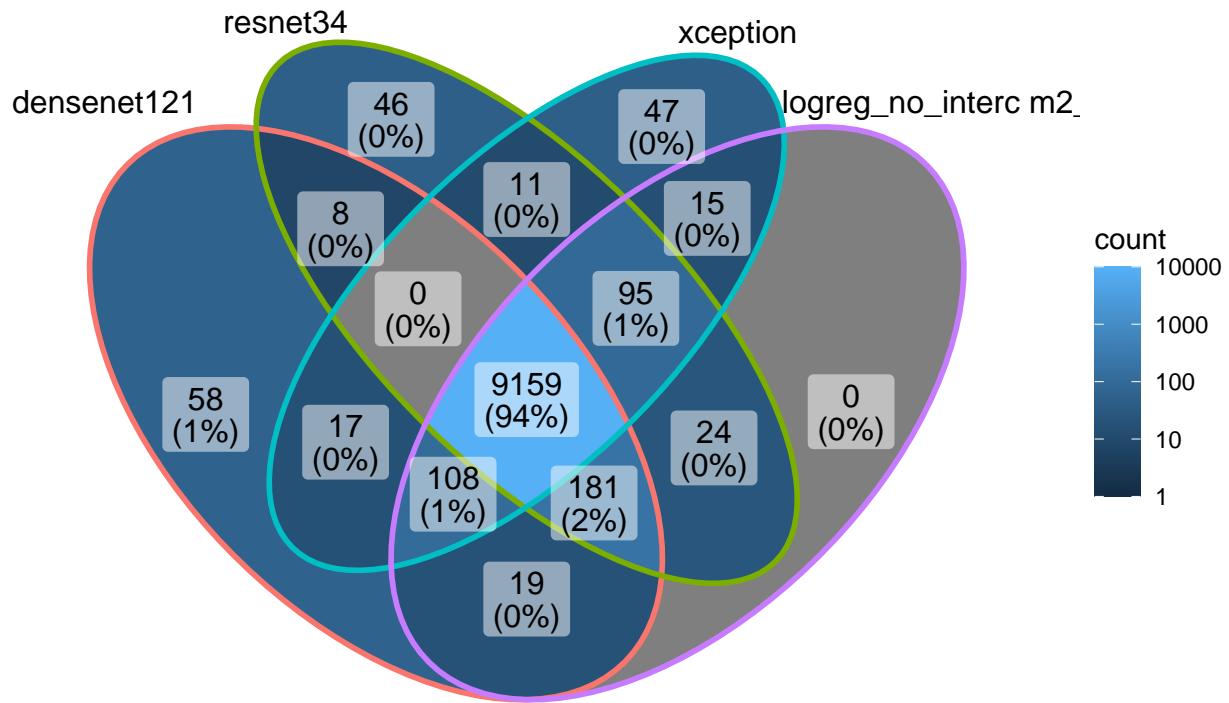


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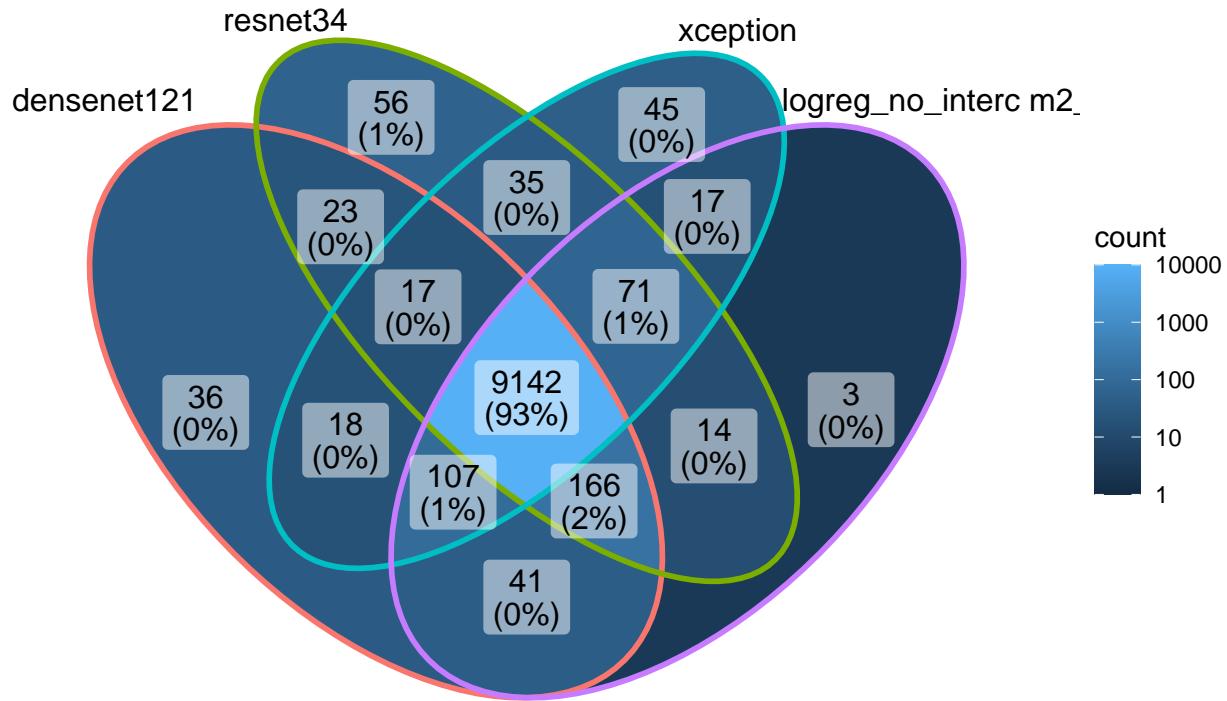


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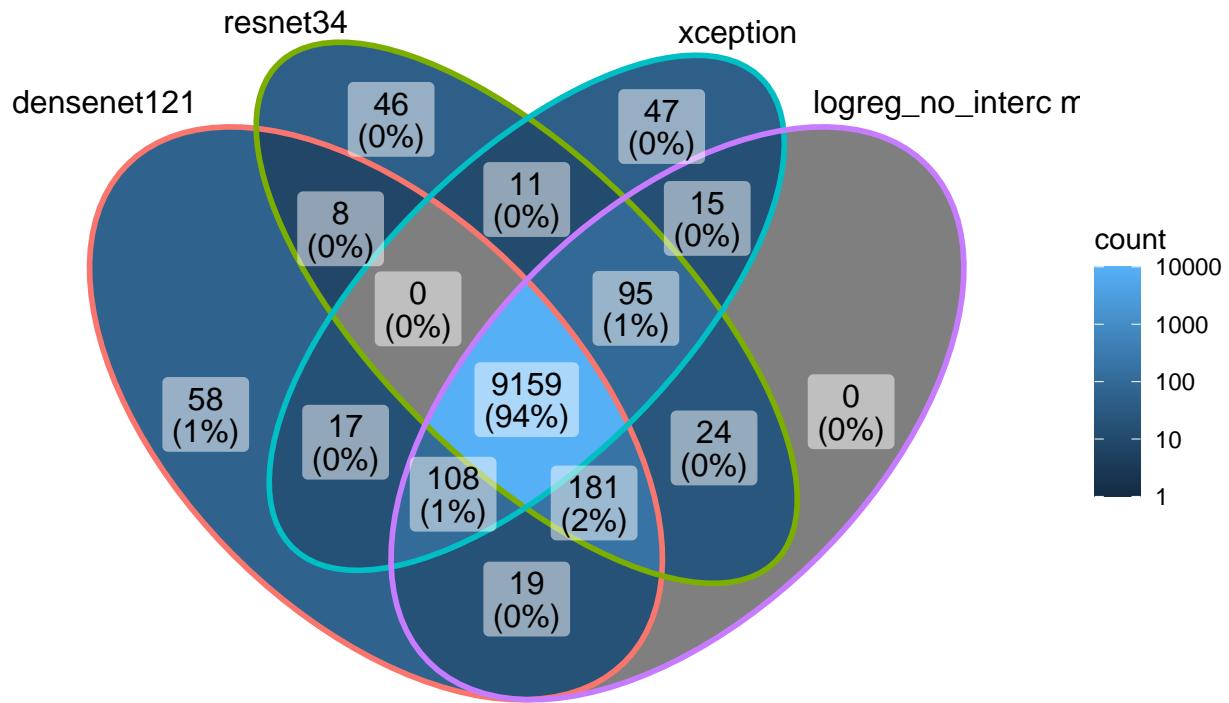


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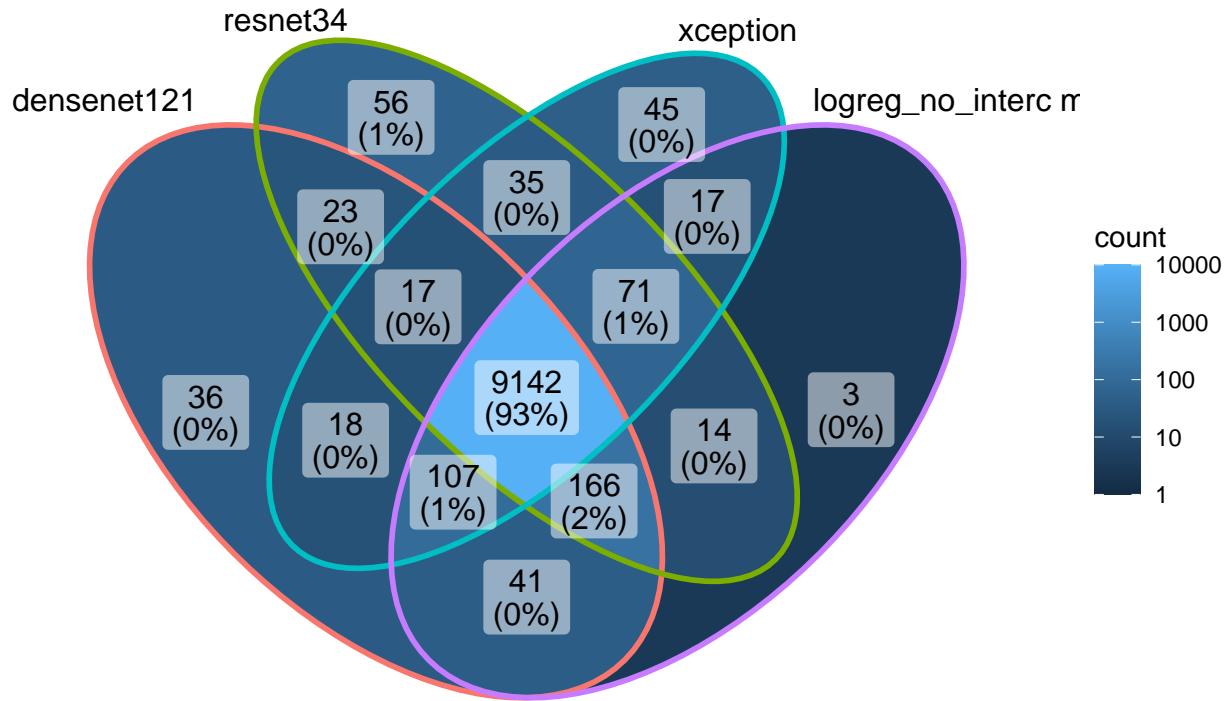


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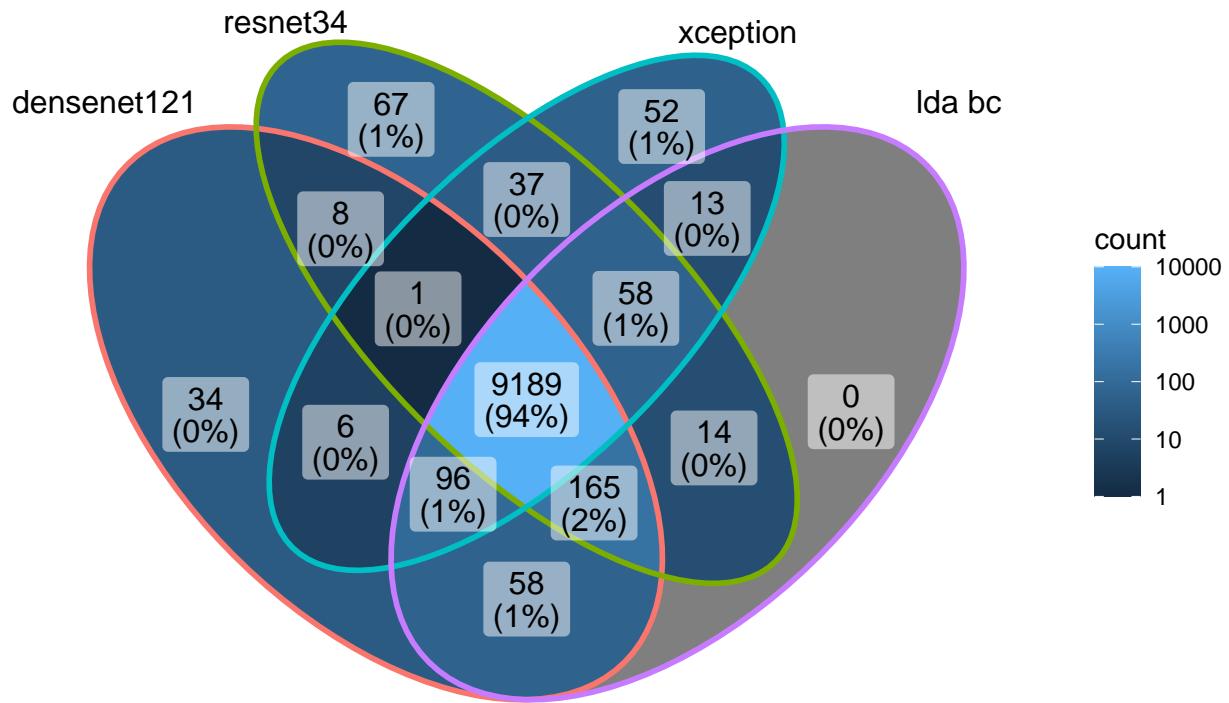


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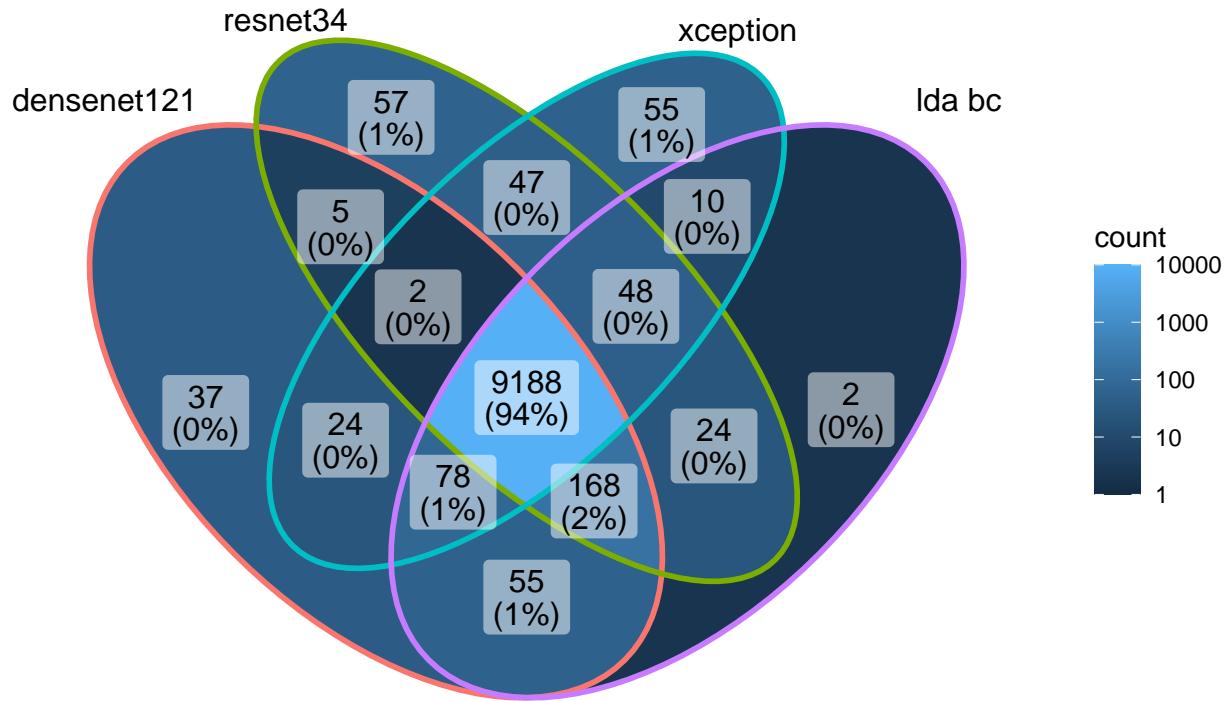


Warning: Transformation introduced infinite values in discrete y-axis

tt – replication 25

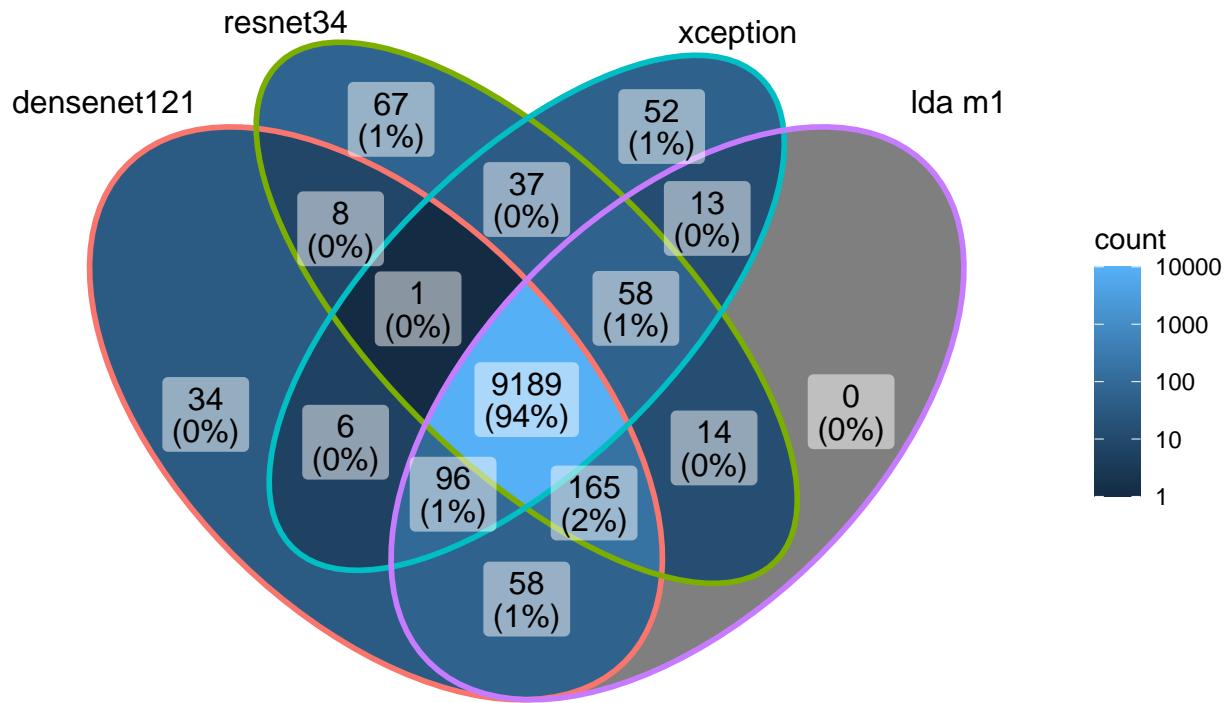


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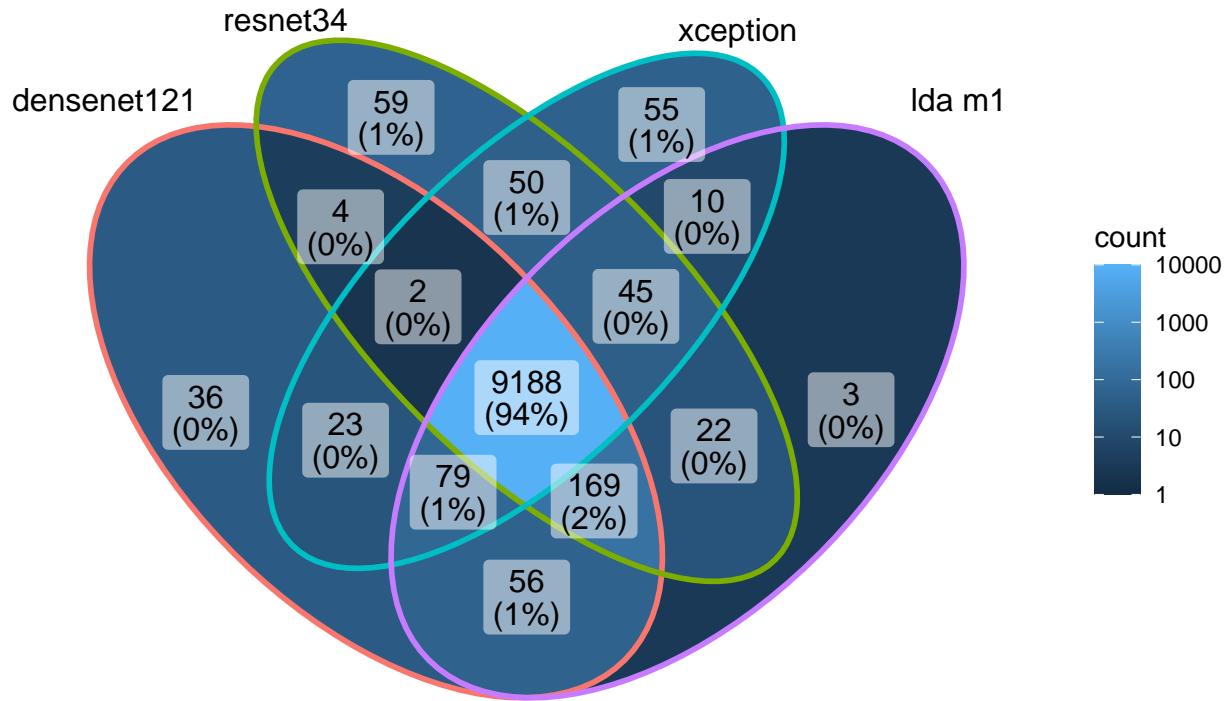


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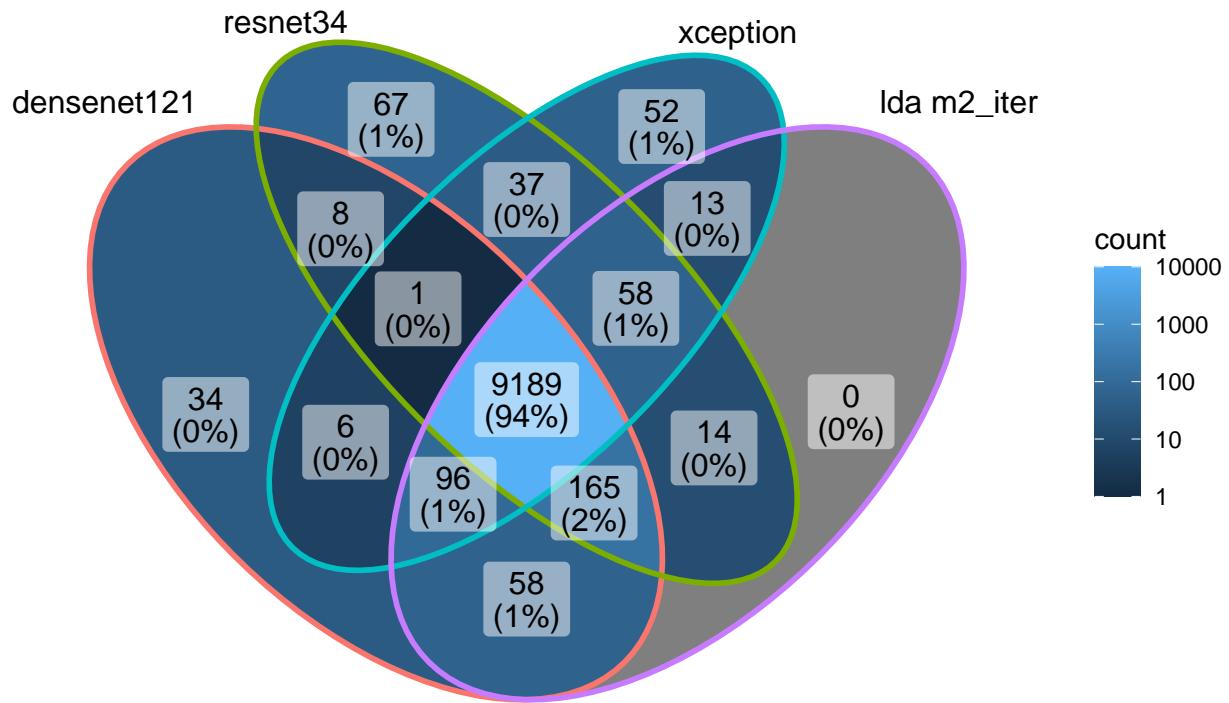


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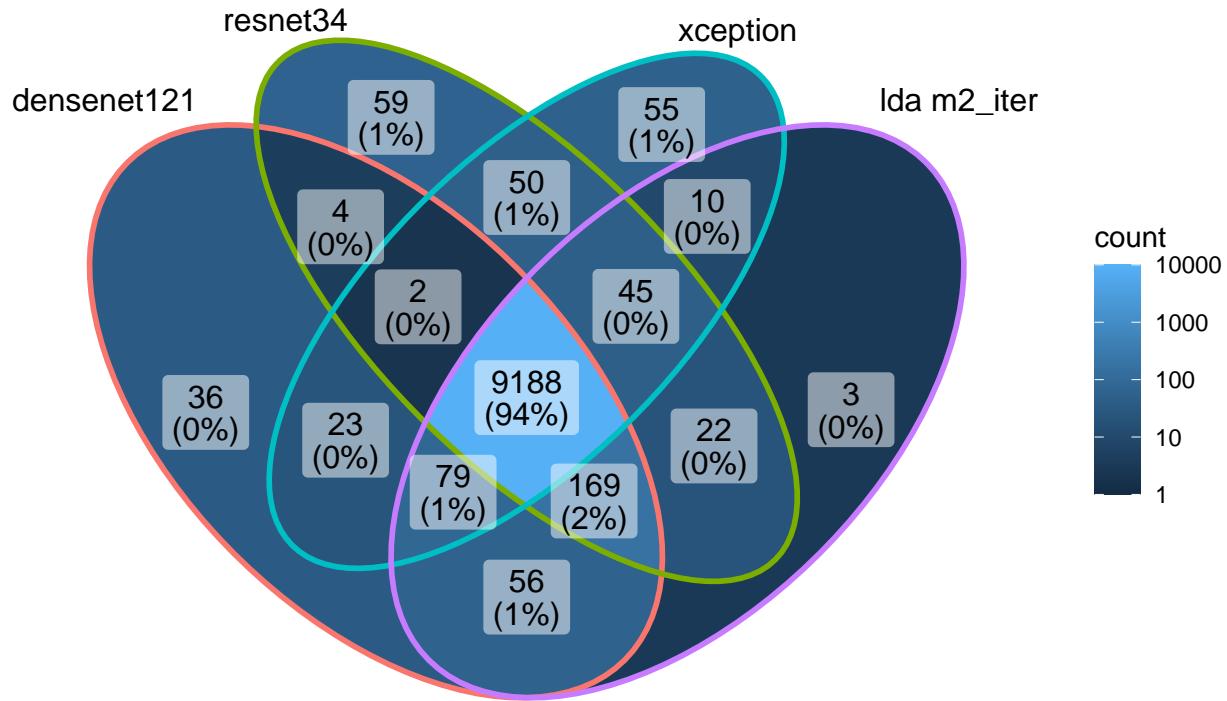


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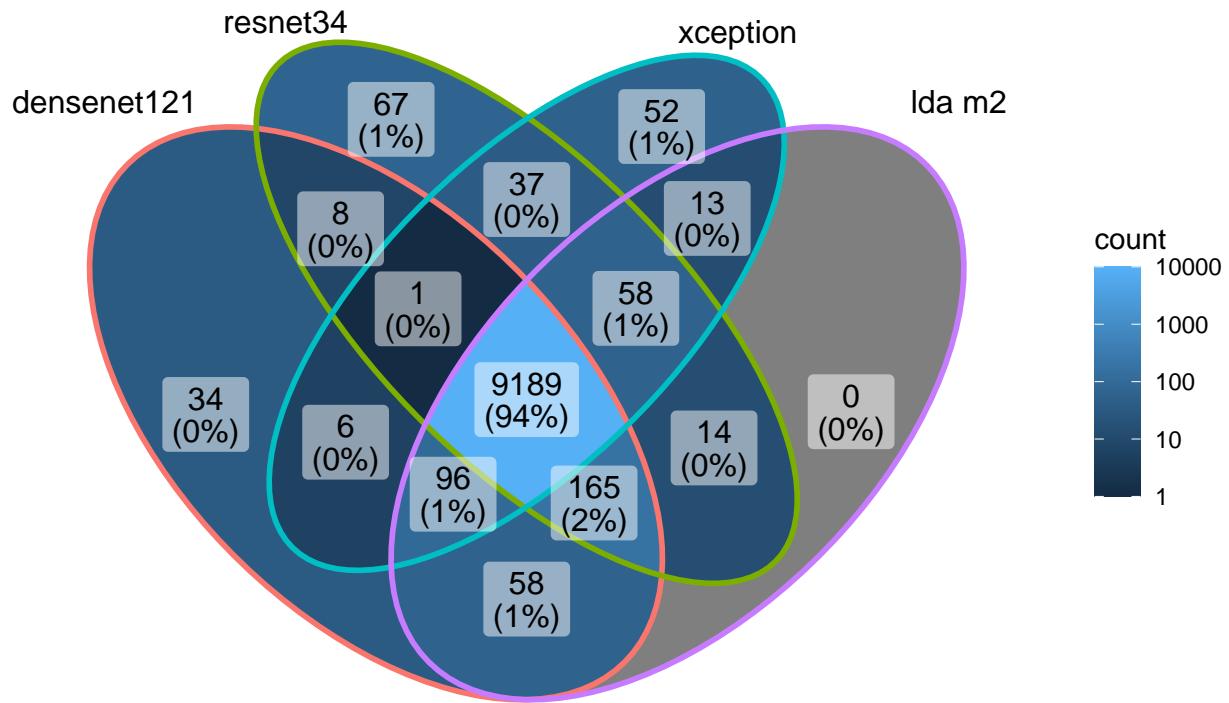


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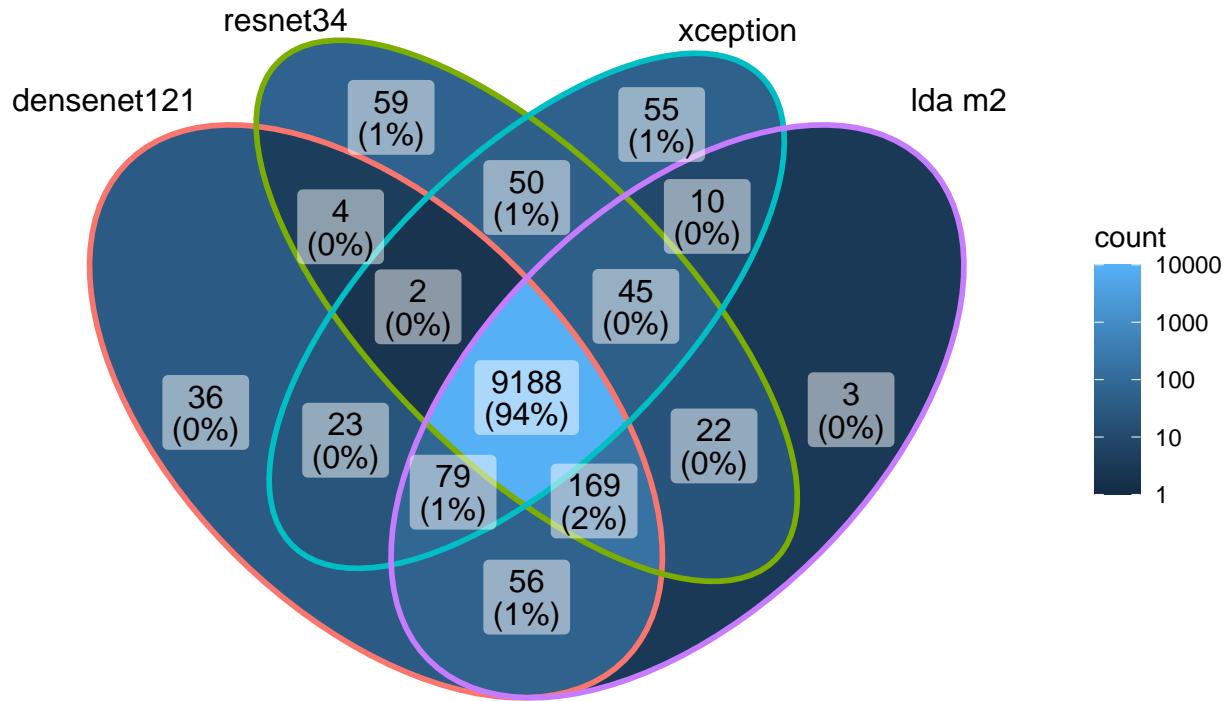


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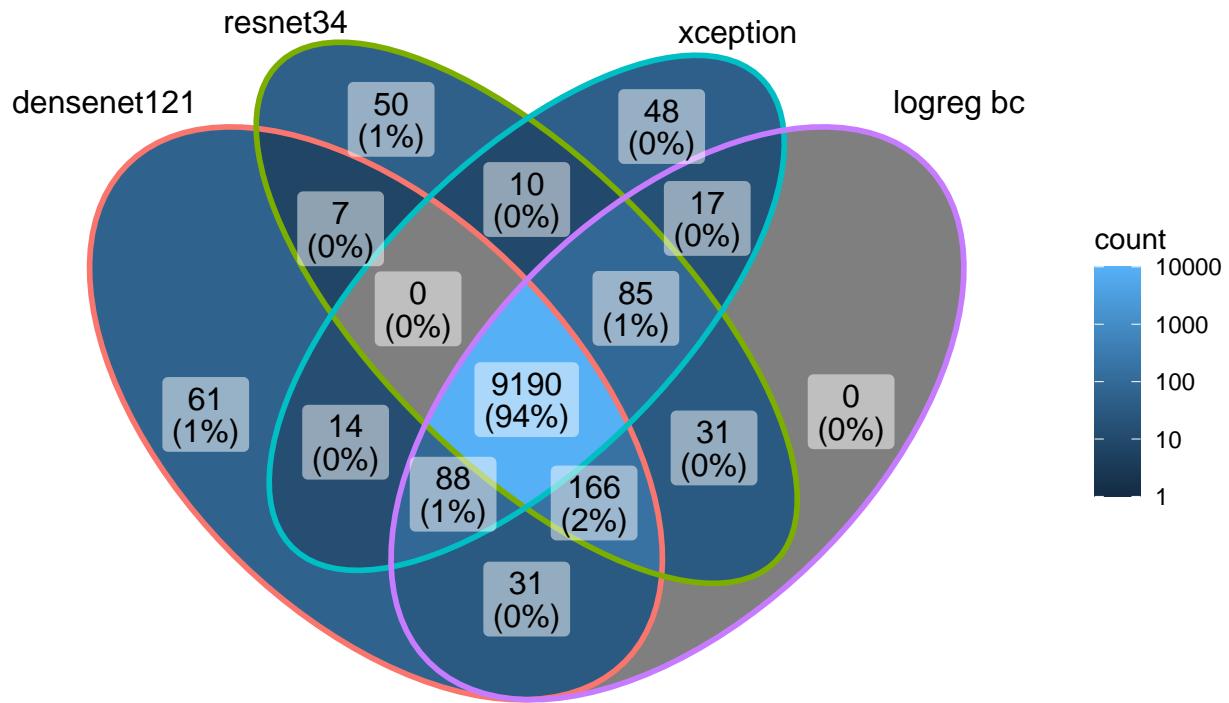


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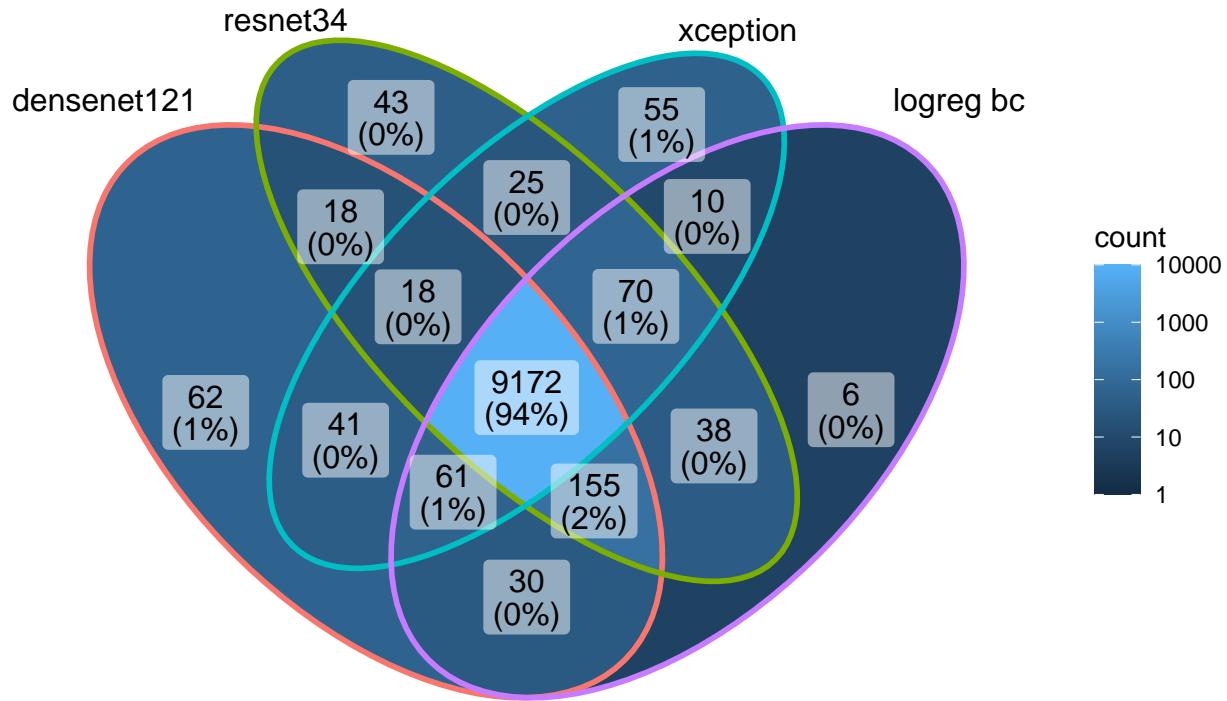


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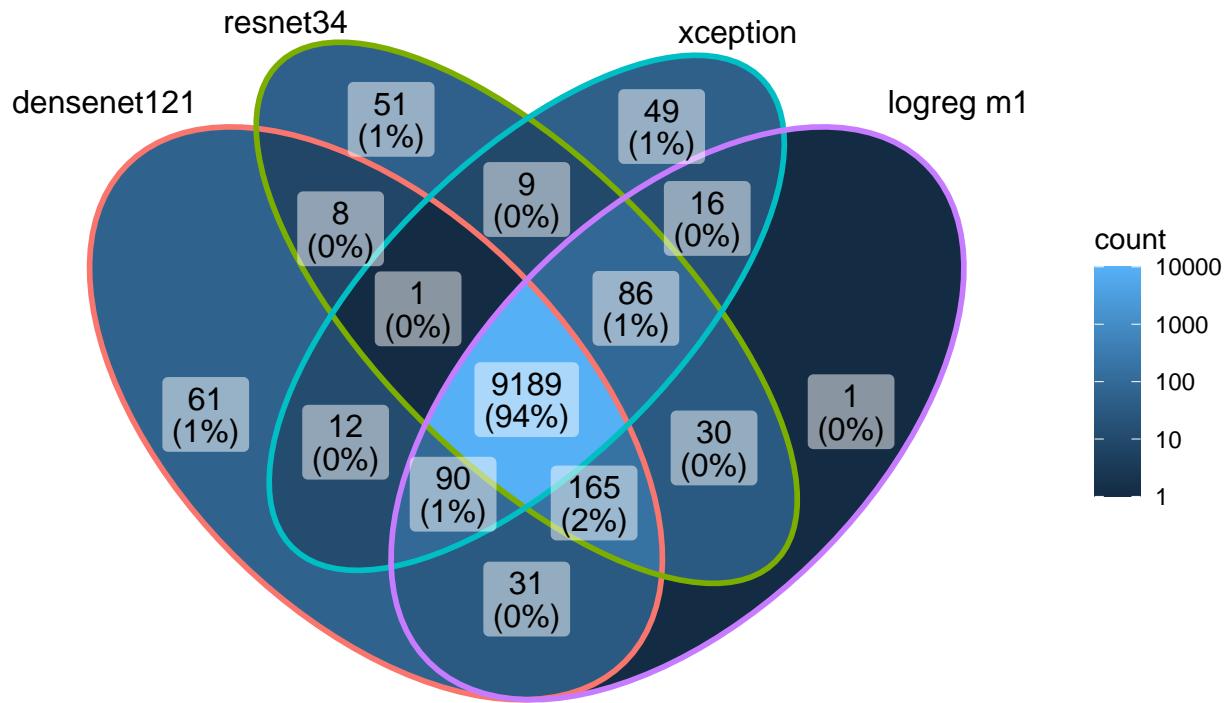
tt – replication 25



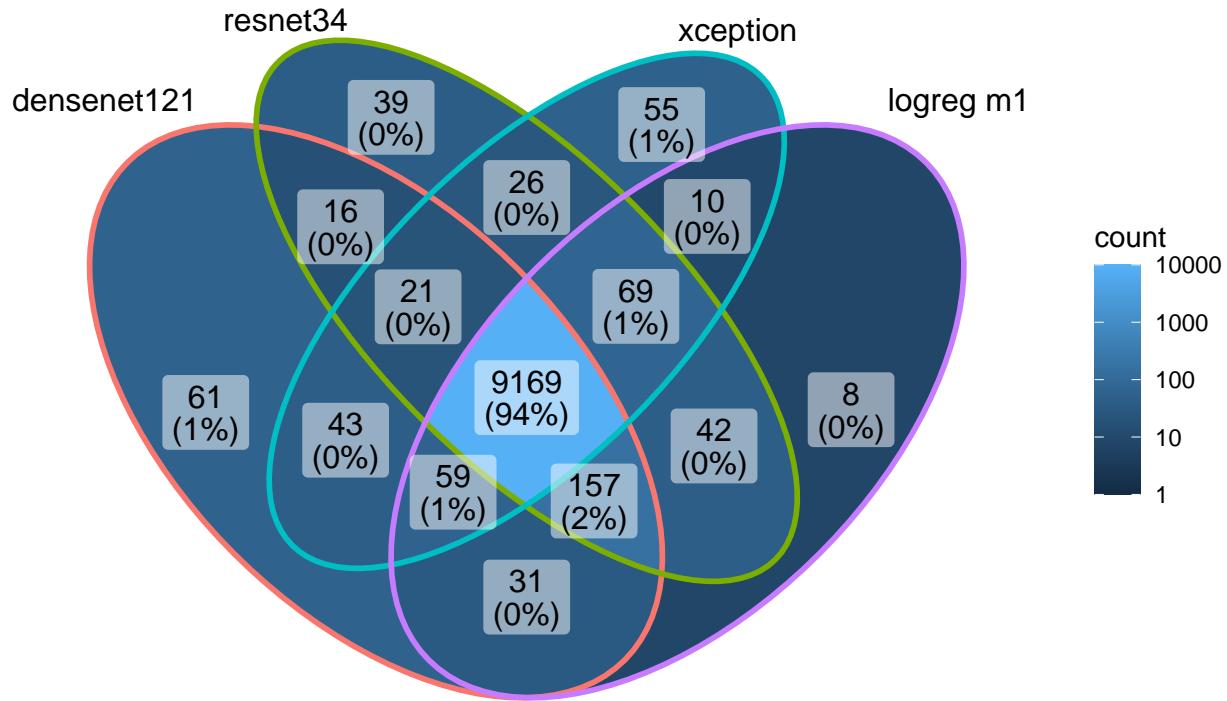
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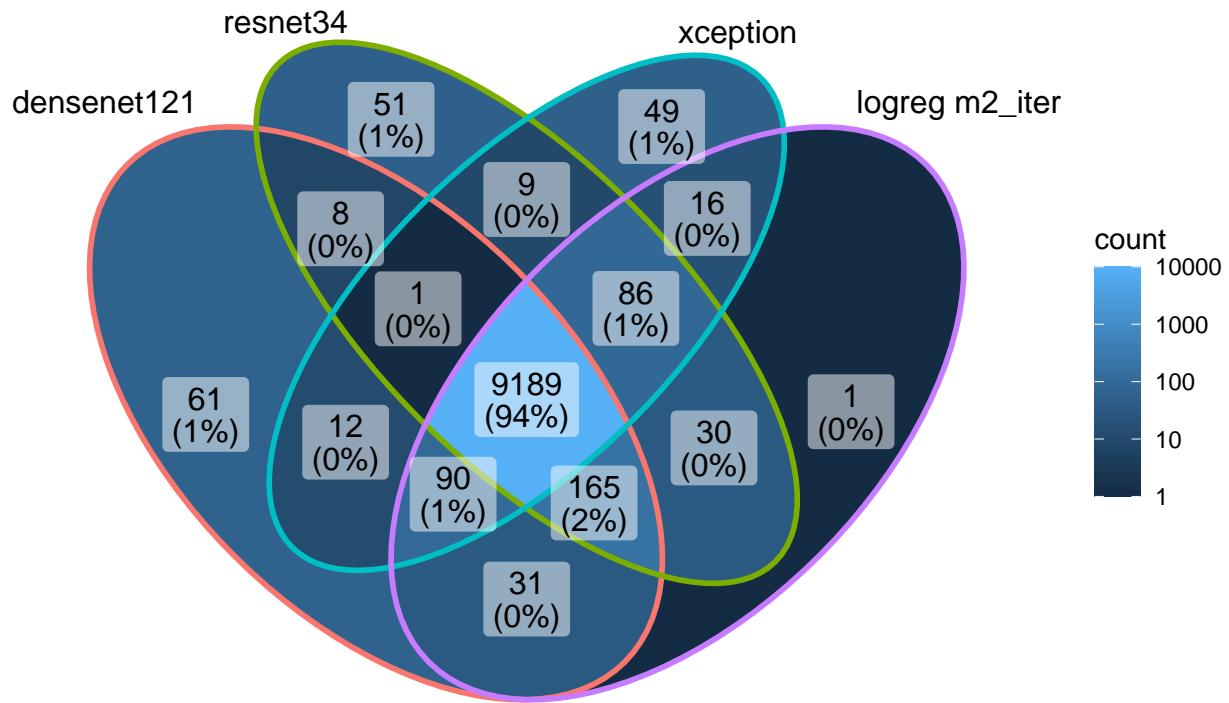
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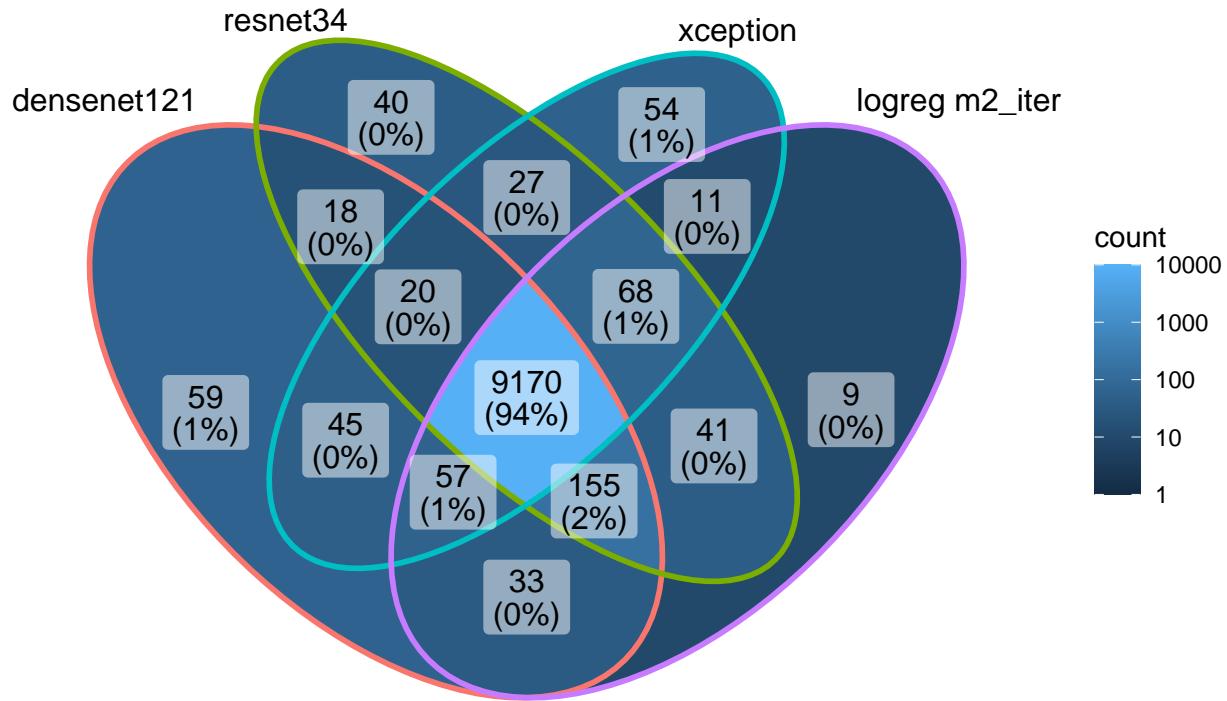
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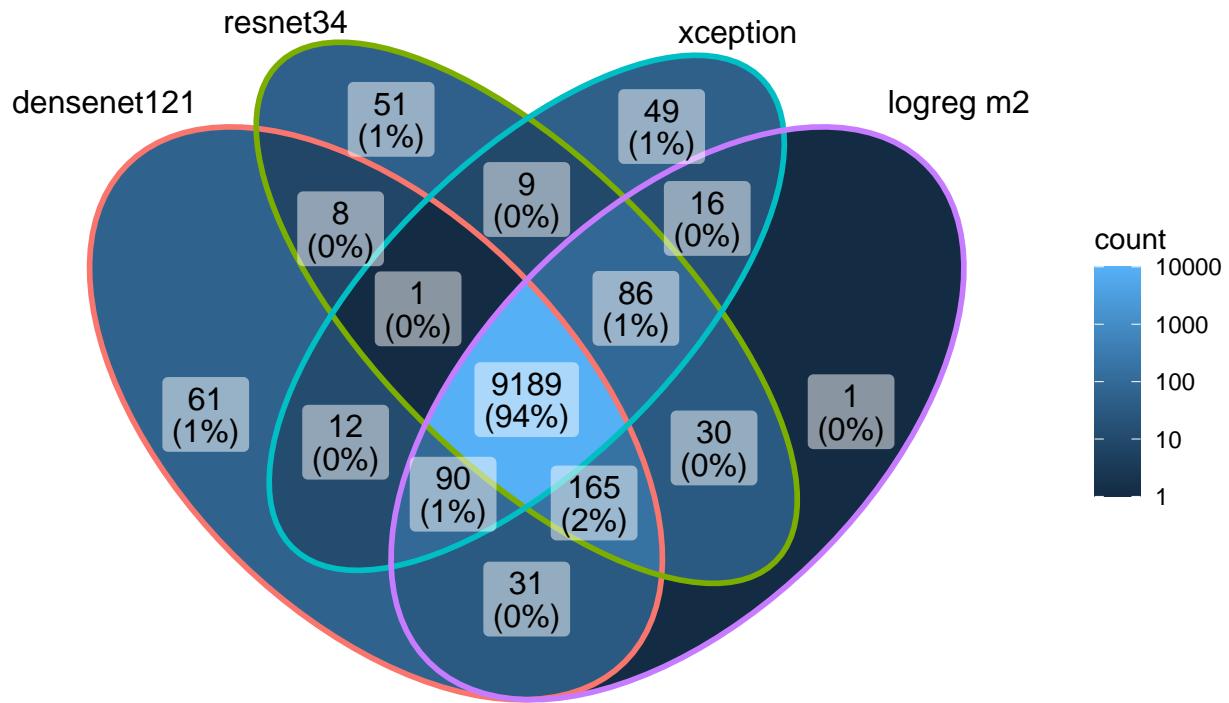
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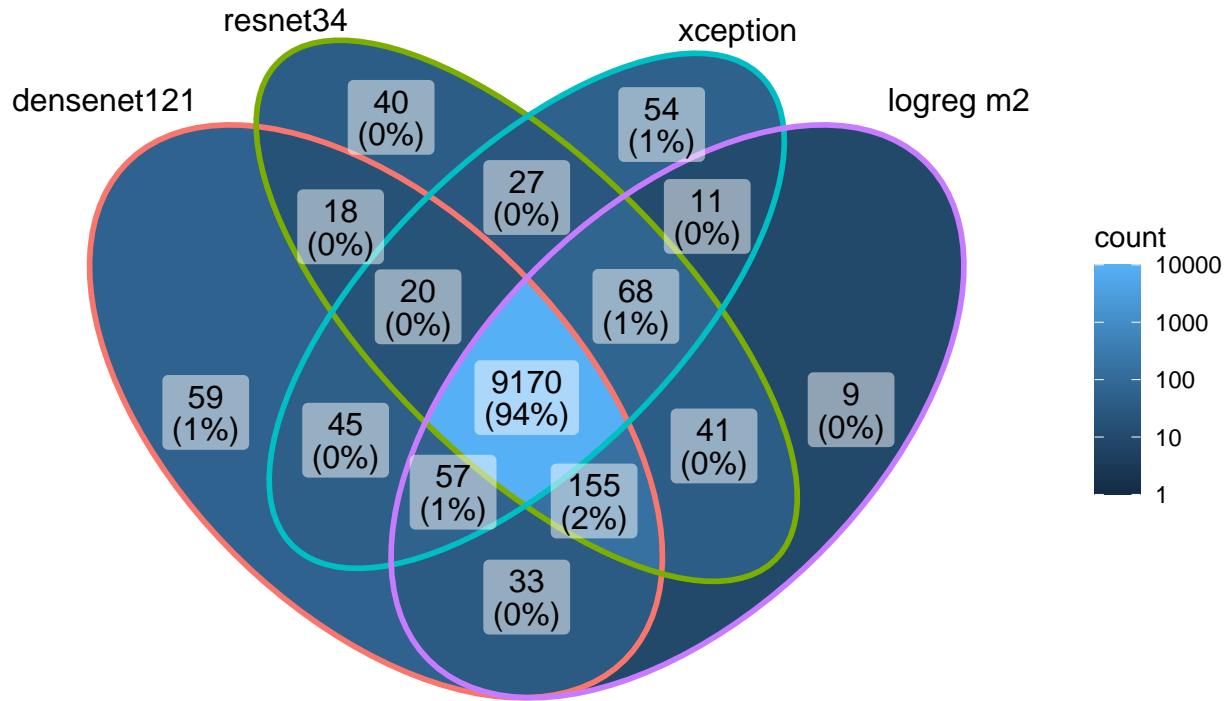
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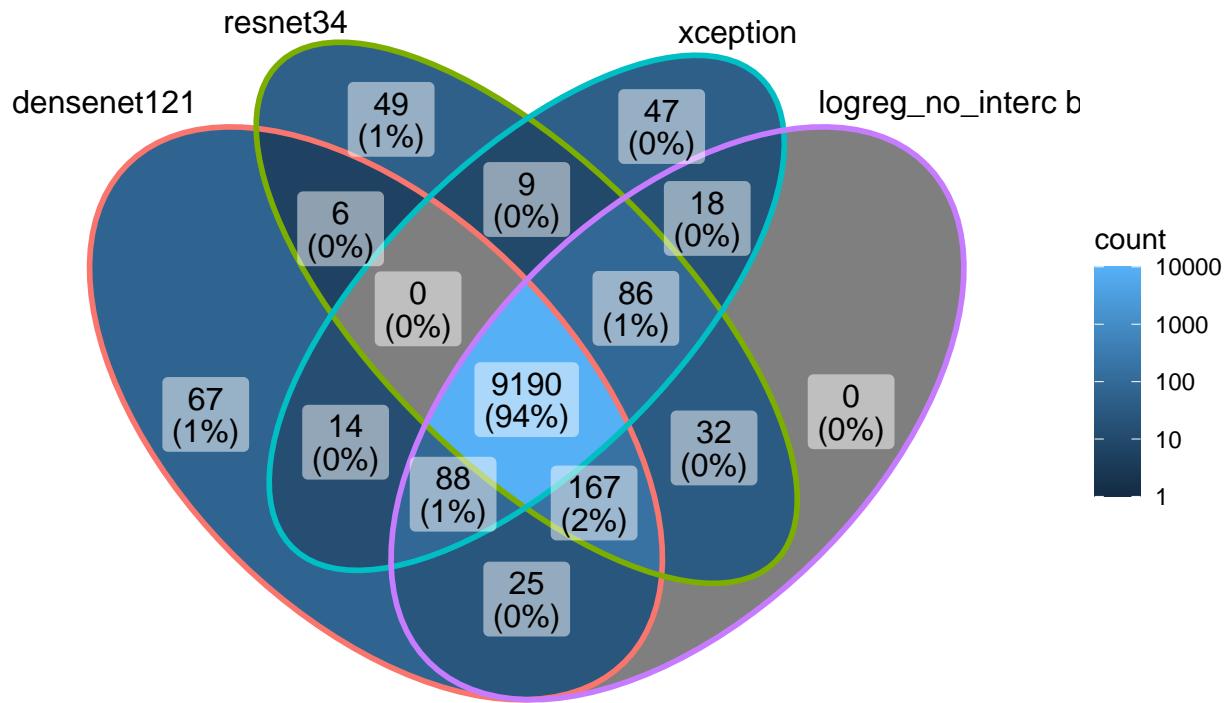


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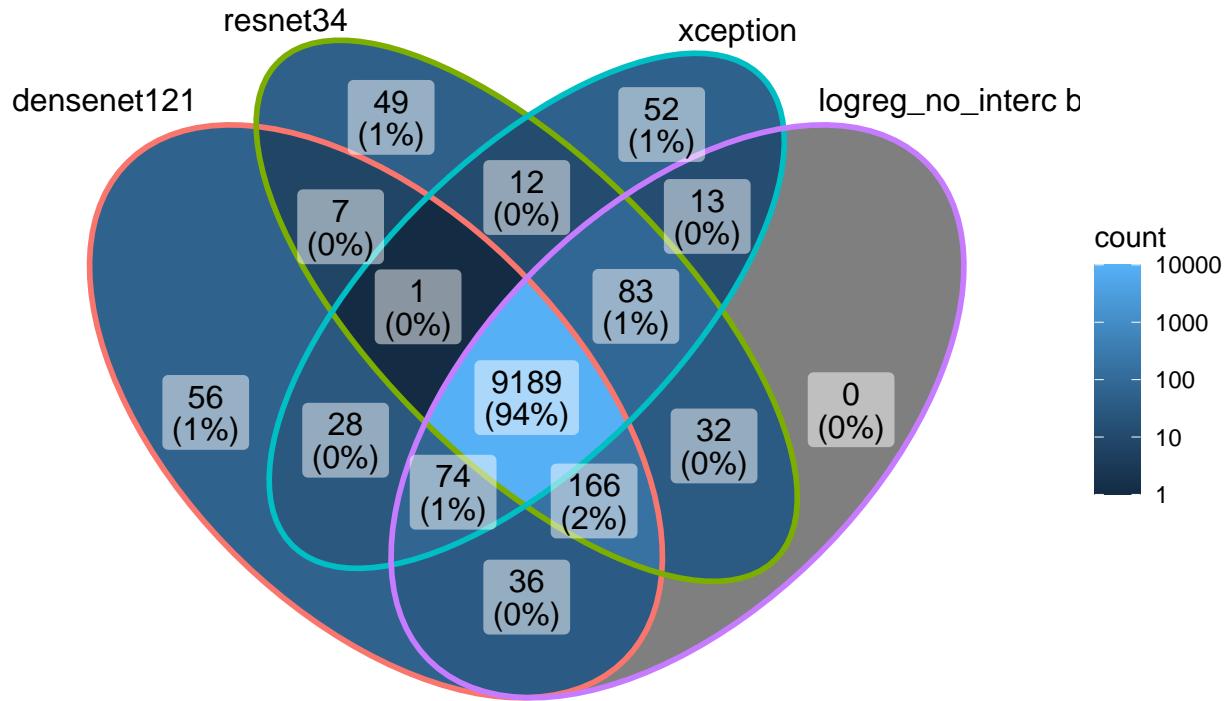
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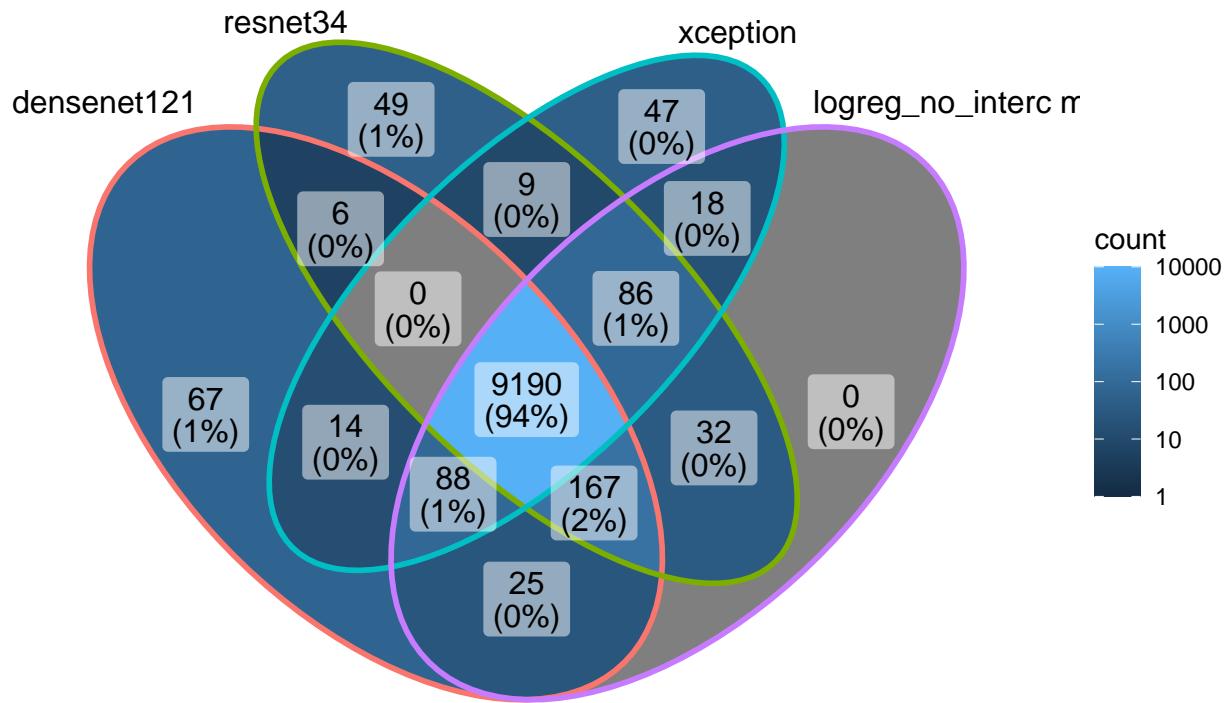
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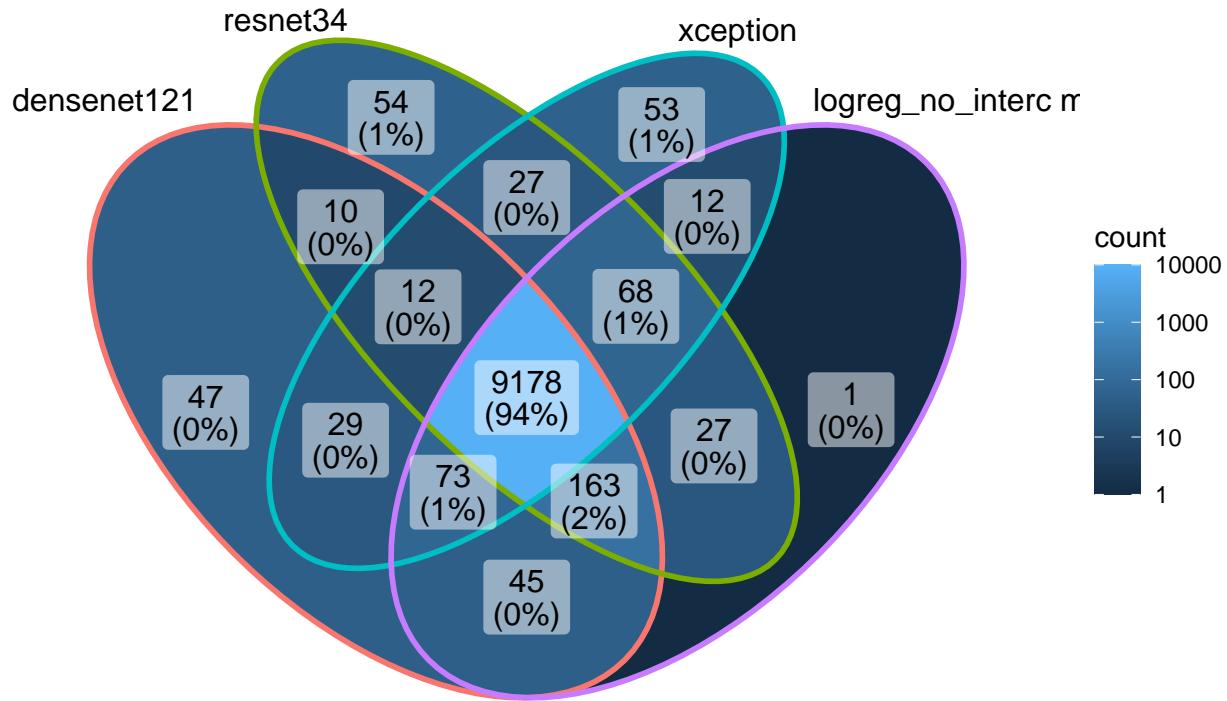


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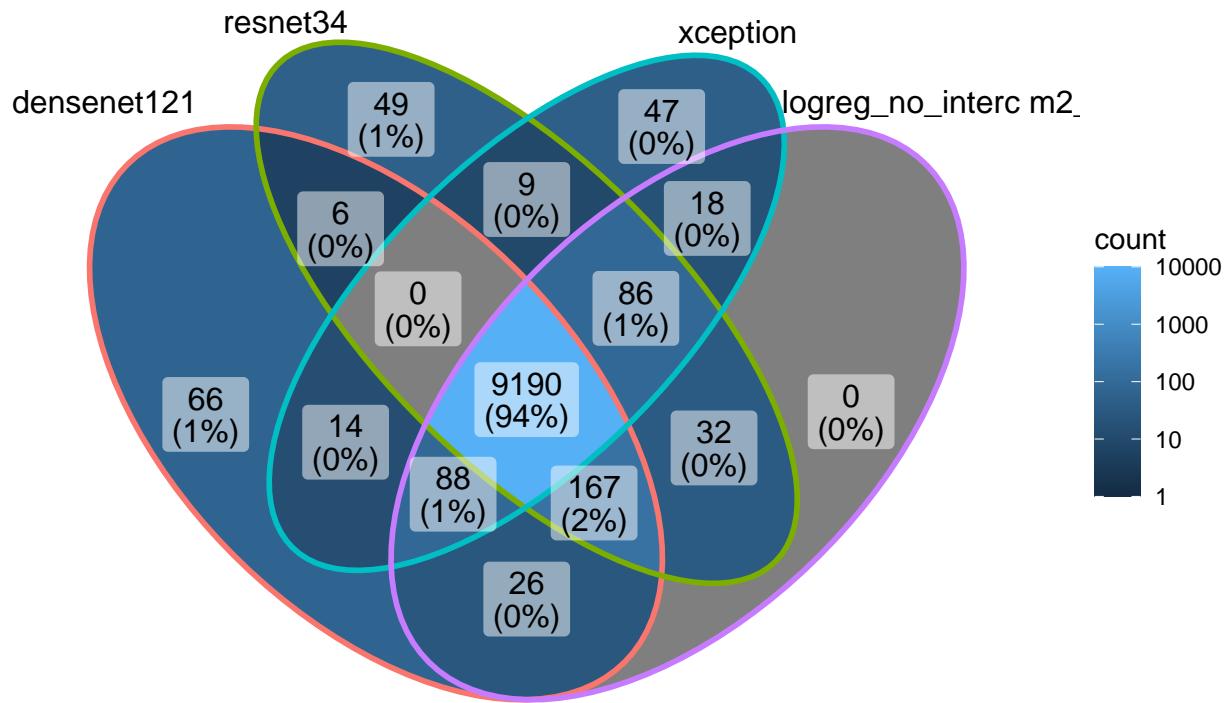


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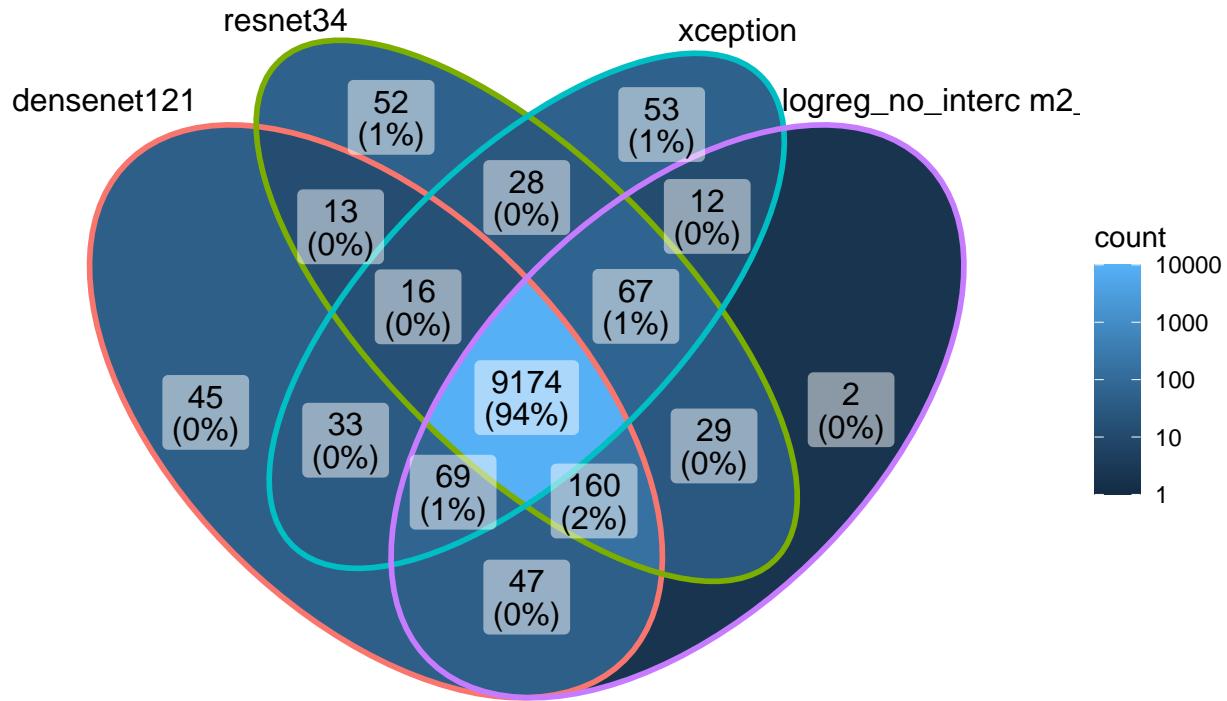


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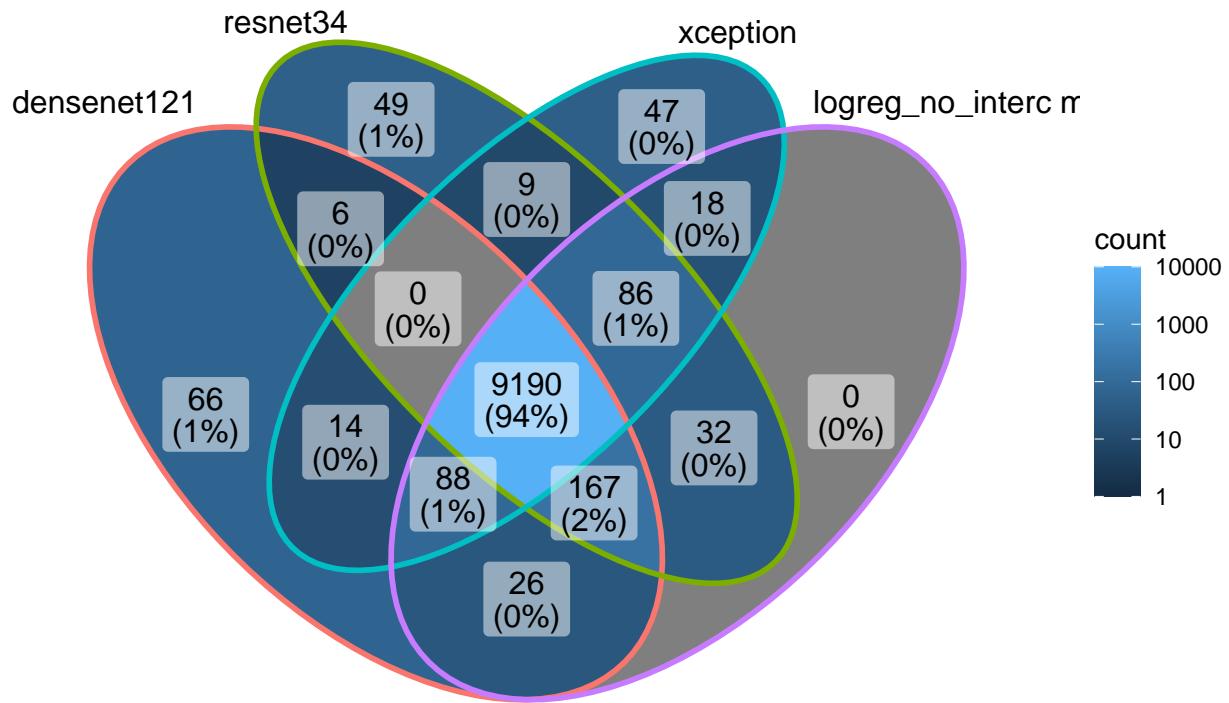


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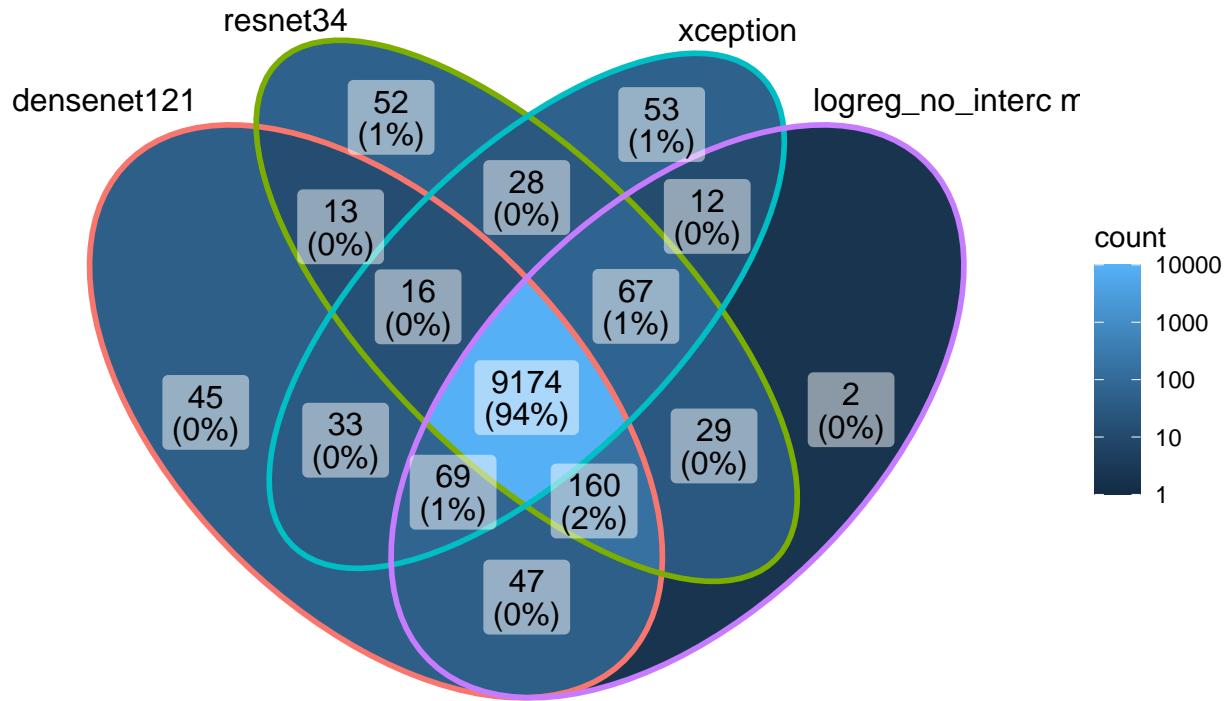


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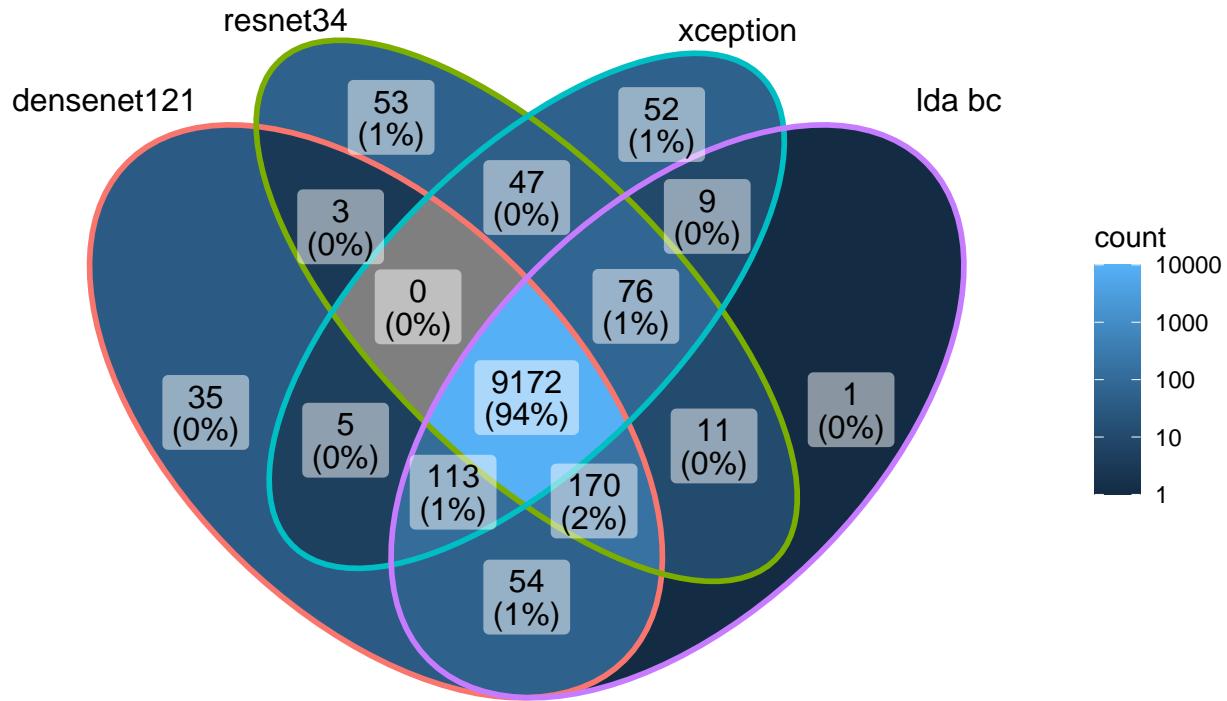


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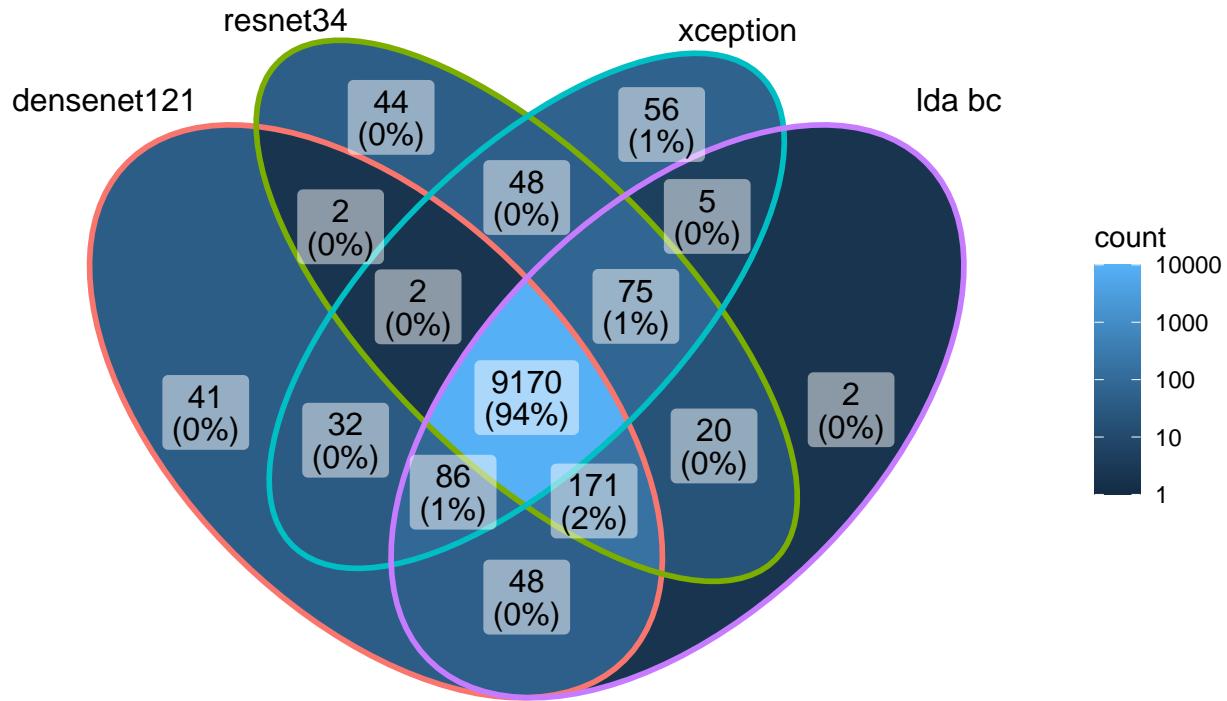


Warning: Transformation introduced infinite values in discrete y-axis

tt – replication 26

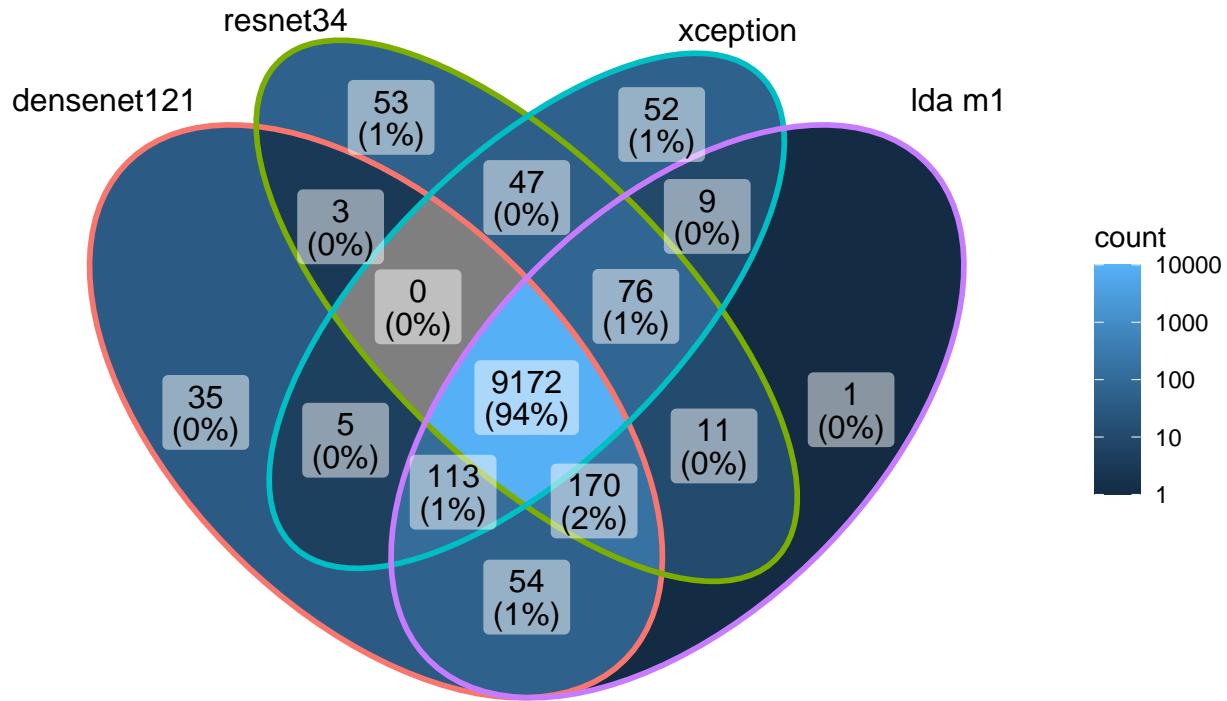


vt – replication 26

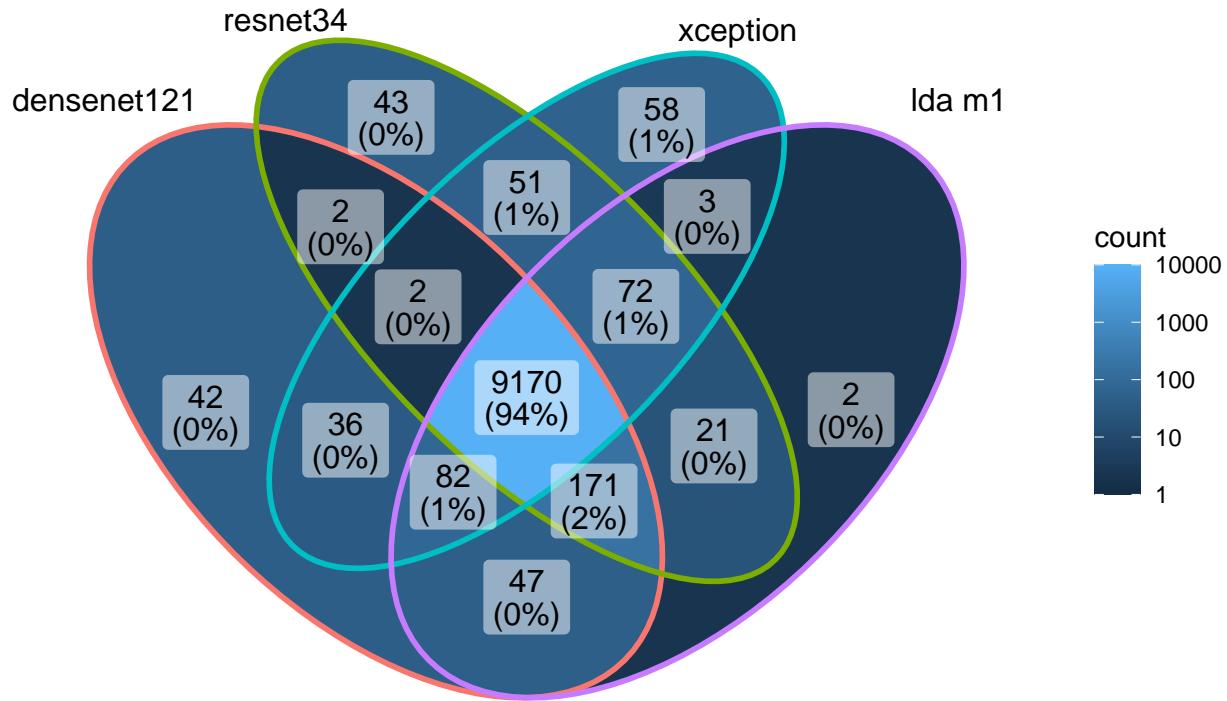


Warning: Transformation introduced infinite values in discrete y-axis

tt – replication 26

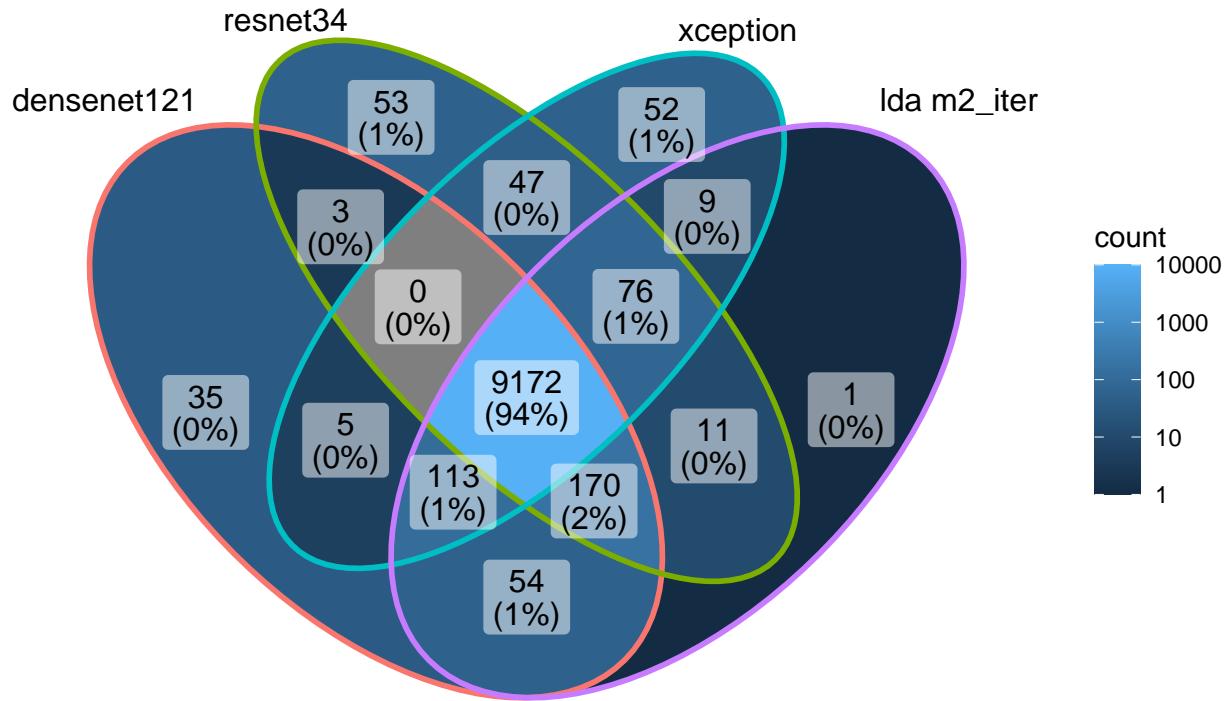


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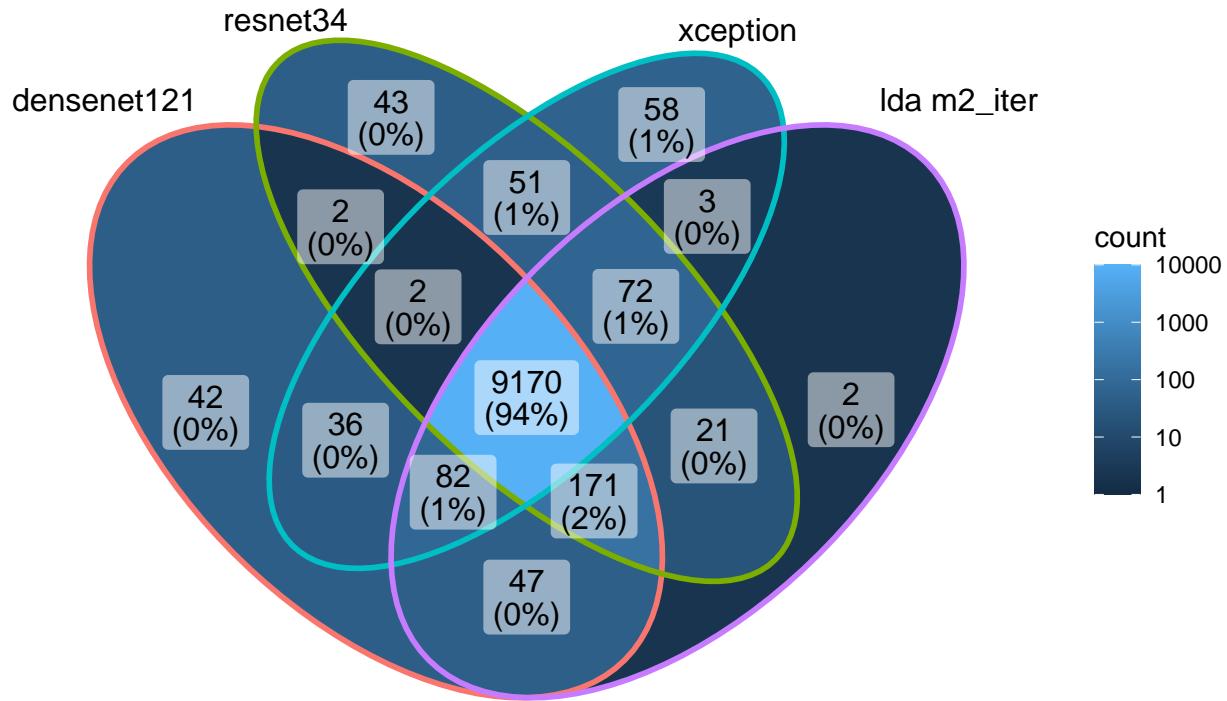


Warning: Transformation introduced infinite values in discrete y-axis

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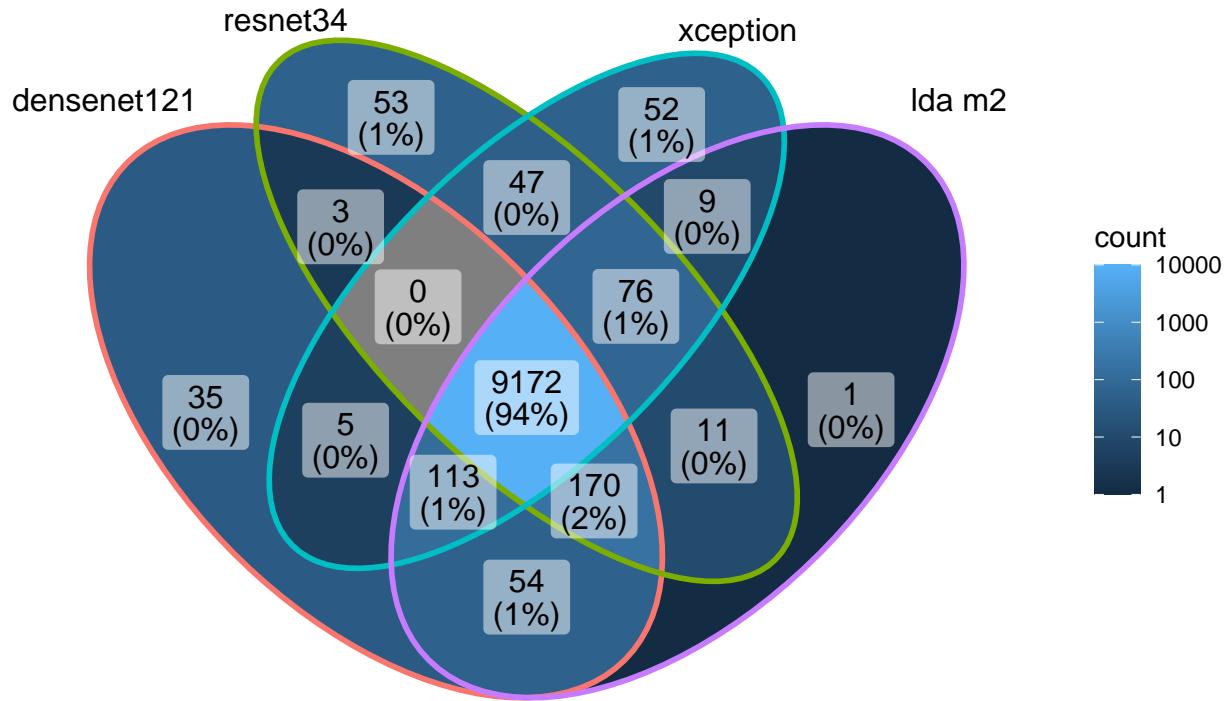


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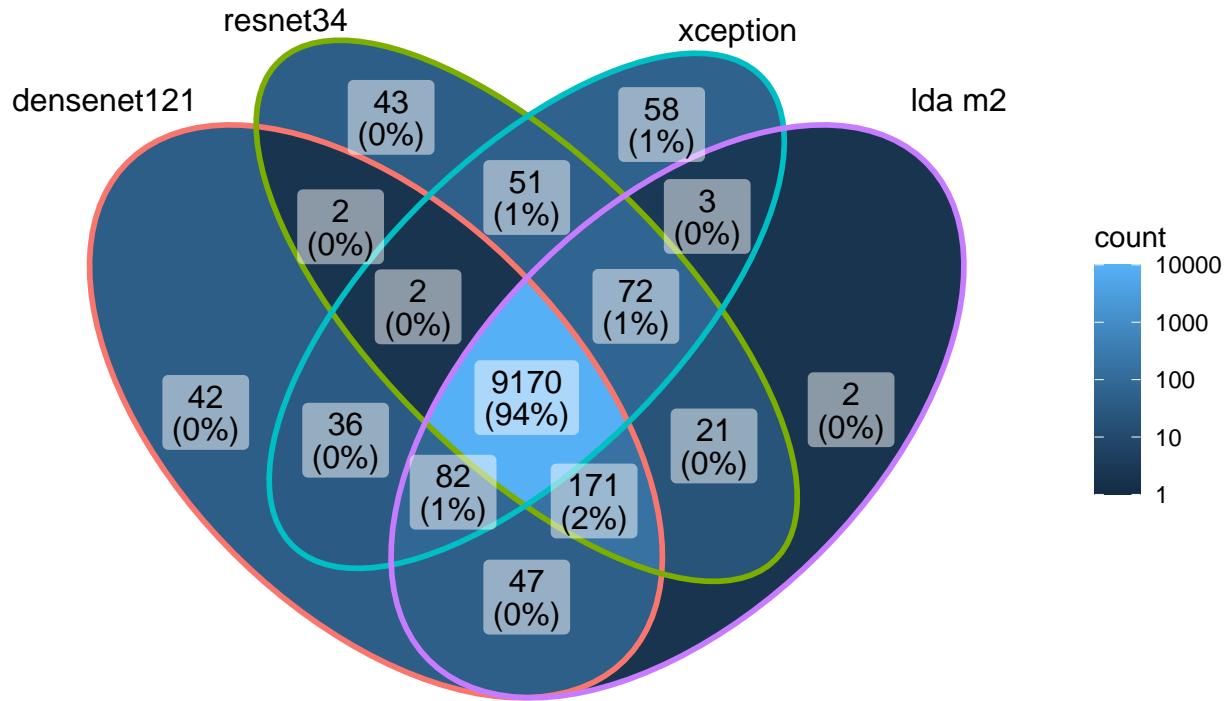


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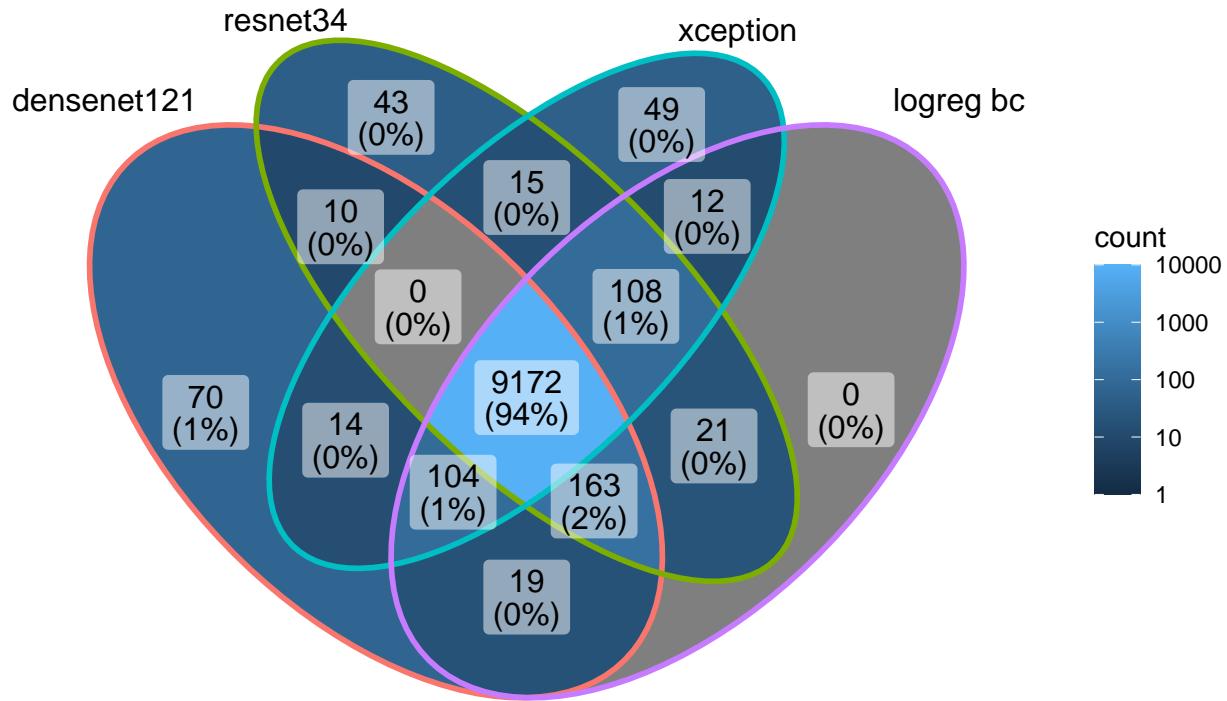


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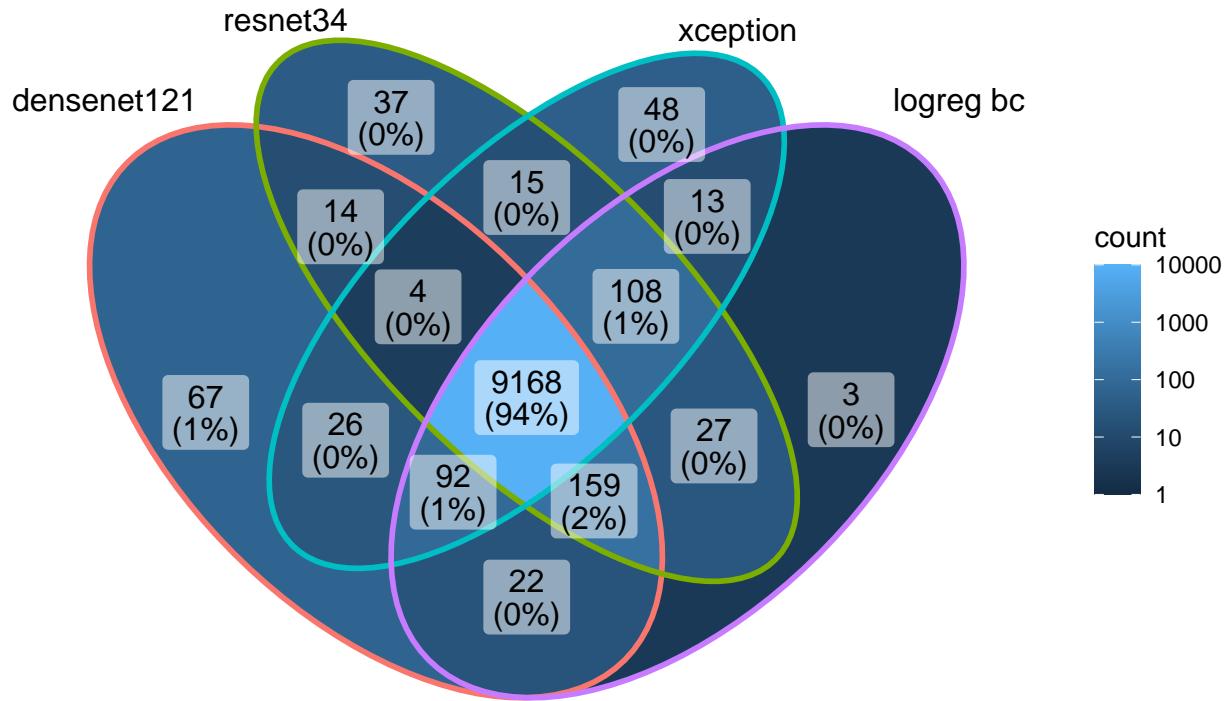


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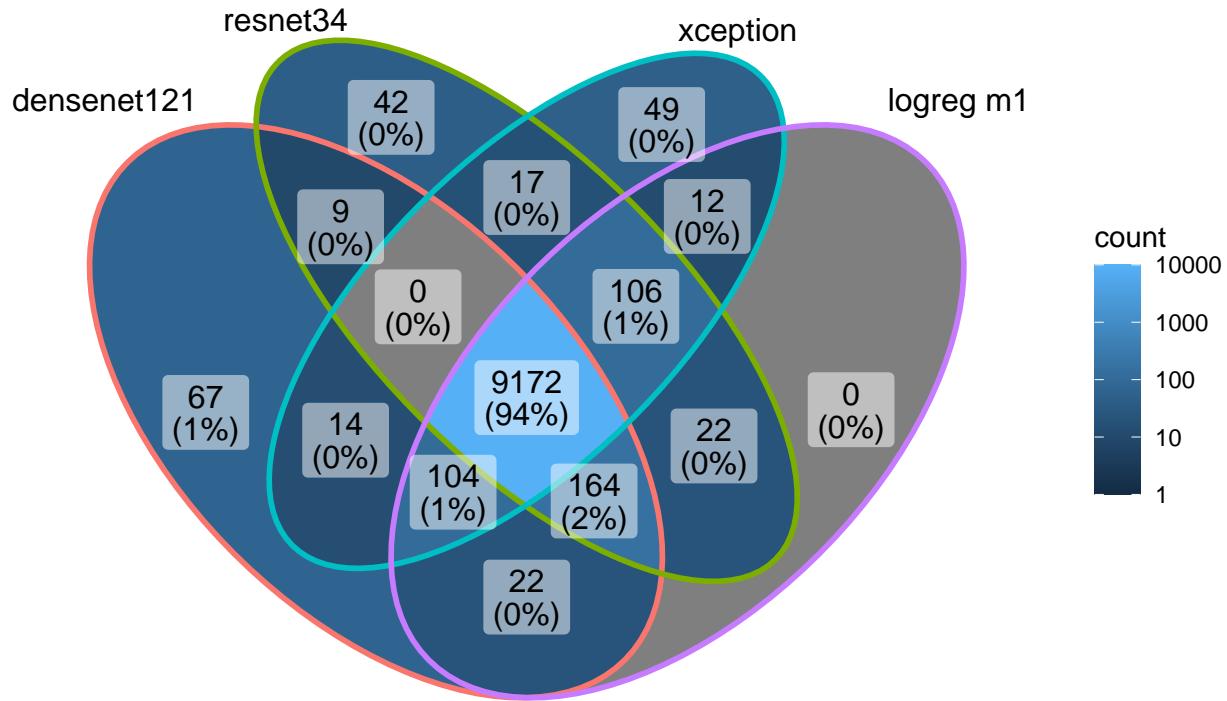


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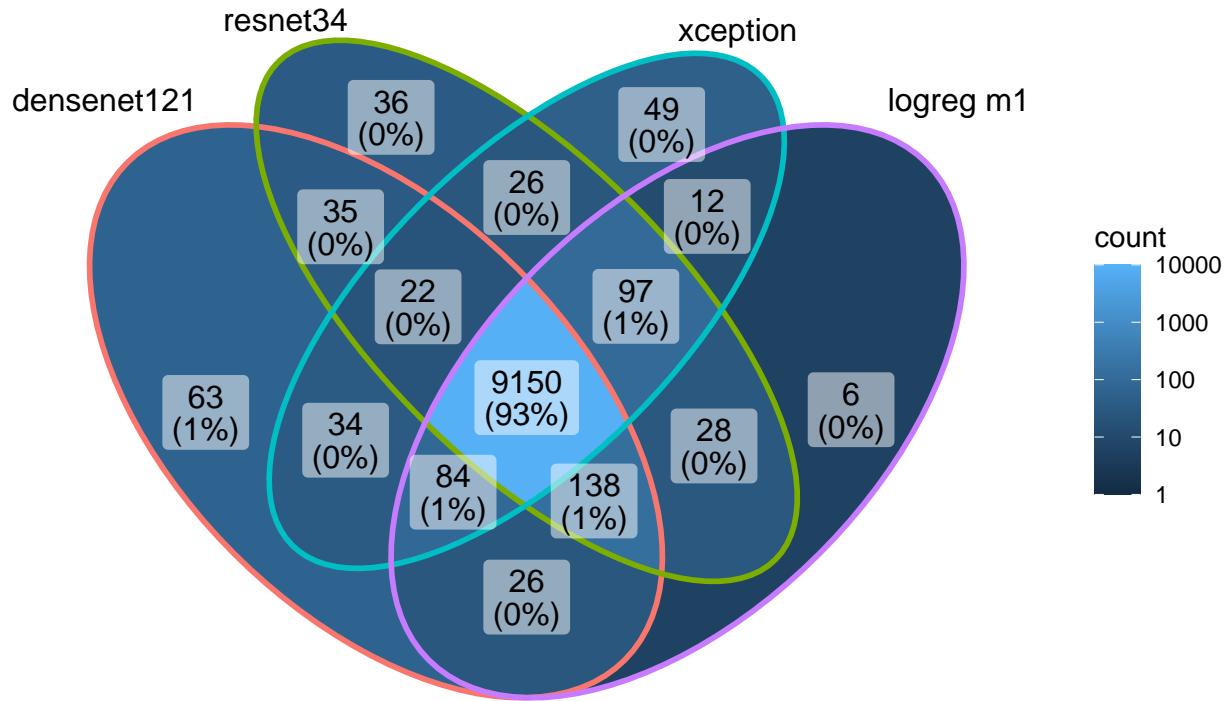


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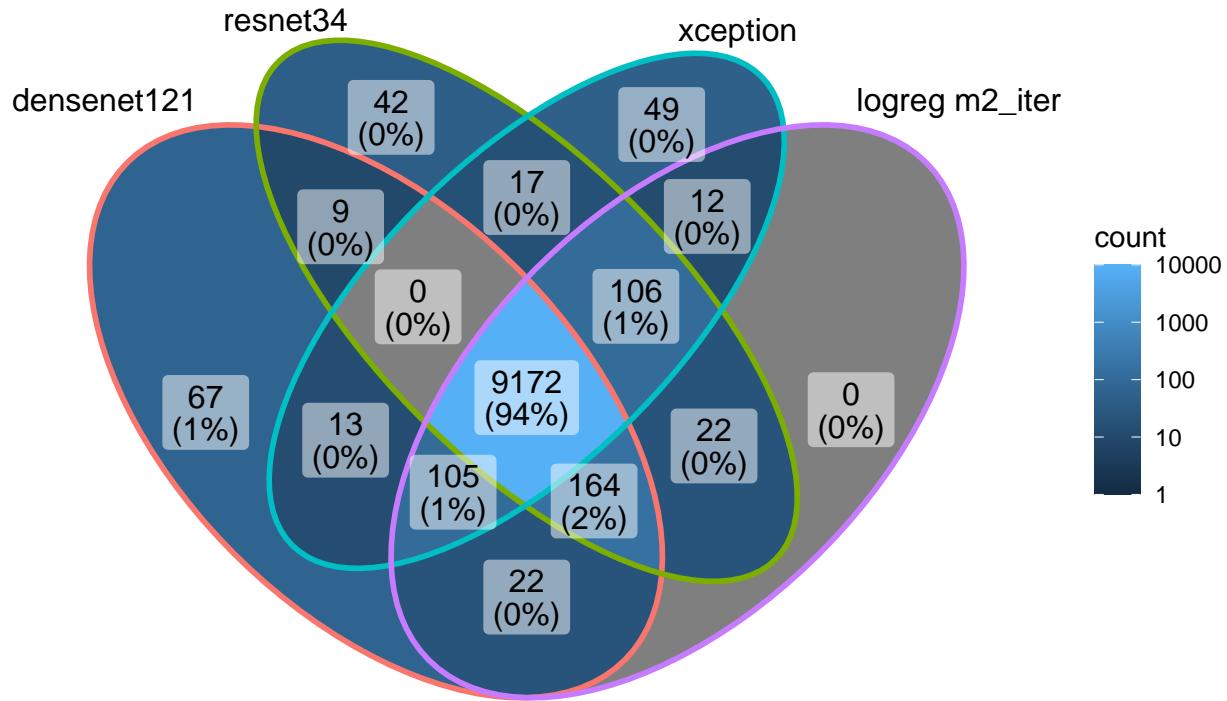


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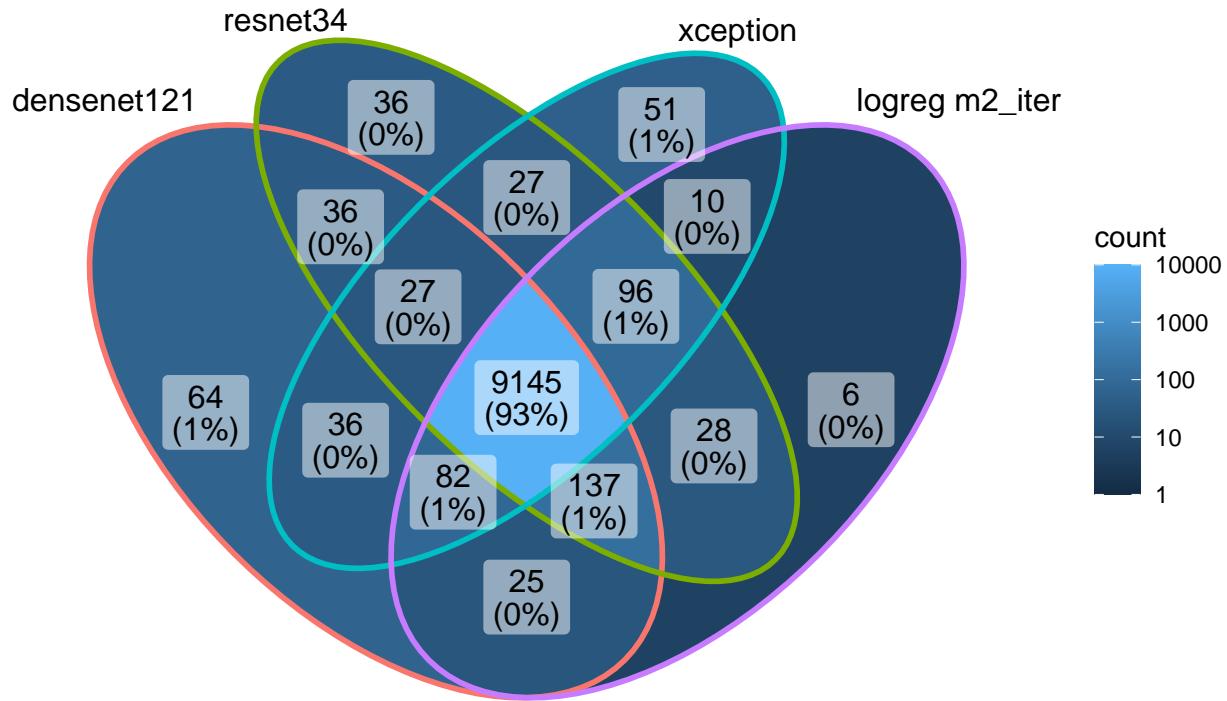


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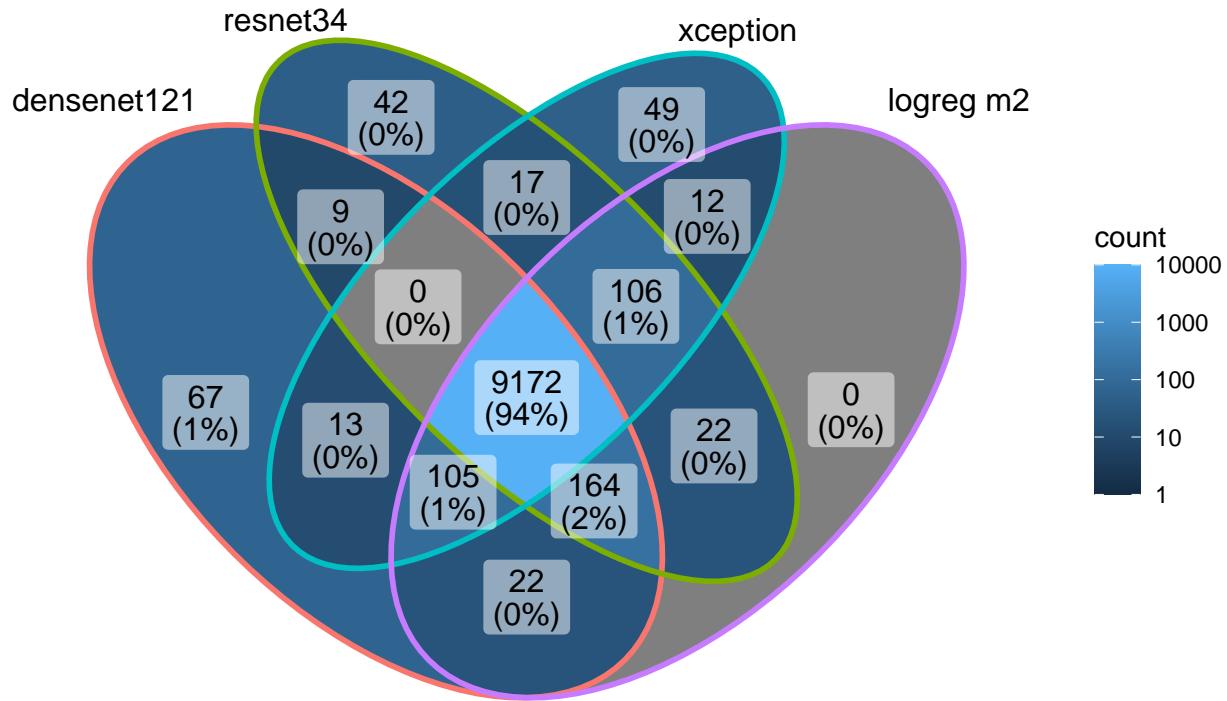


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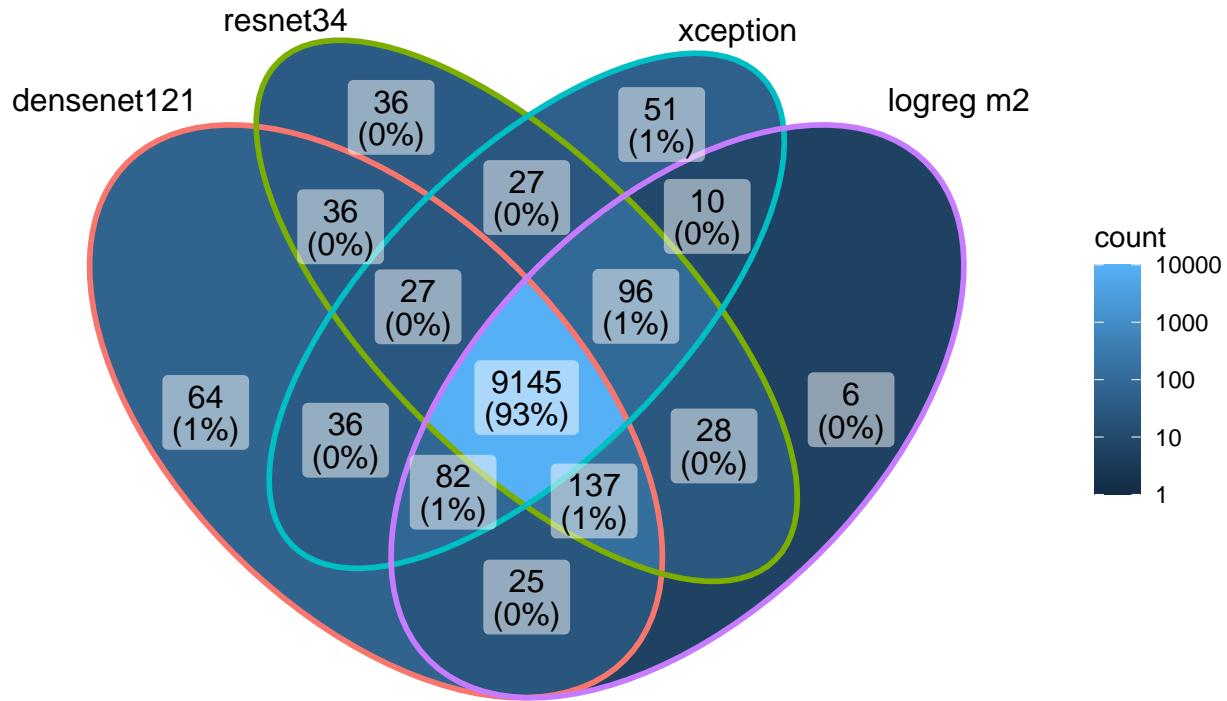


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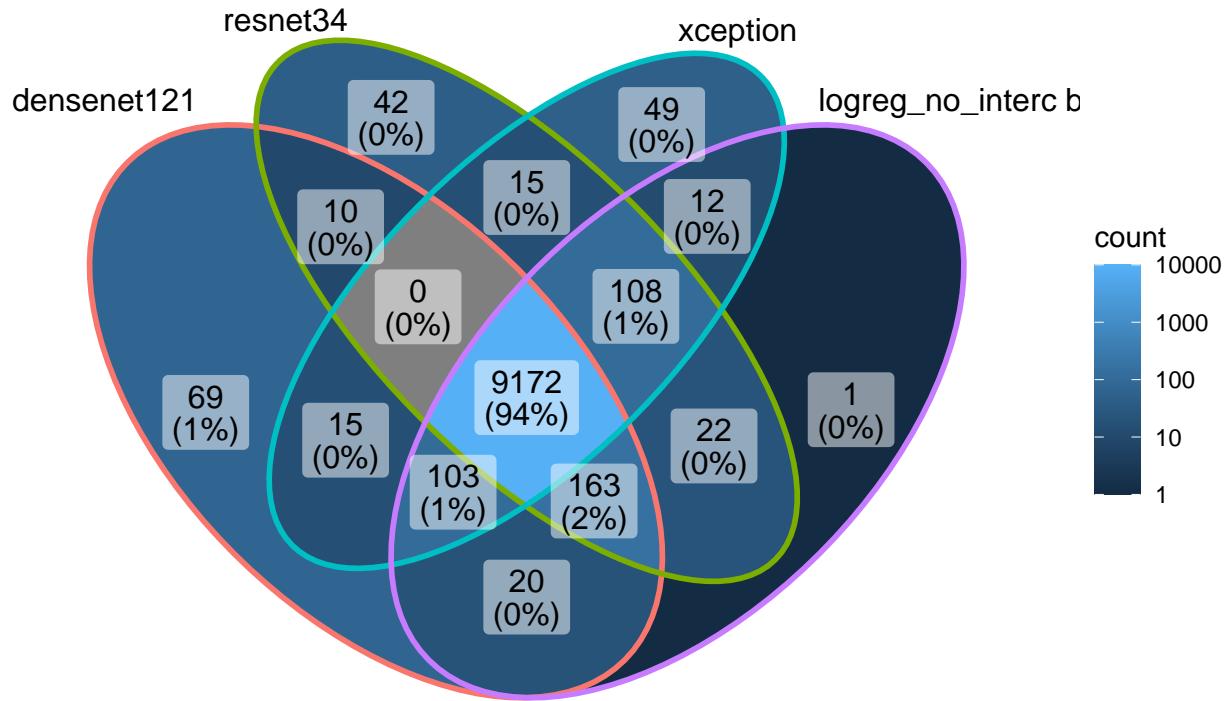


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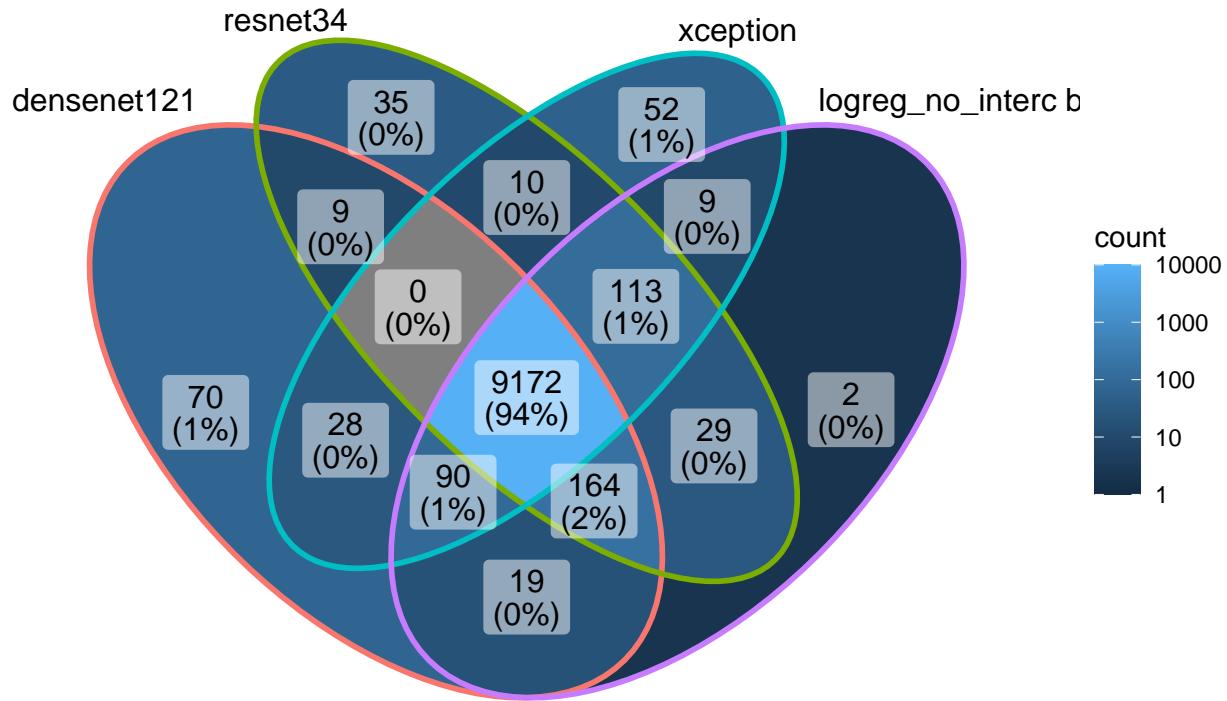
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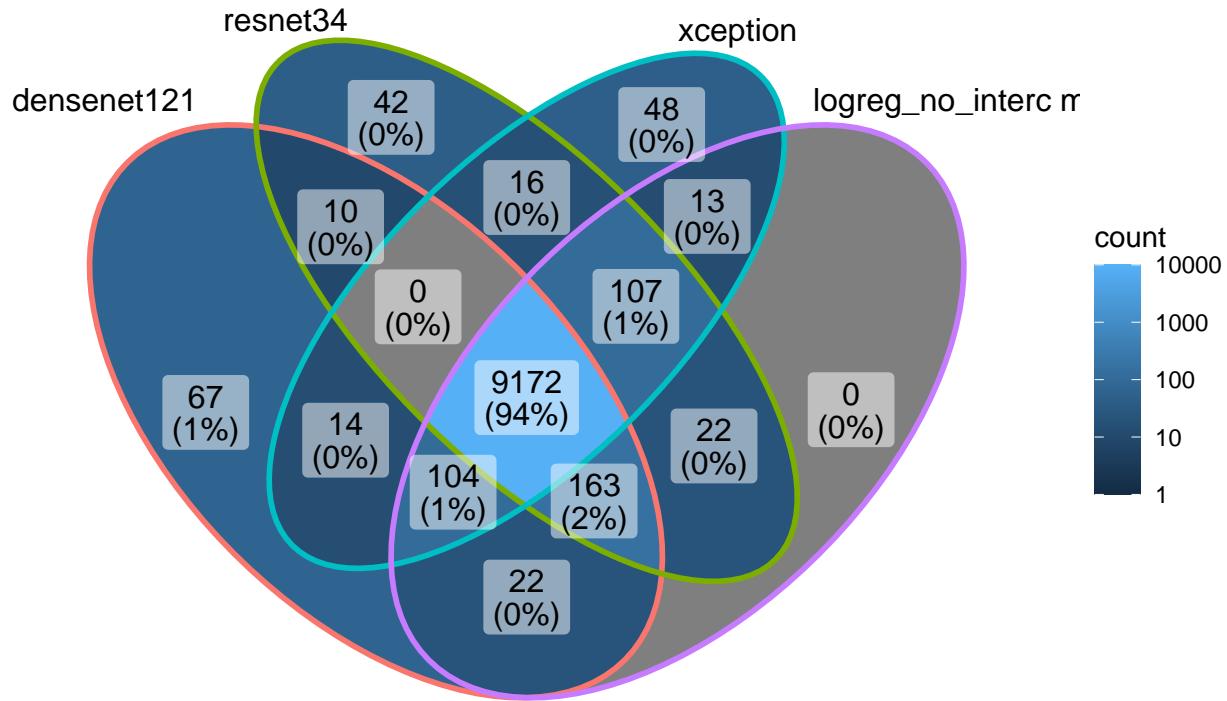
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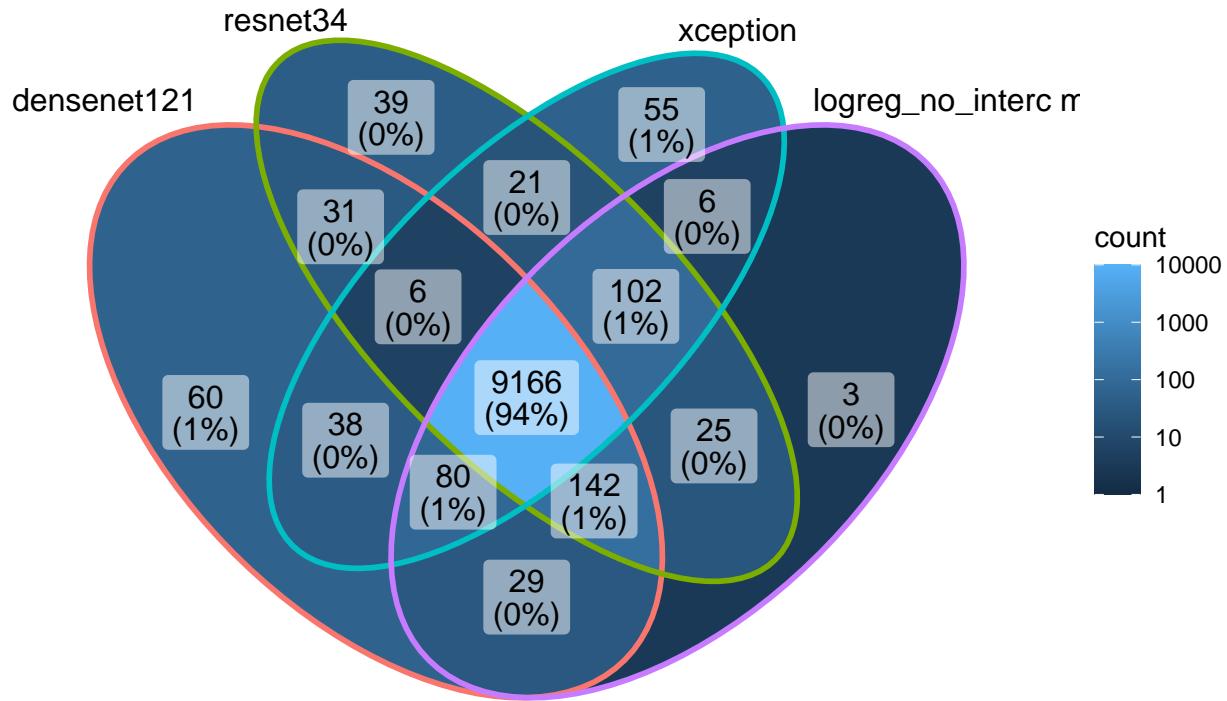


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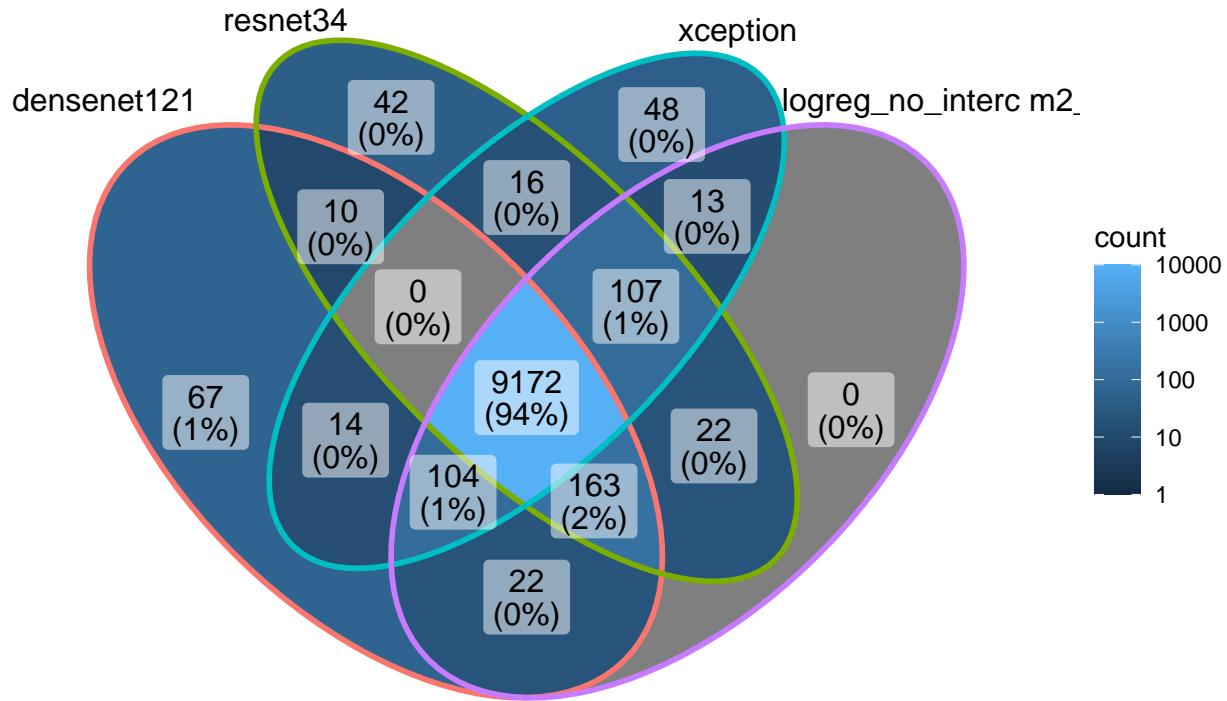


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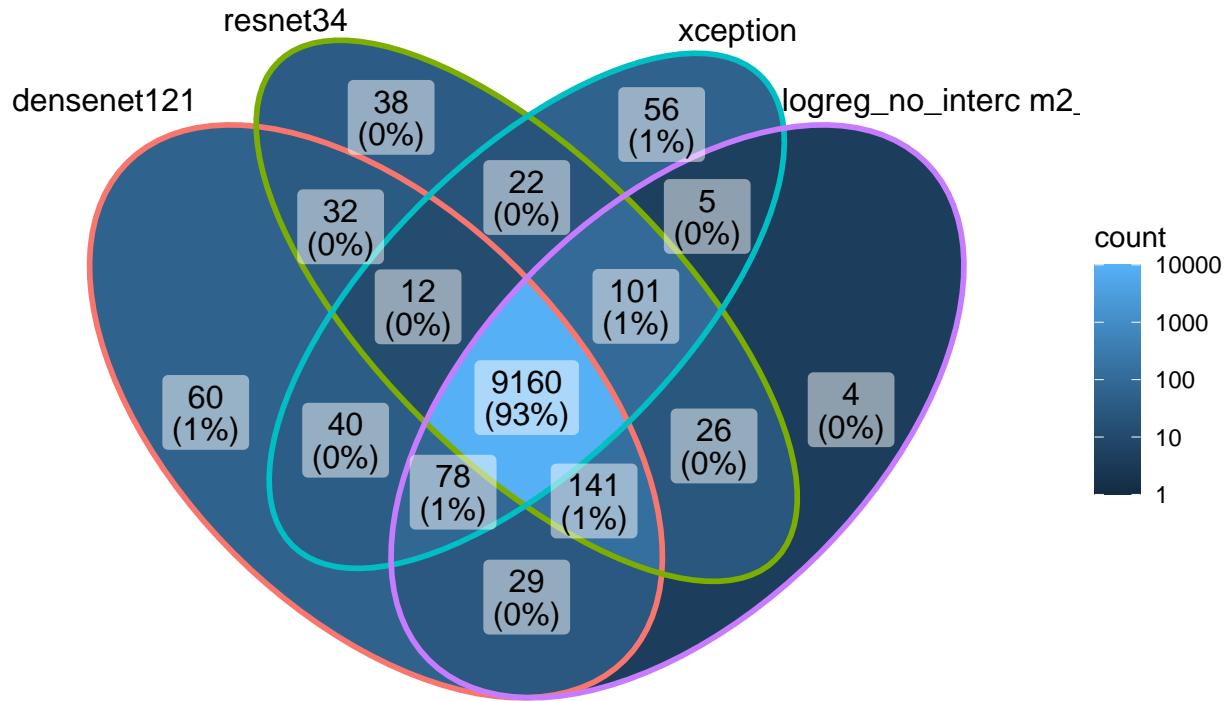


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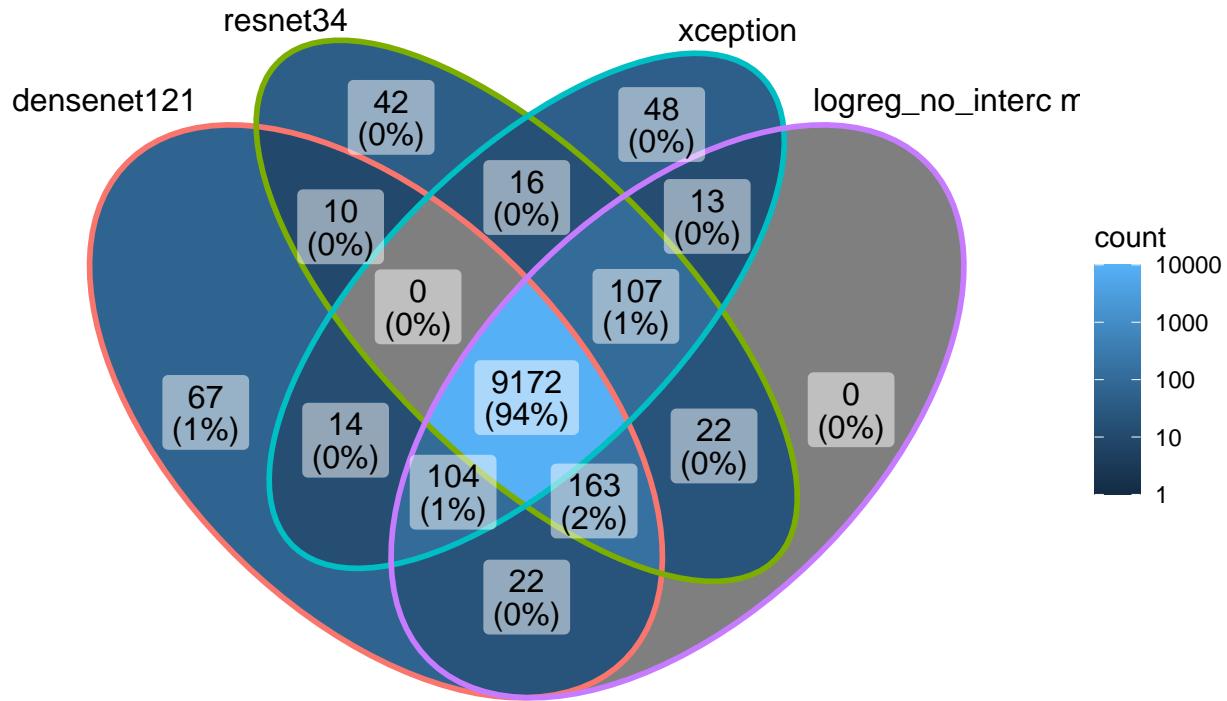


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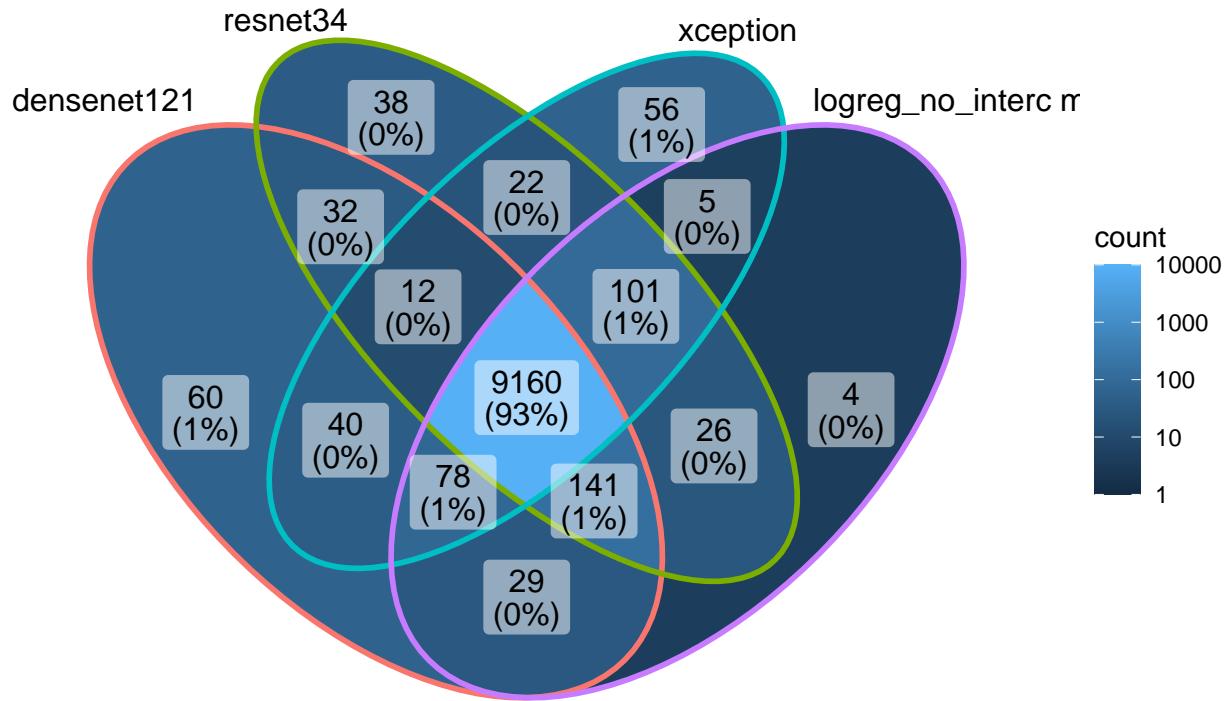


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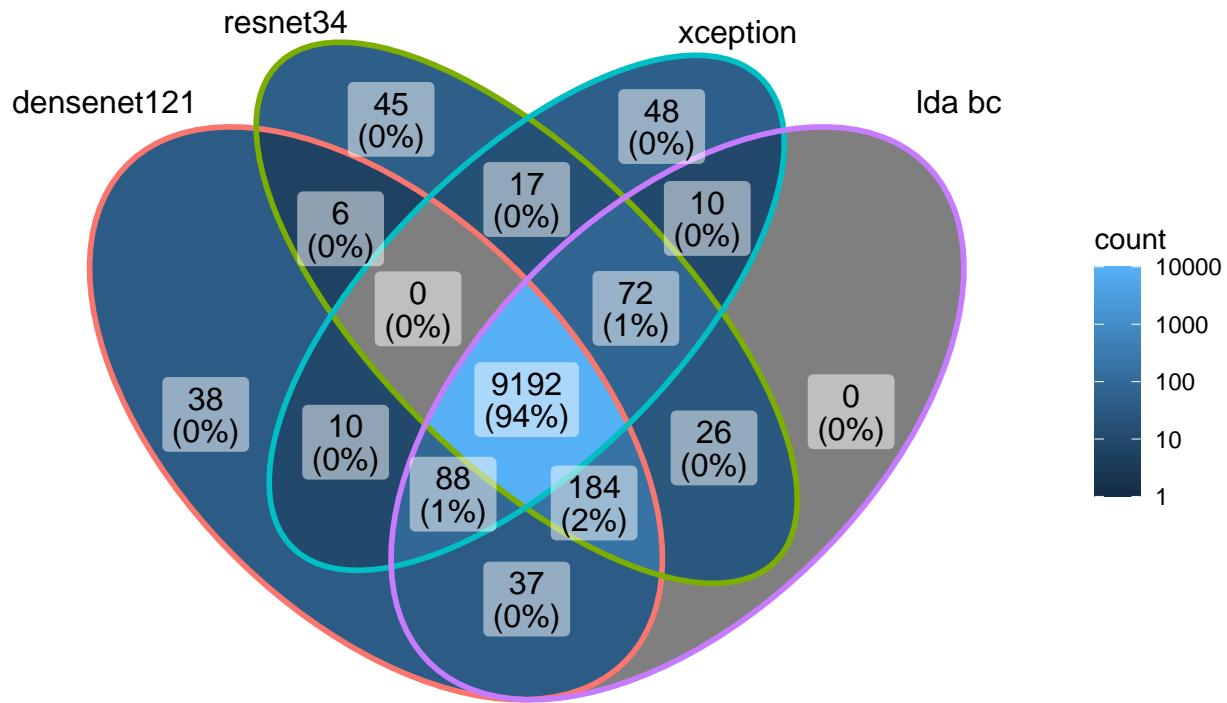


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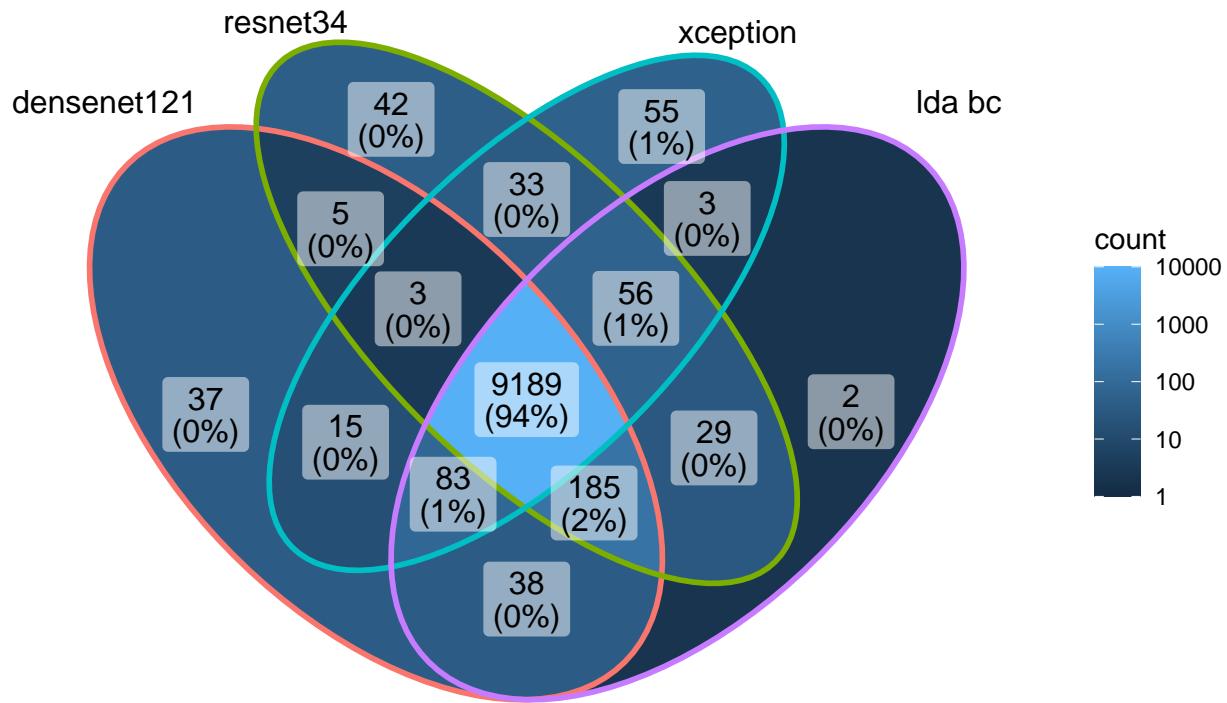


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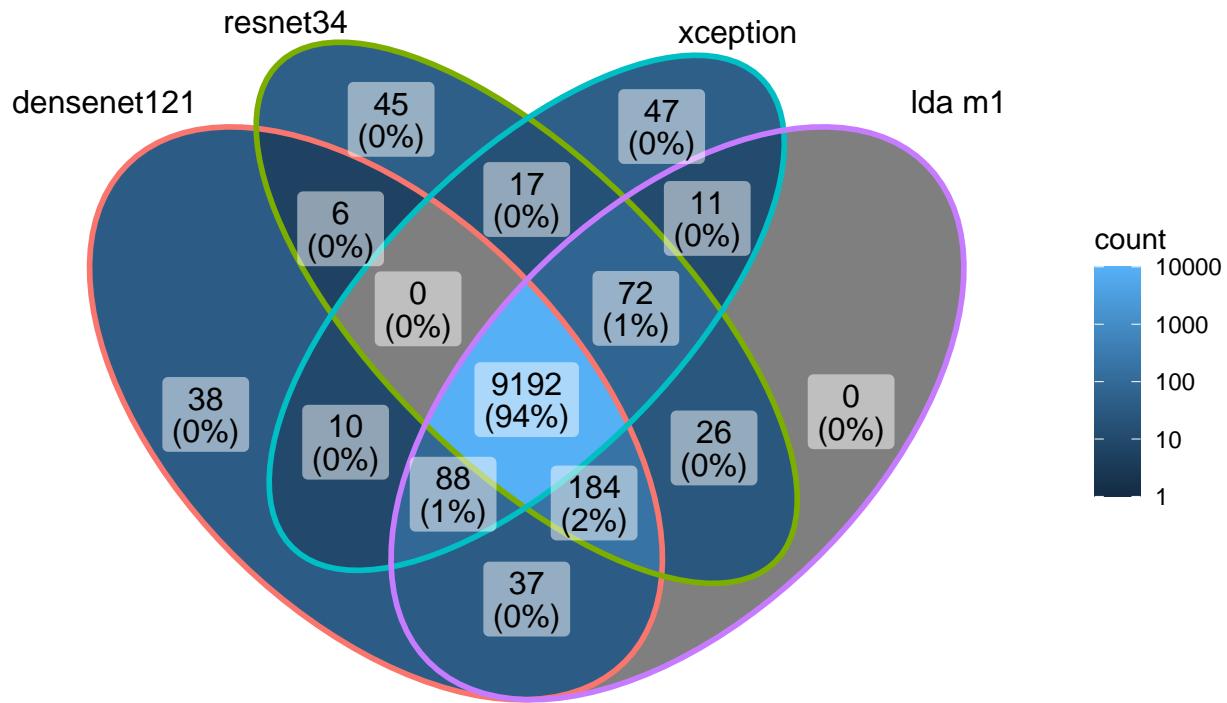


vt – replication 27



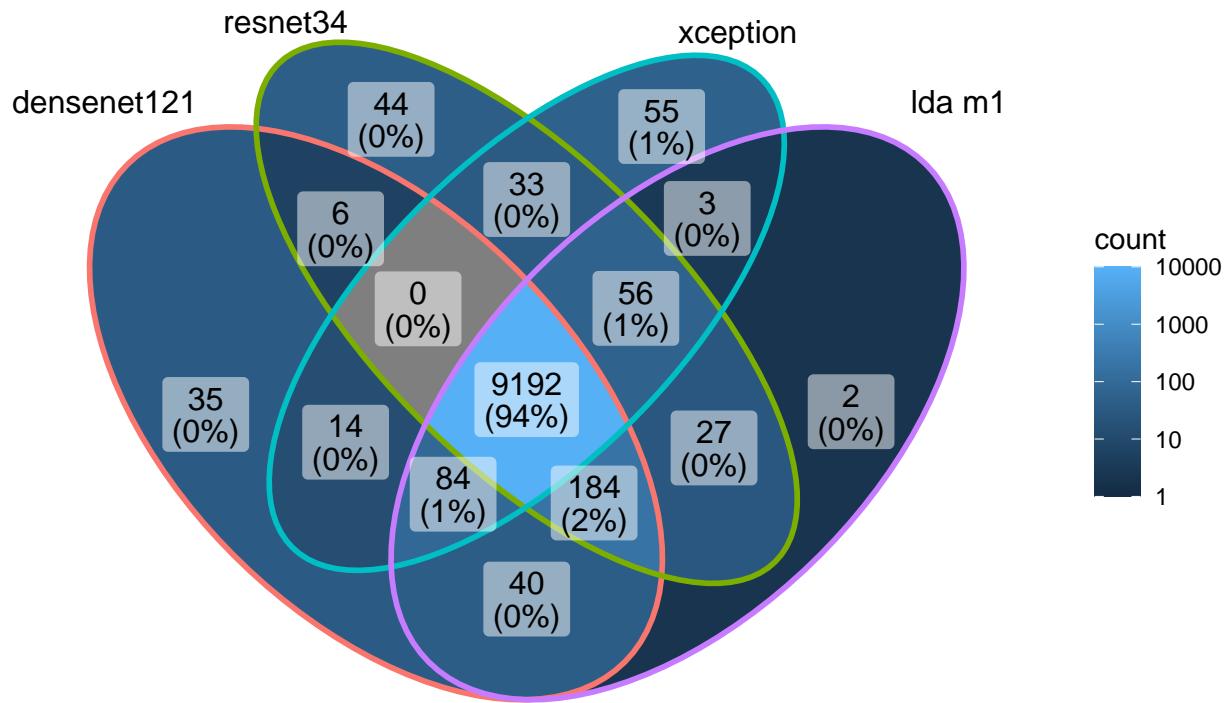
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tt – replication 27



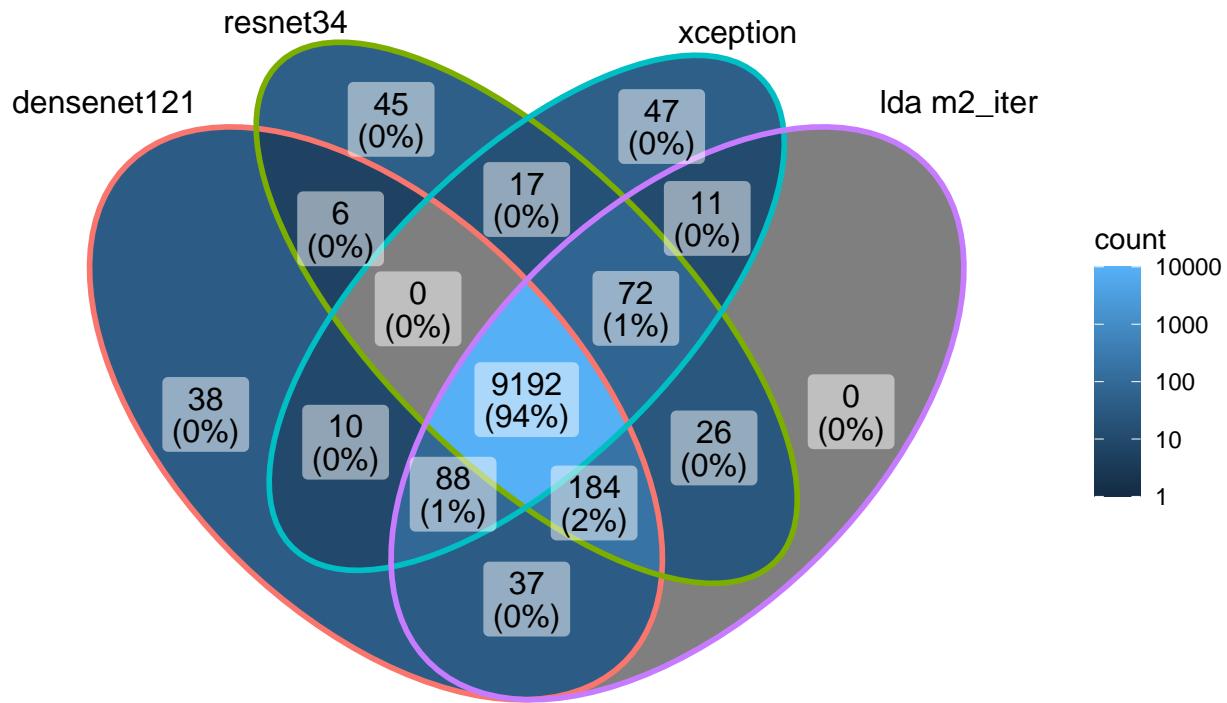
Warning: Transformation introduced infinite values in discrete y-axis

vt – replication 27



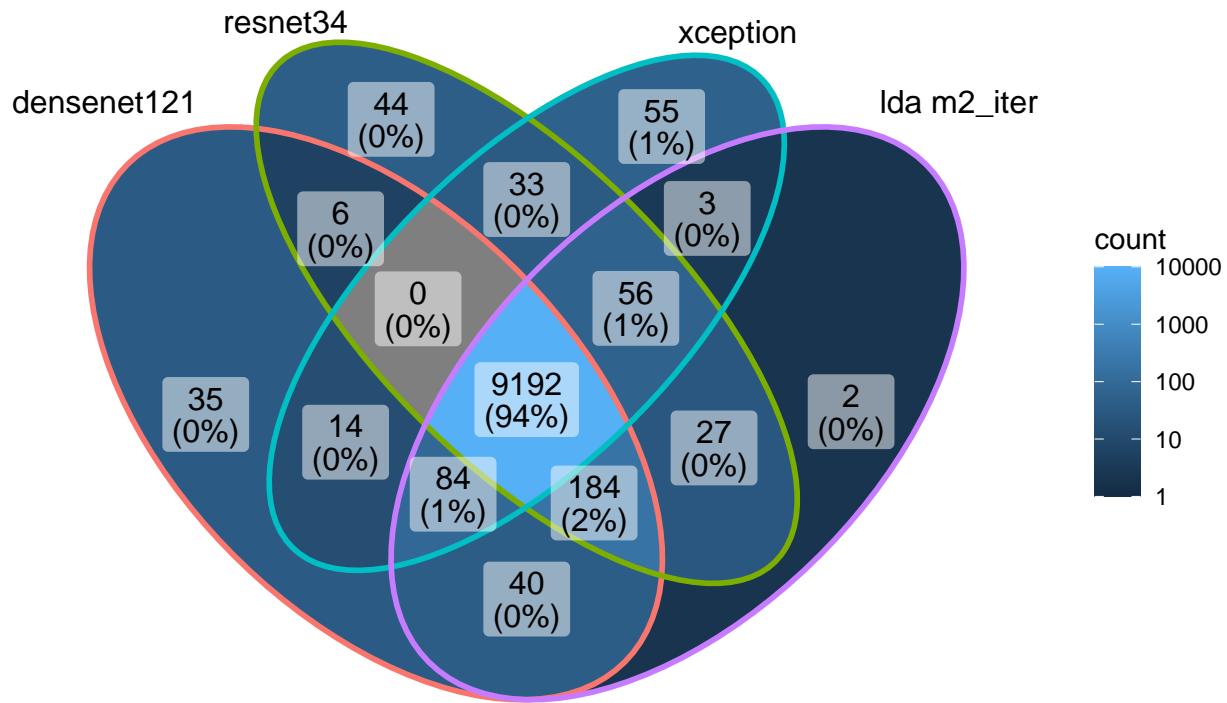
Warning: Transformation introduced infinite values in discrete y-axis

tt – replication 27



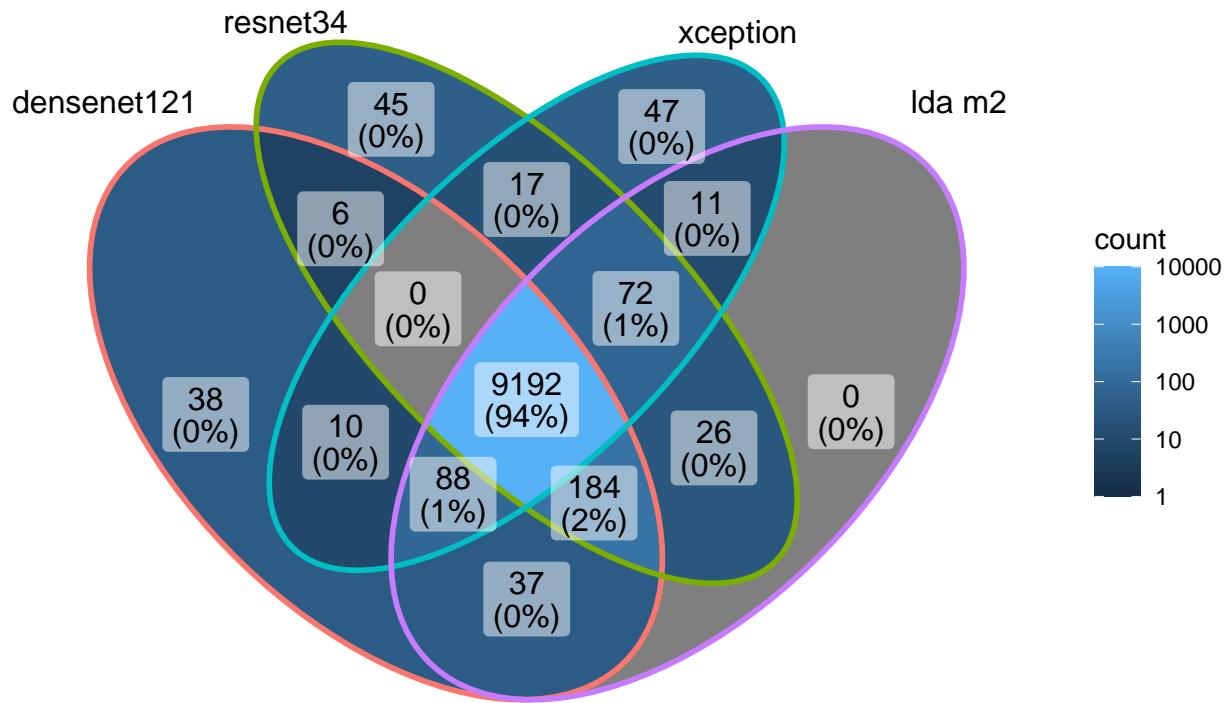
Warning: Transformation introduced infinite values in discrete y-axis

vt – replication 27



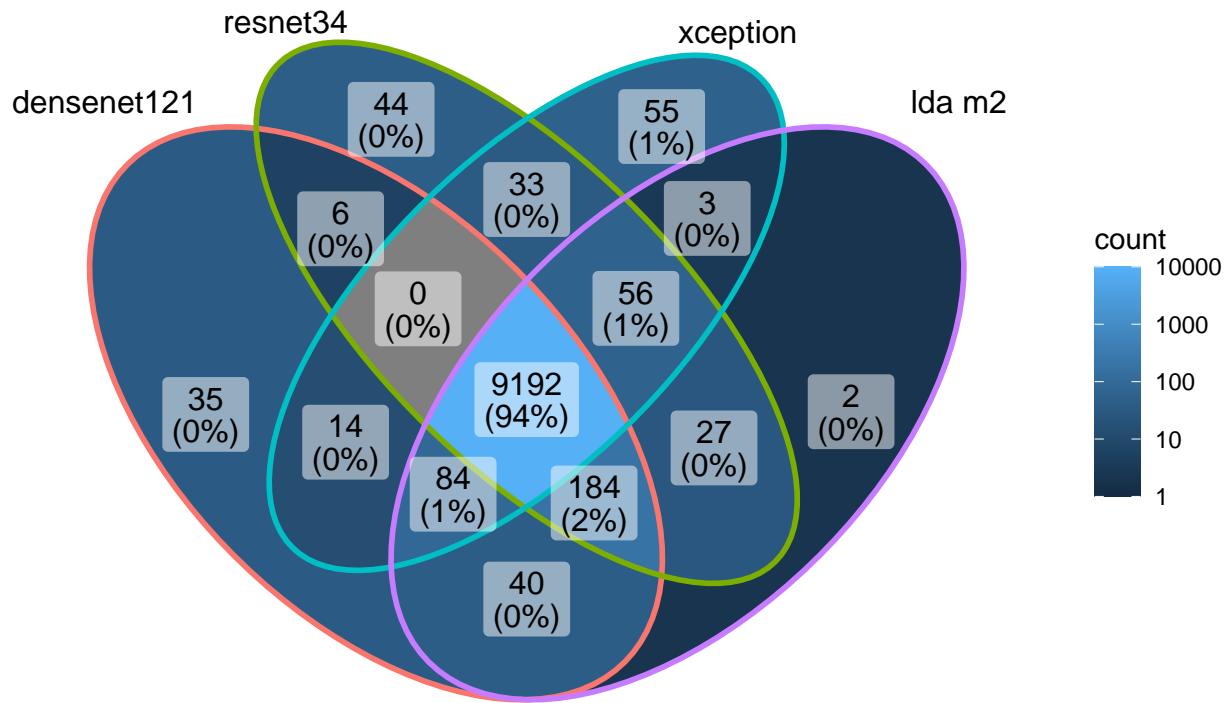
Warning: Transformation introduced infinite values in discrete y-axis

tt – replication 27



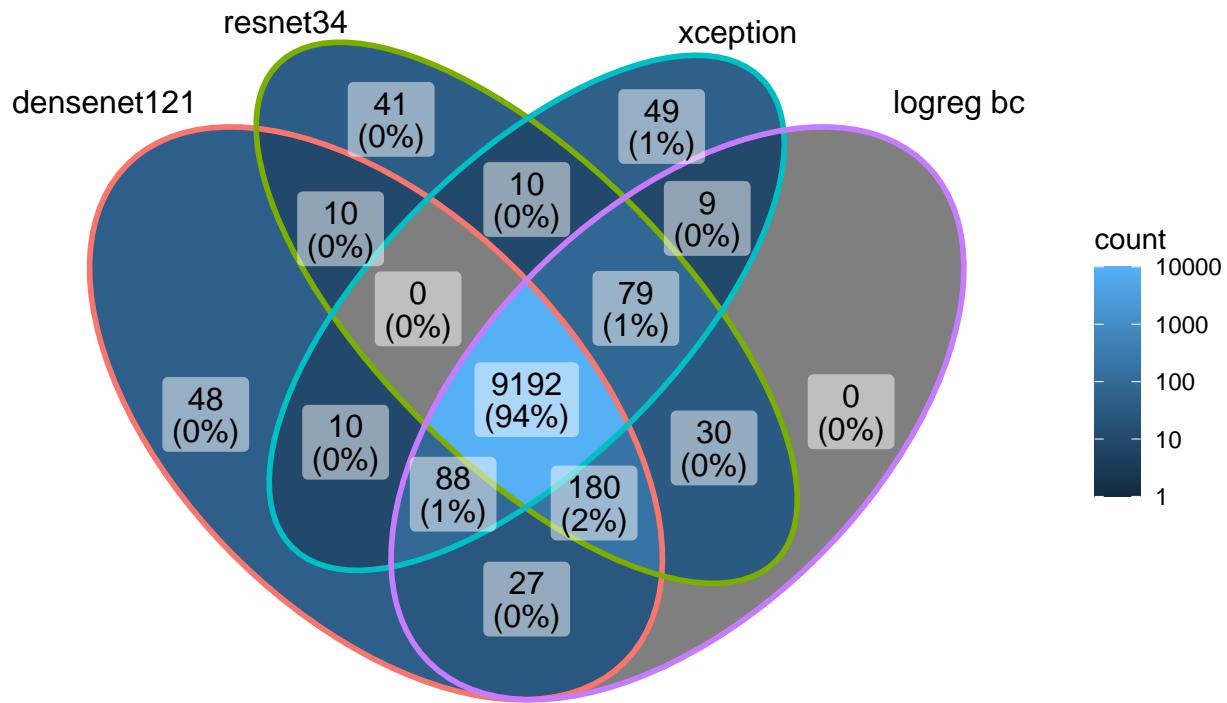
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vt – replication 27

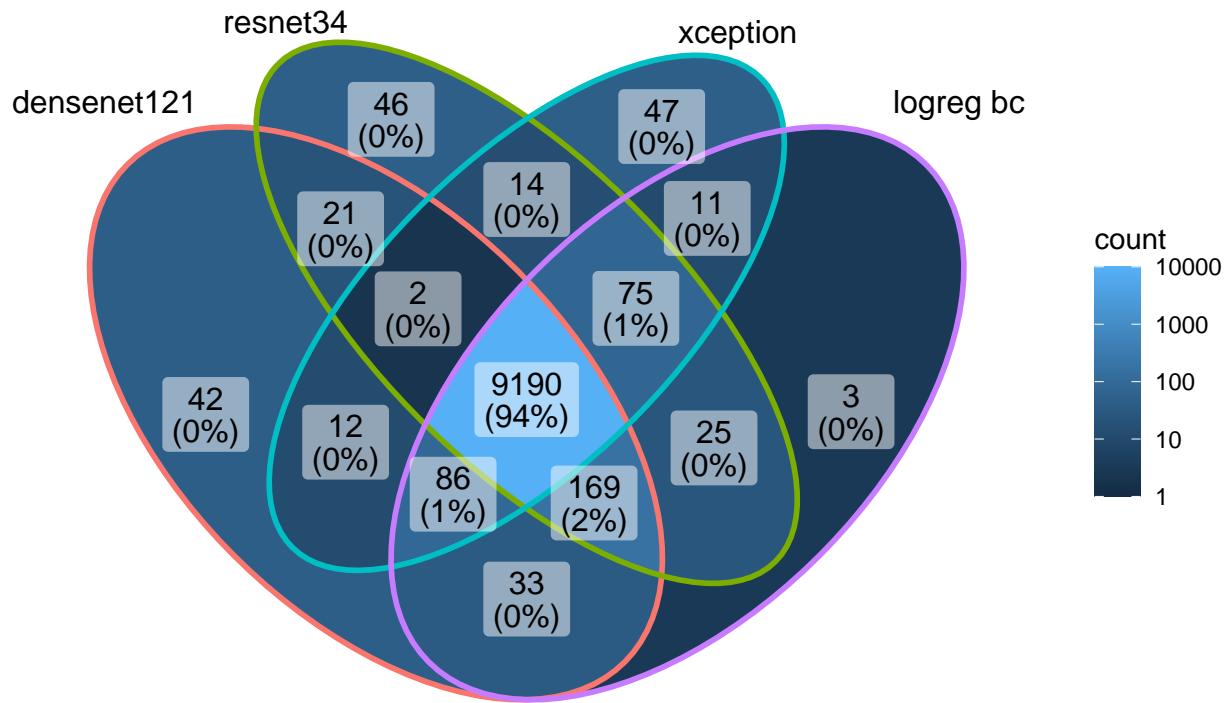


Warning: Transformation introduced infinite values in discrete y-axis

tt – replication 27

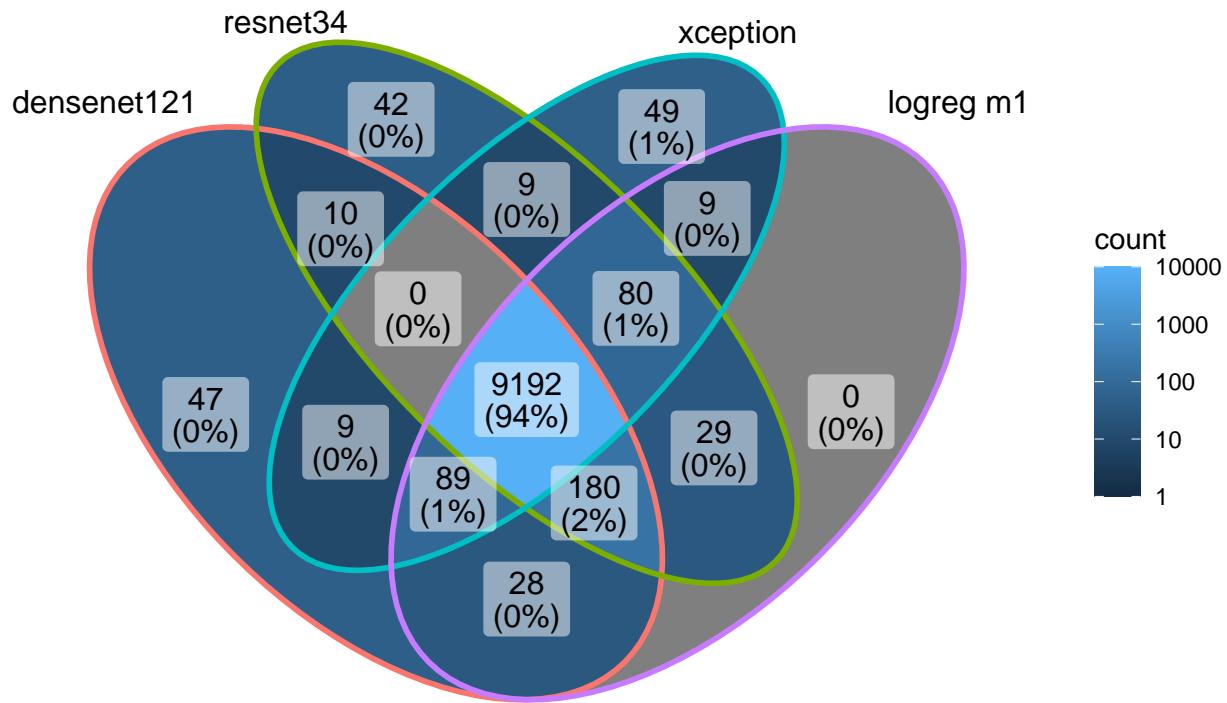


vt – replication 27

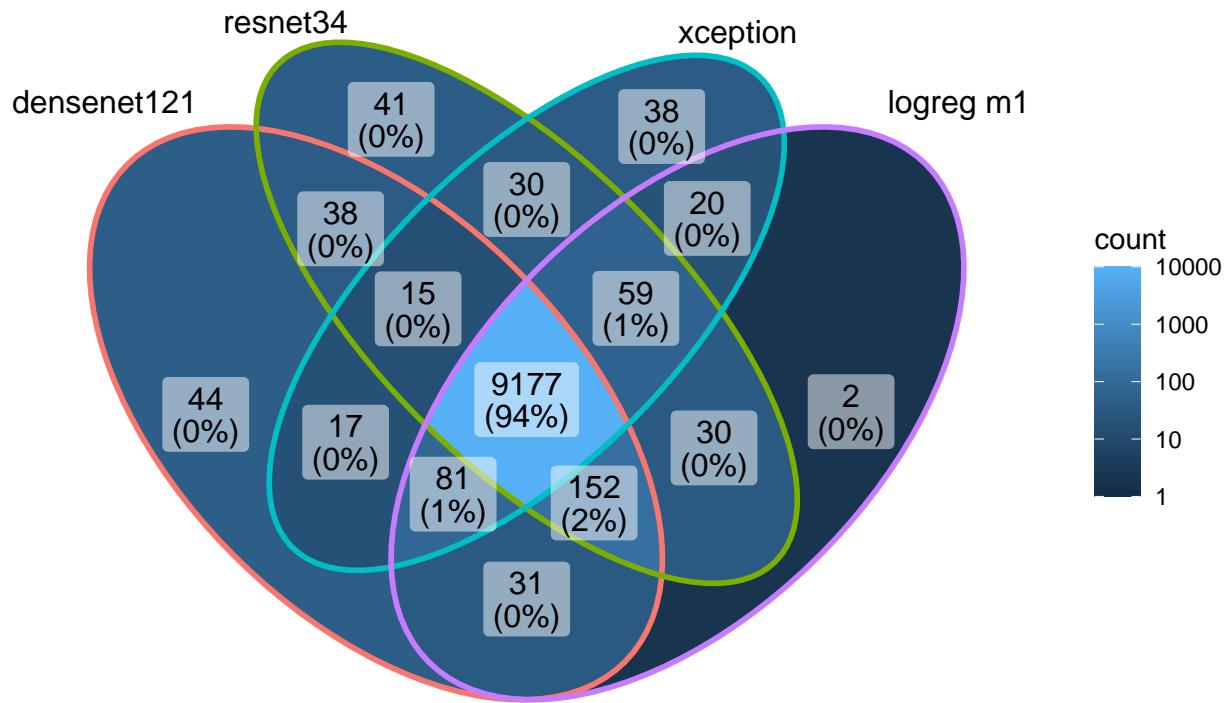


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tt – replication 27

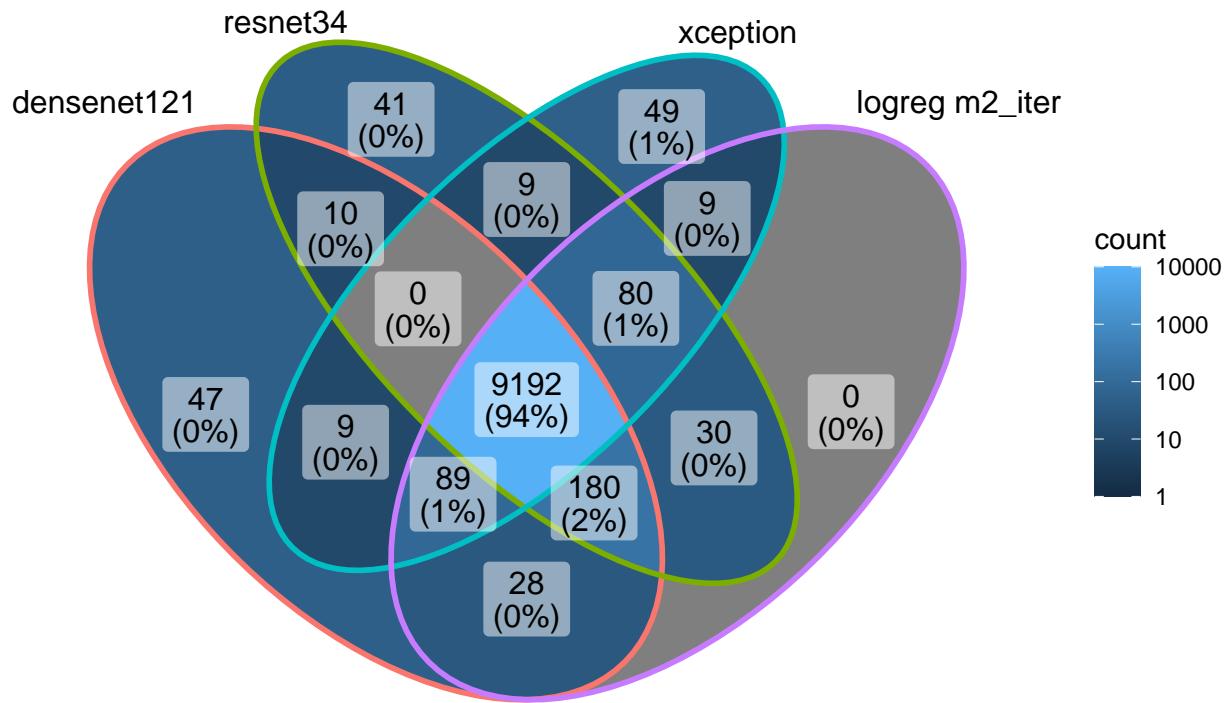


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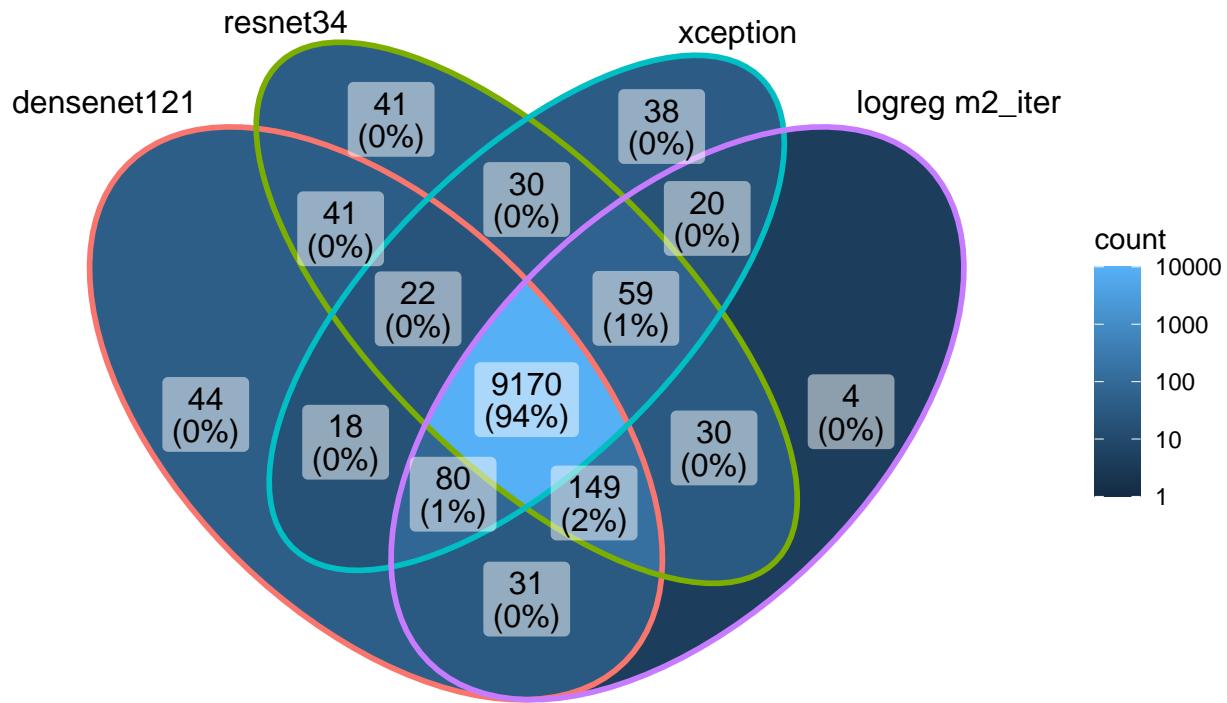


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tt – replication 27

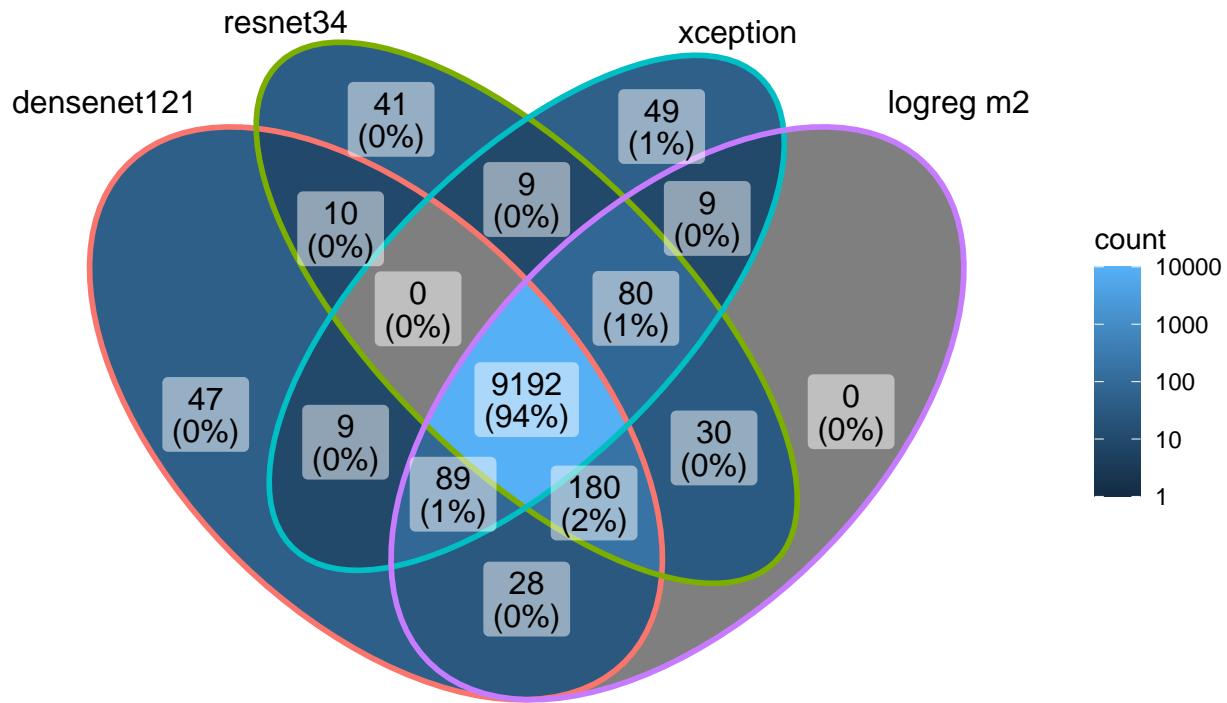


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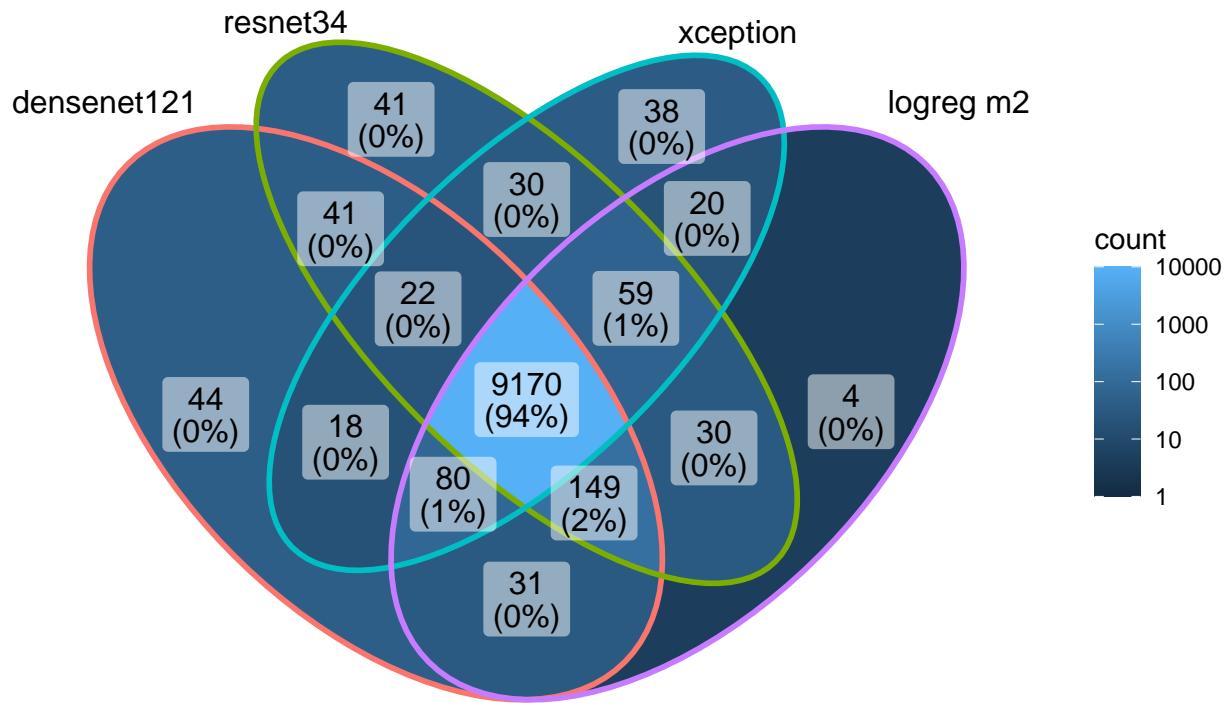


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tt – replication 27

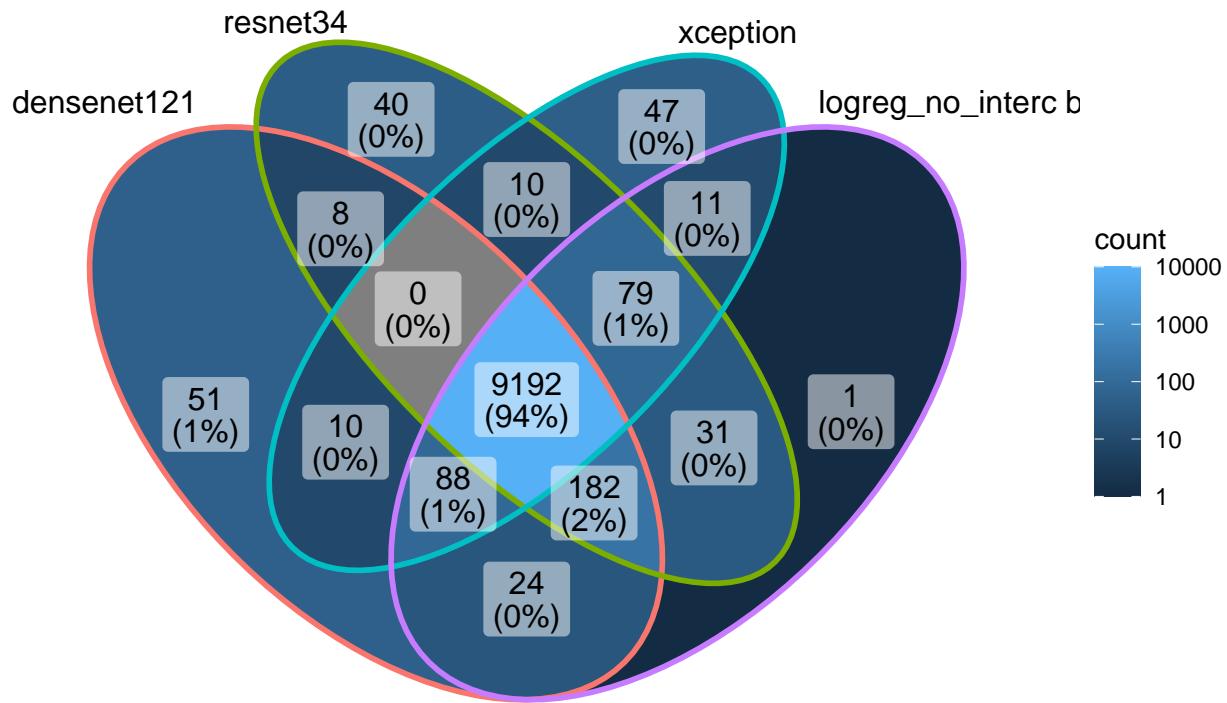


vt – replication 27

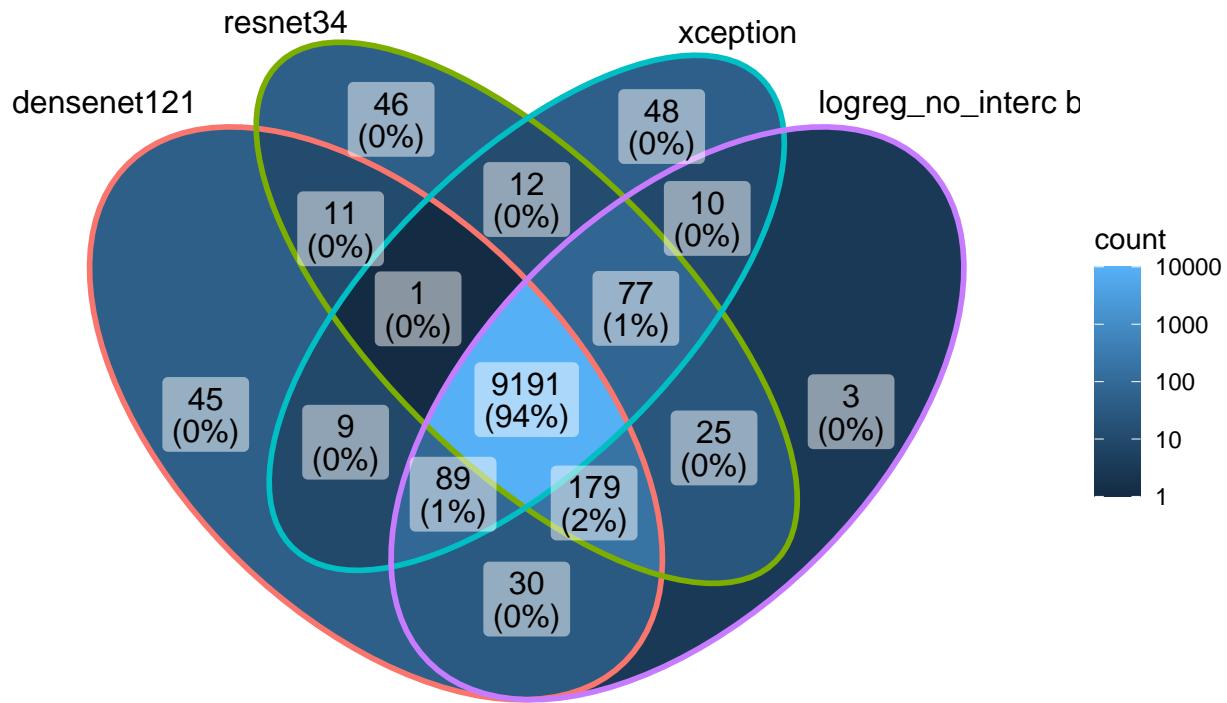


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tt – replication 27

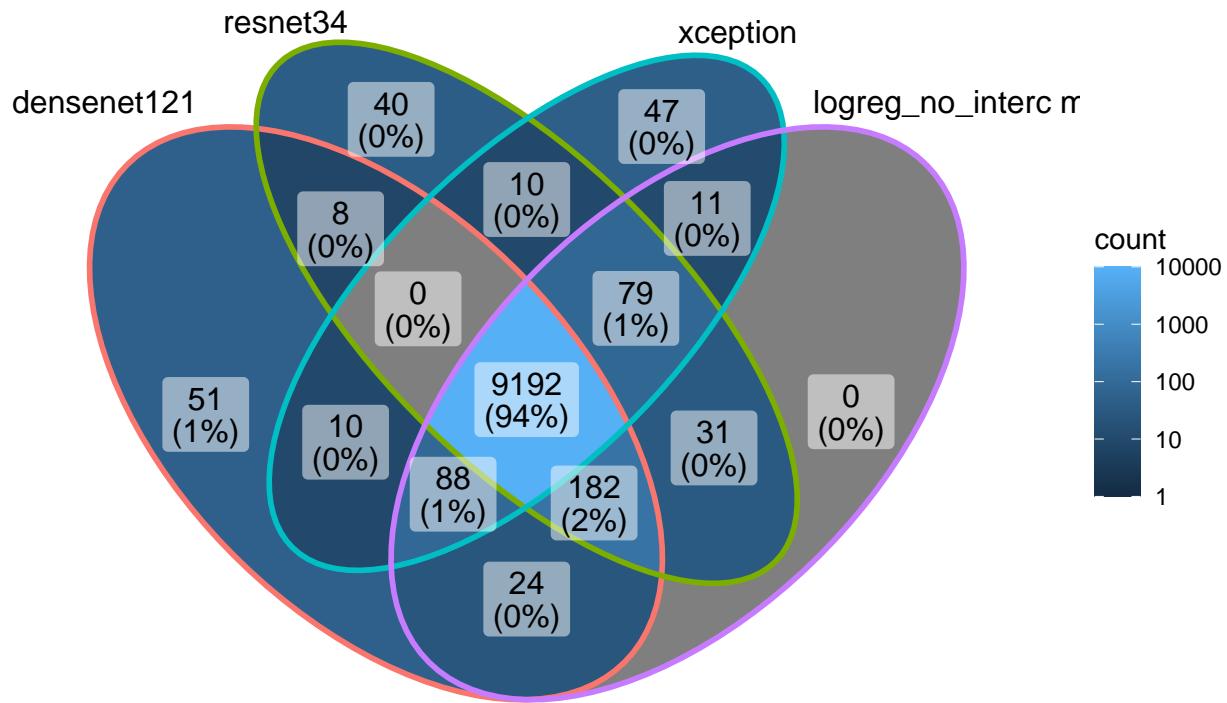


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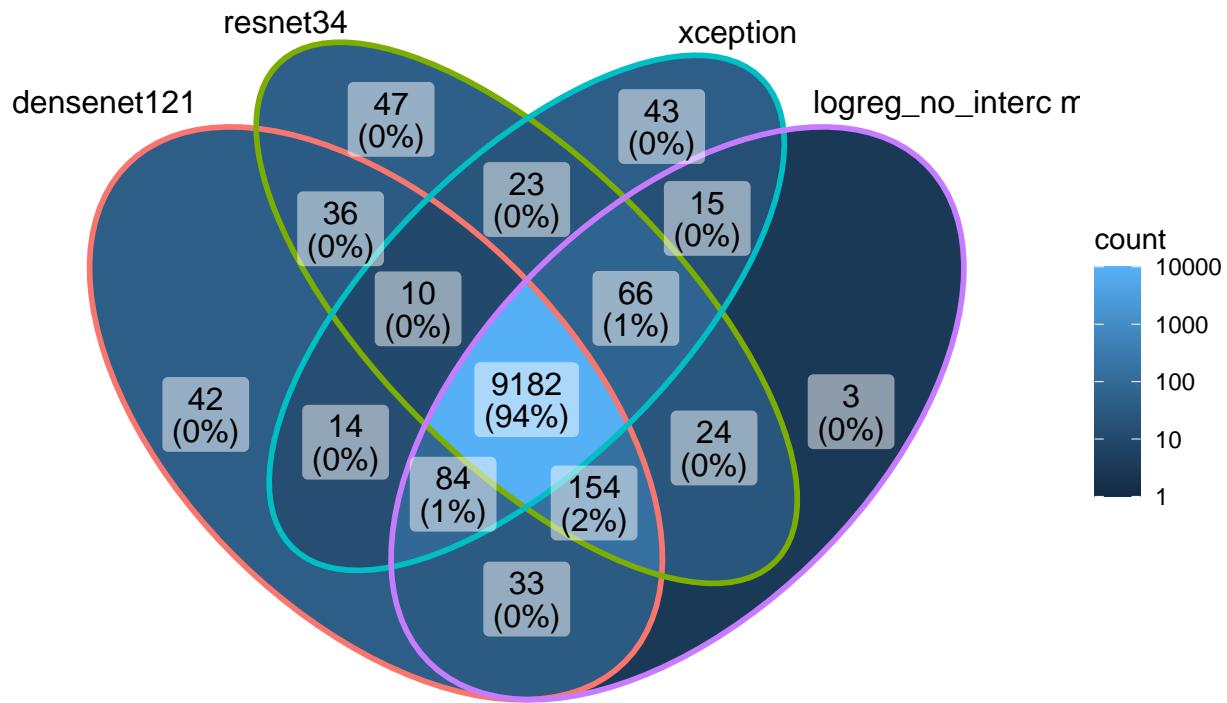


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tt – replication 27

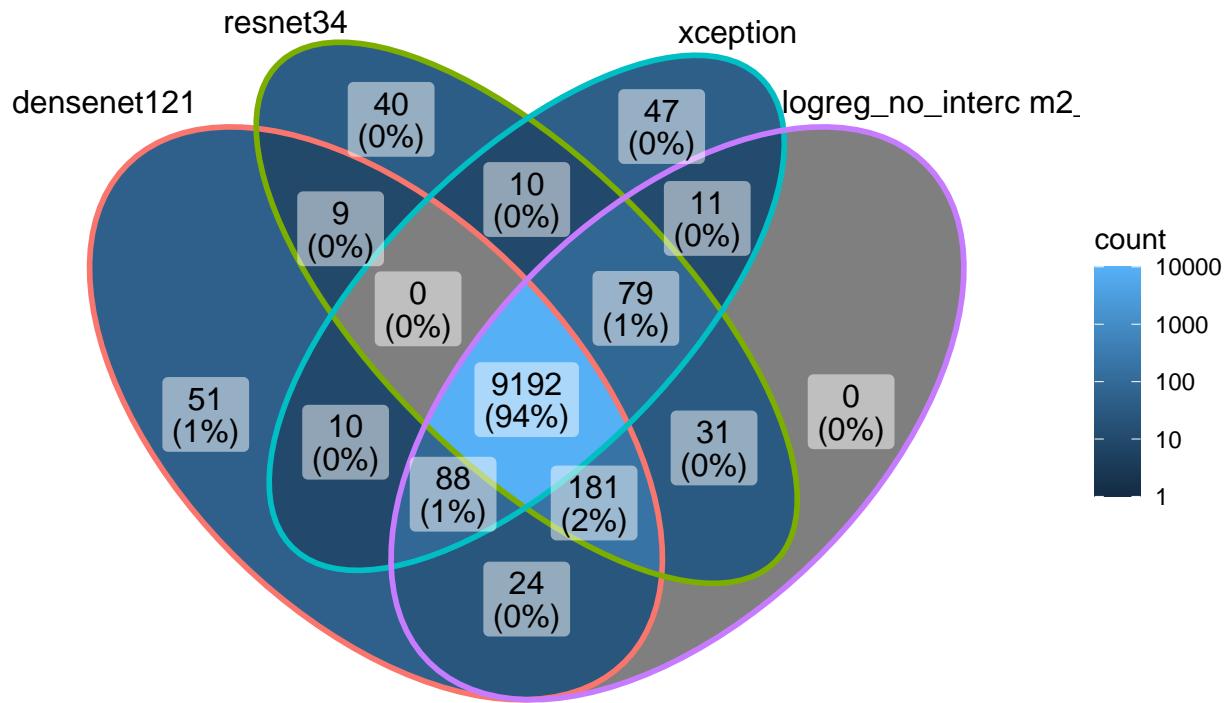


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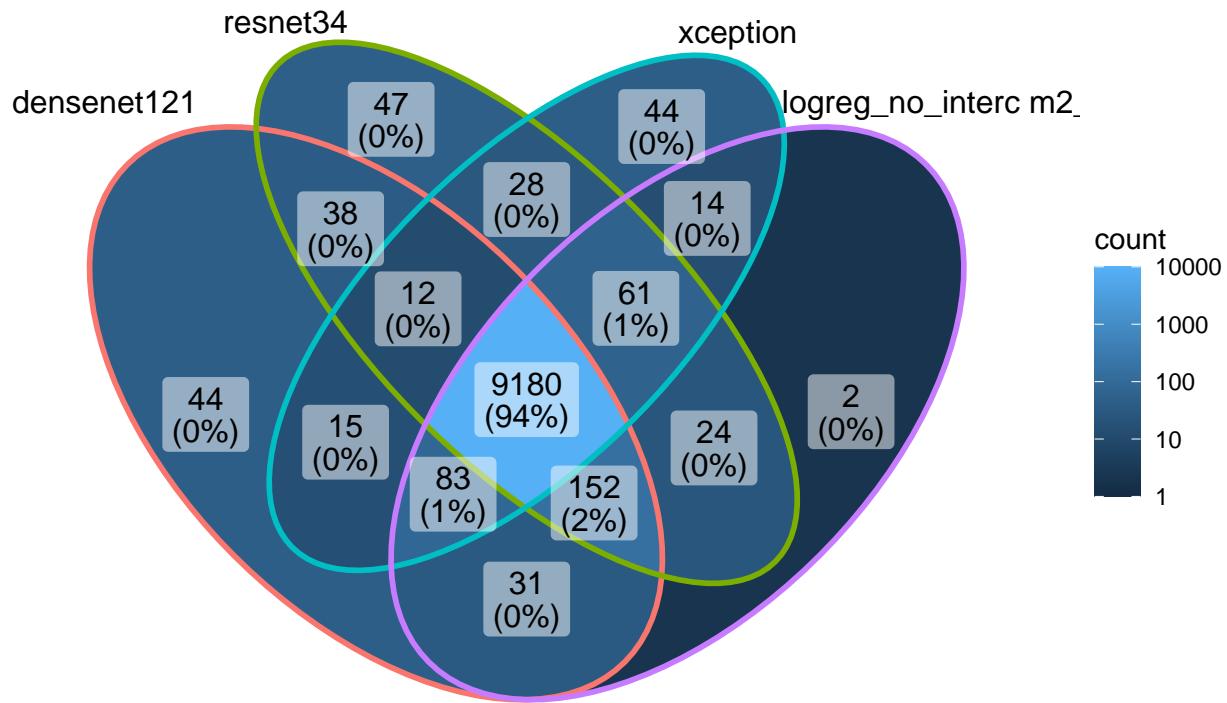


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tt – replication 27

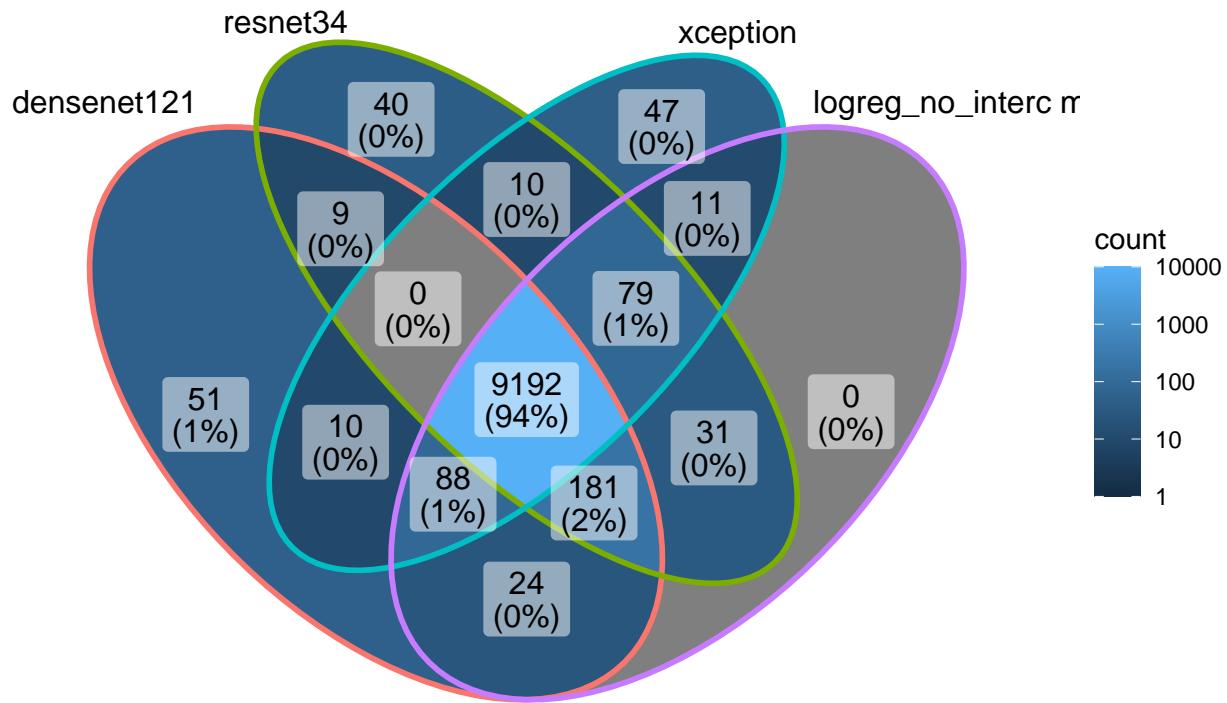


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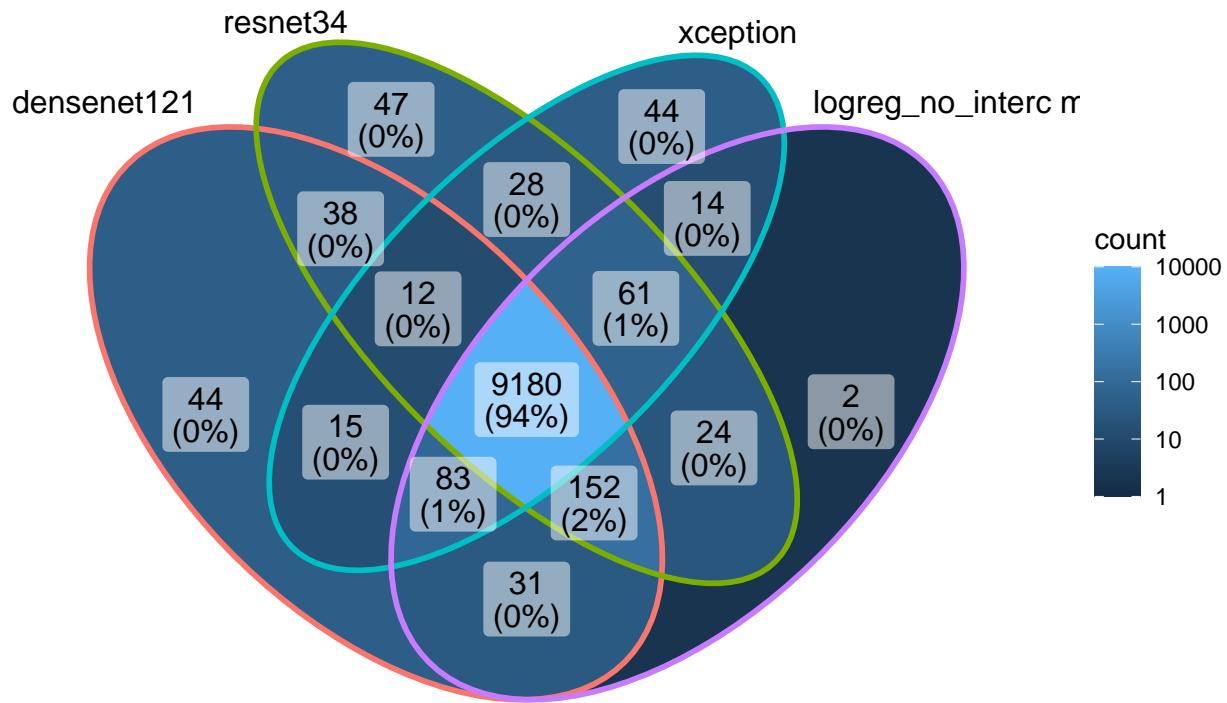


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tt – replication 27

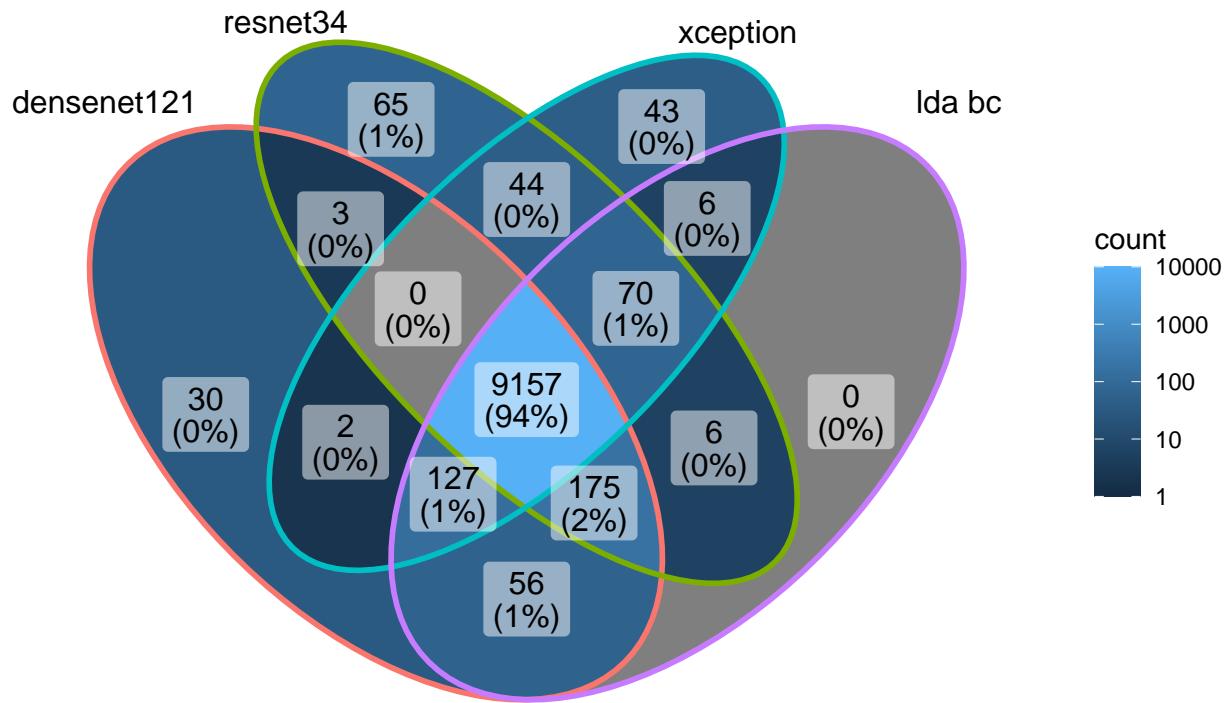


vt – replication 27

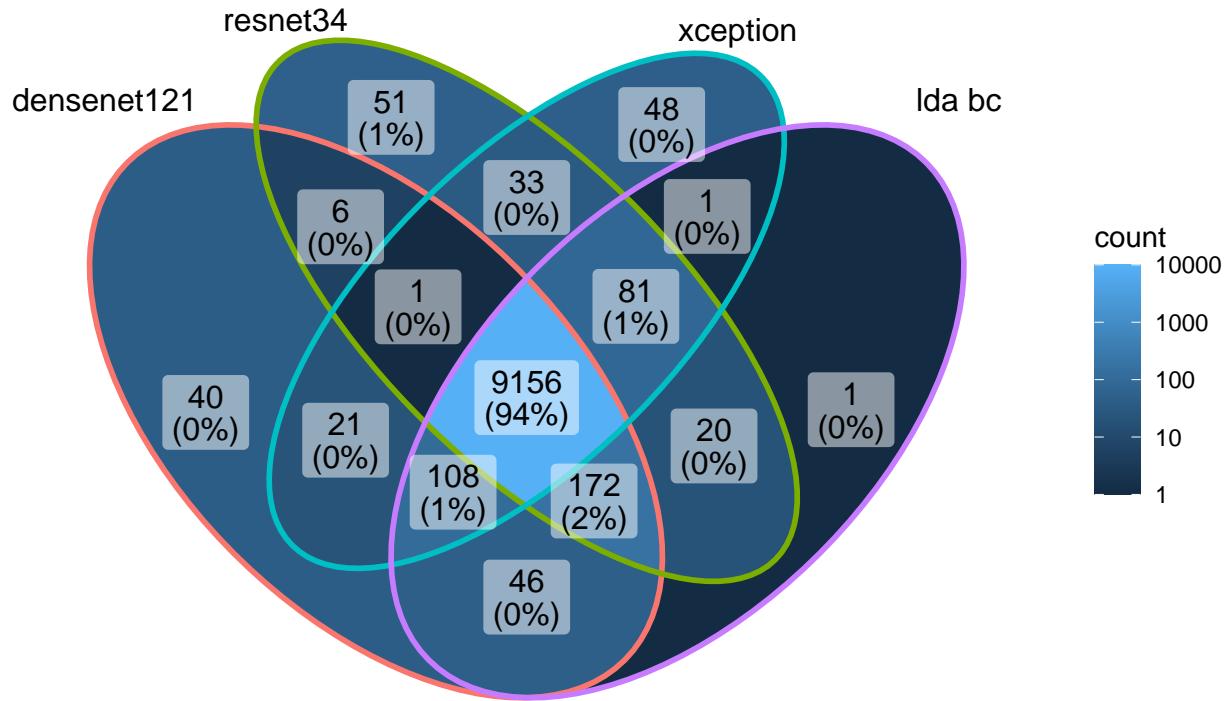


Warning: Transformation introduced infinite values in discrete y-axis

tt – replication 28

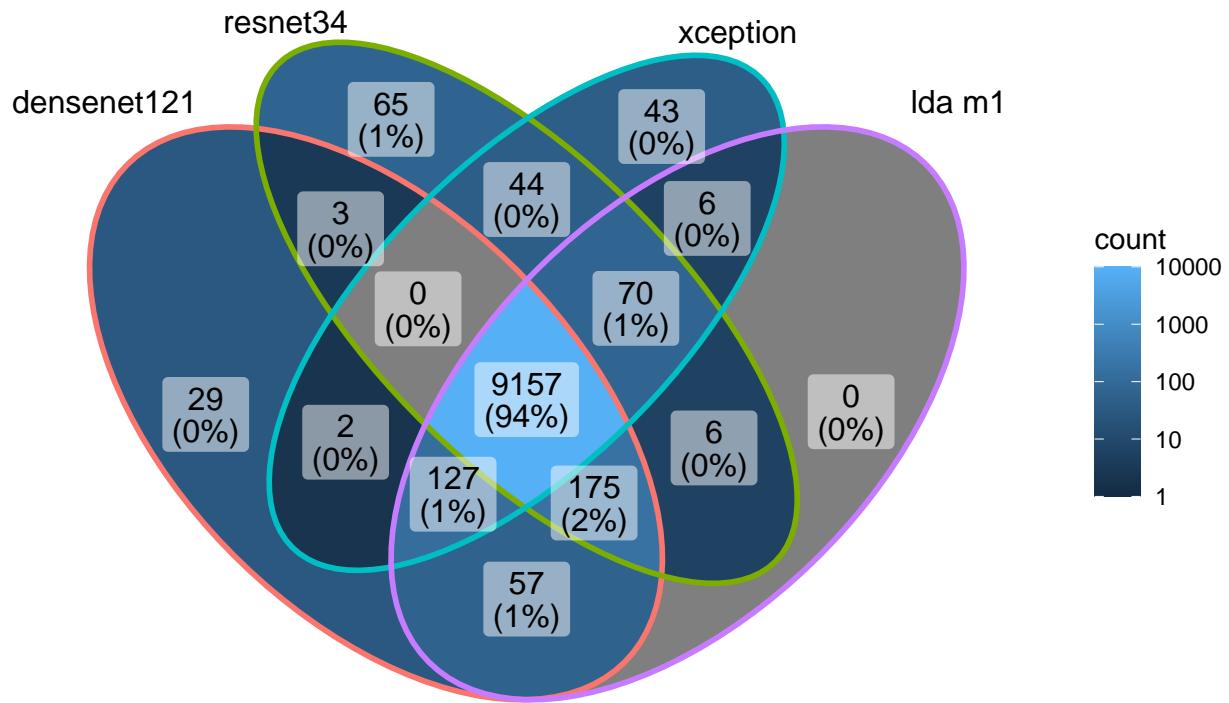


vt – replication 28



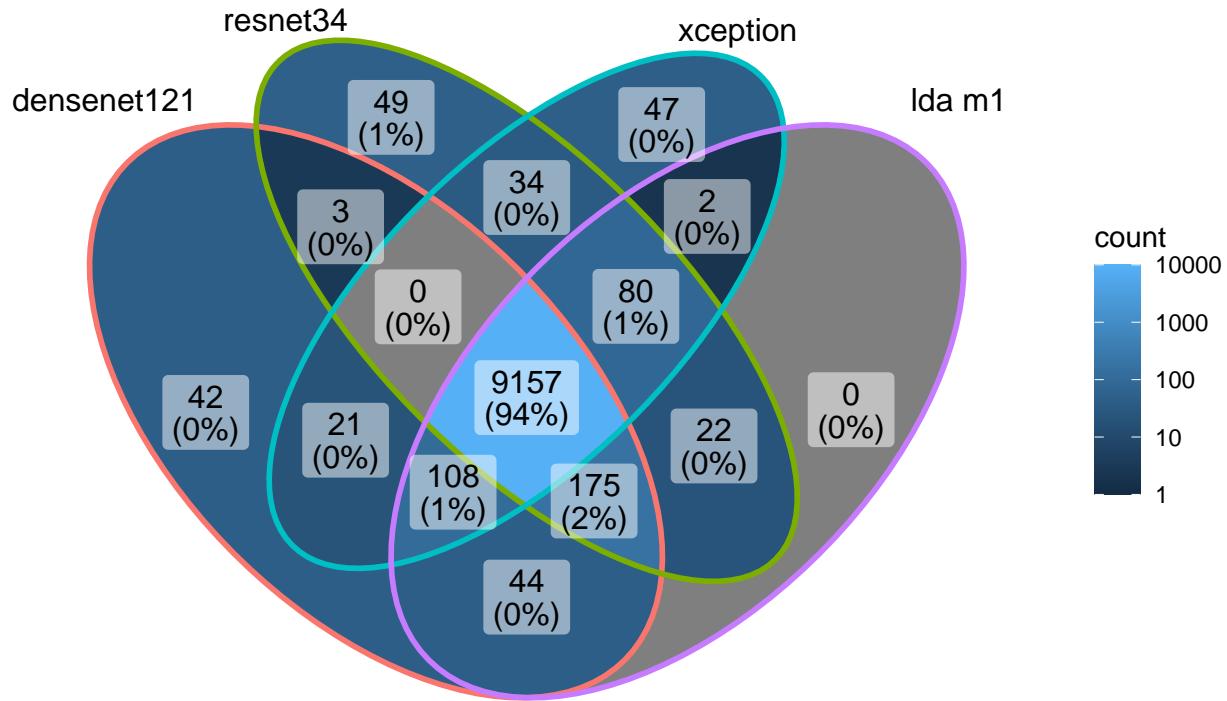
Warning: Transformation introduced infinite values in discrete y-axis

tt – replication 28



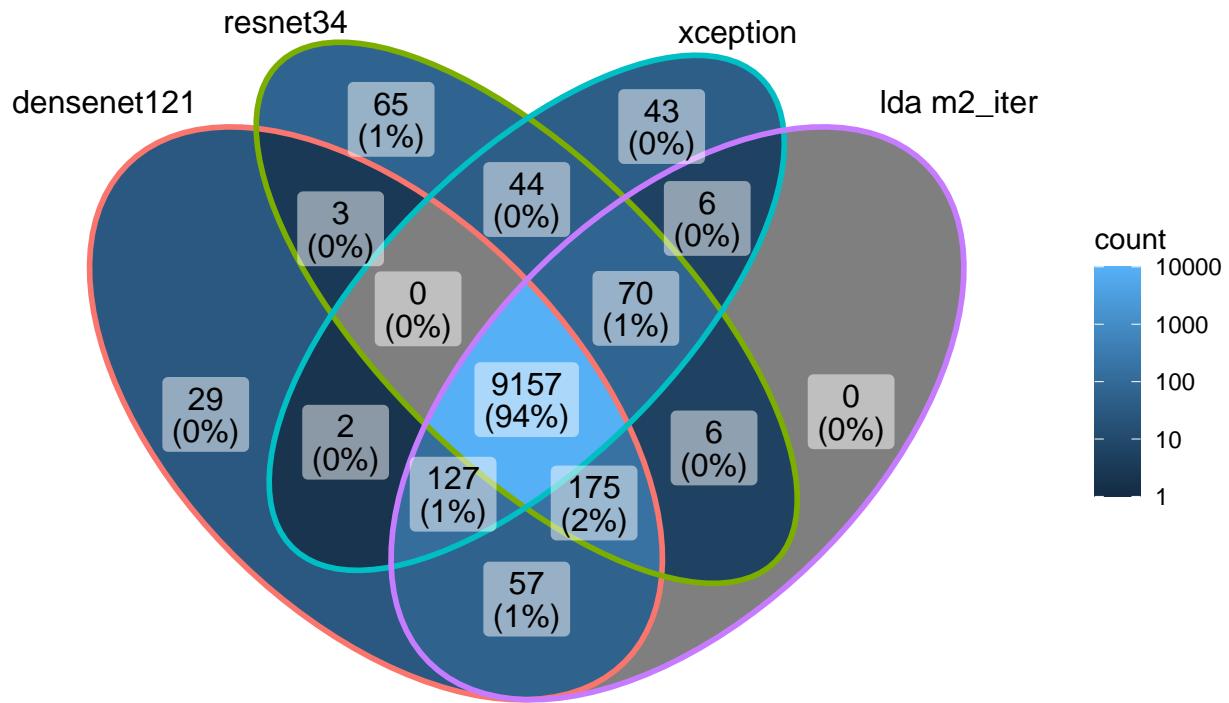
Warning: Transformation introduced infinite values in discrete y-axis

vt – replication 28



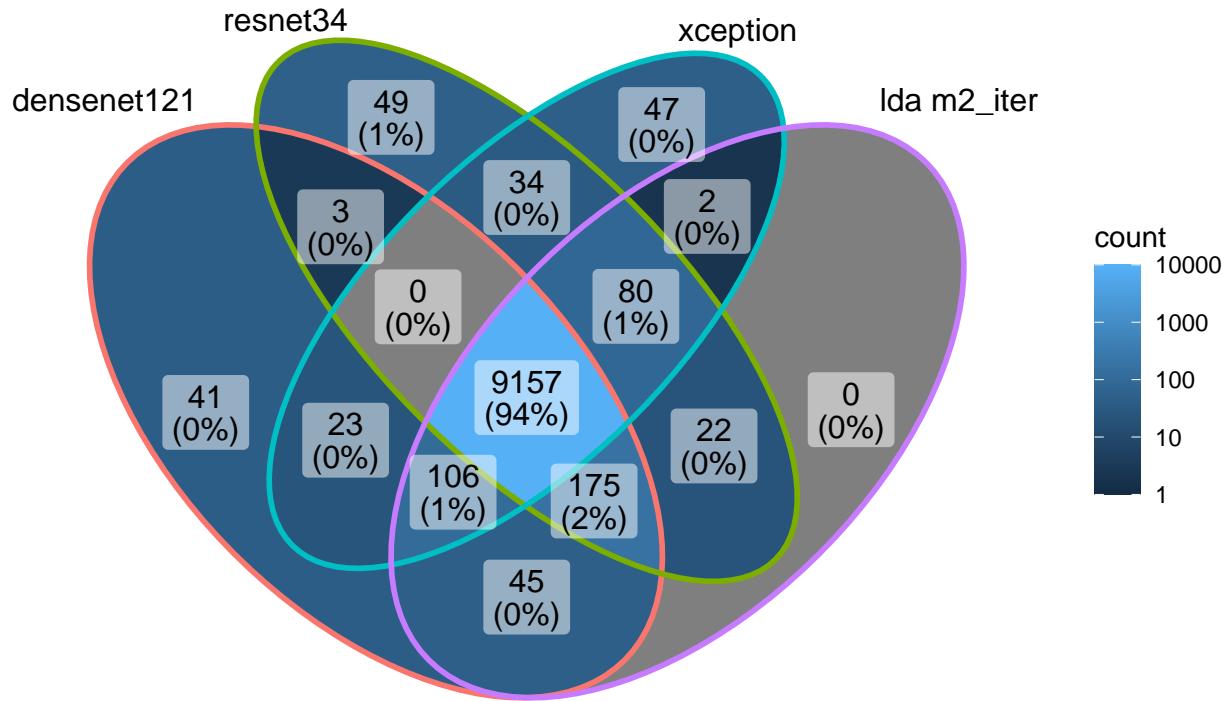
Warning: Transformation introduced infinite values in discrete y-axis

tt – replication 28



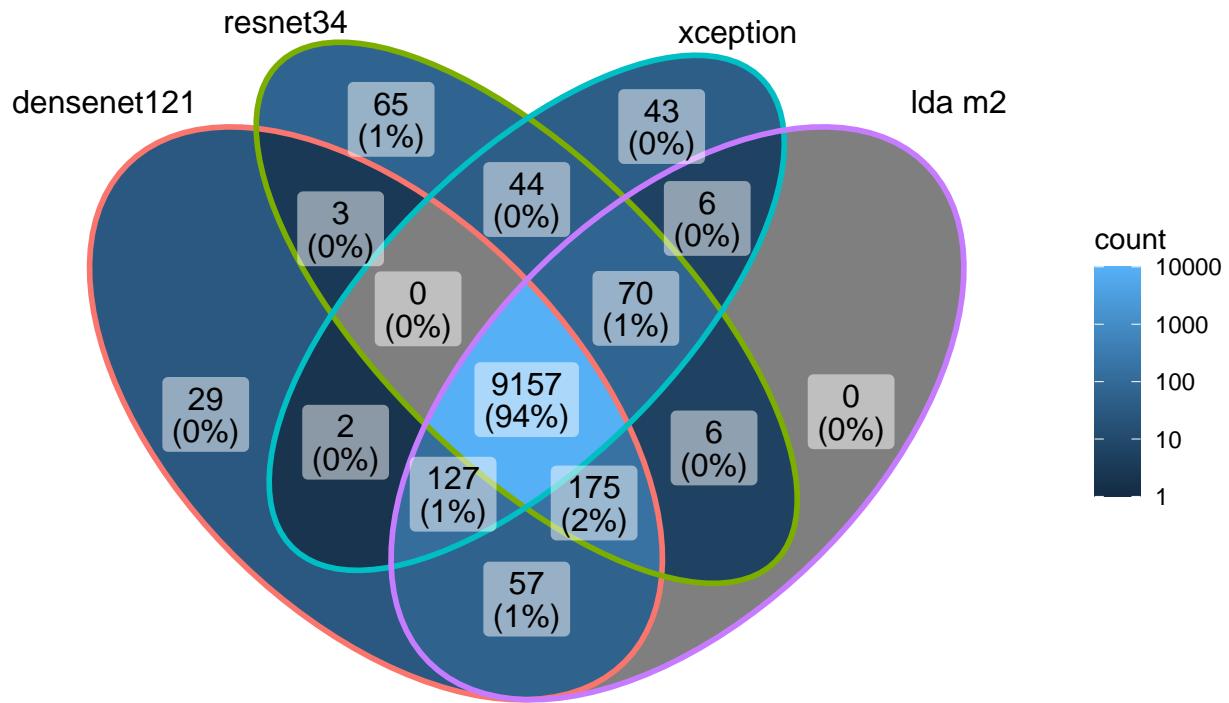
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vt – replication 28



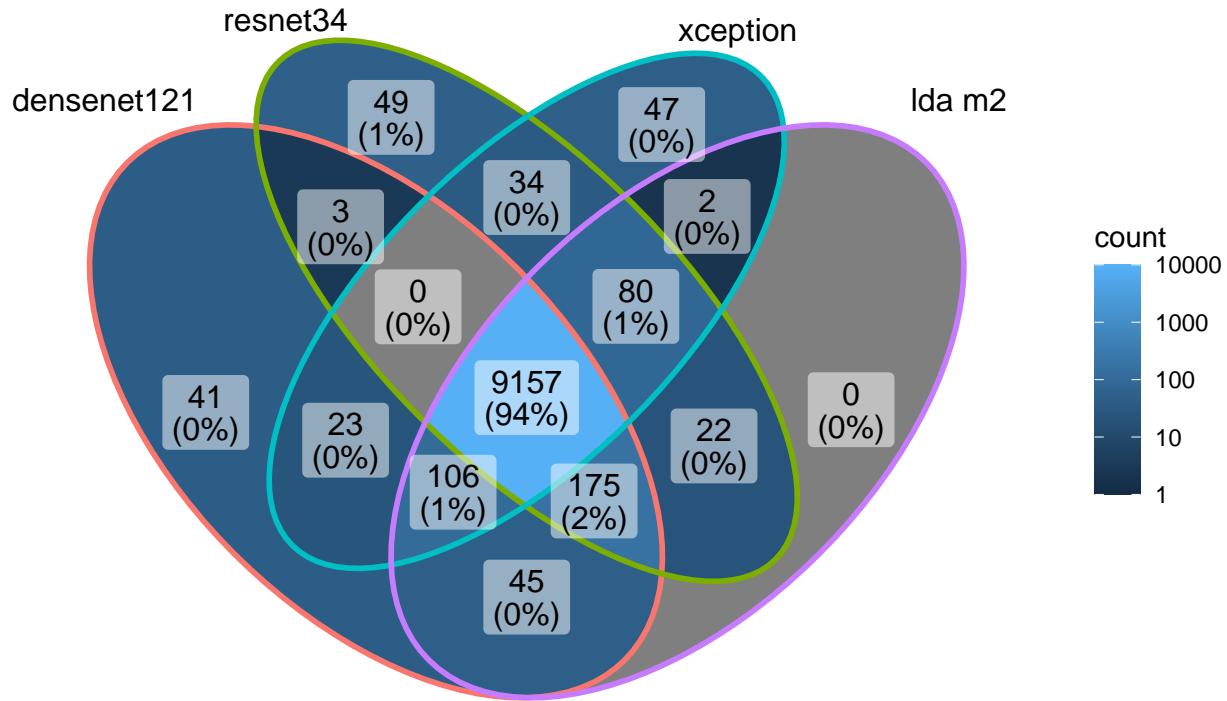
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tt – replication 28



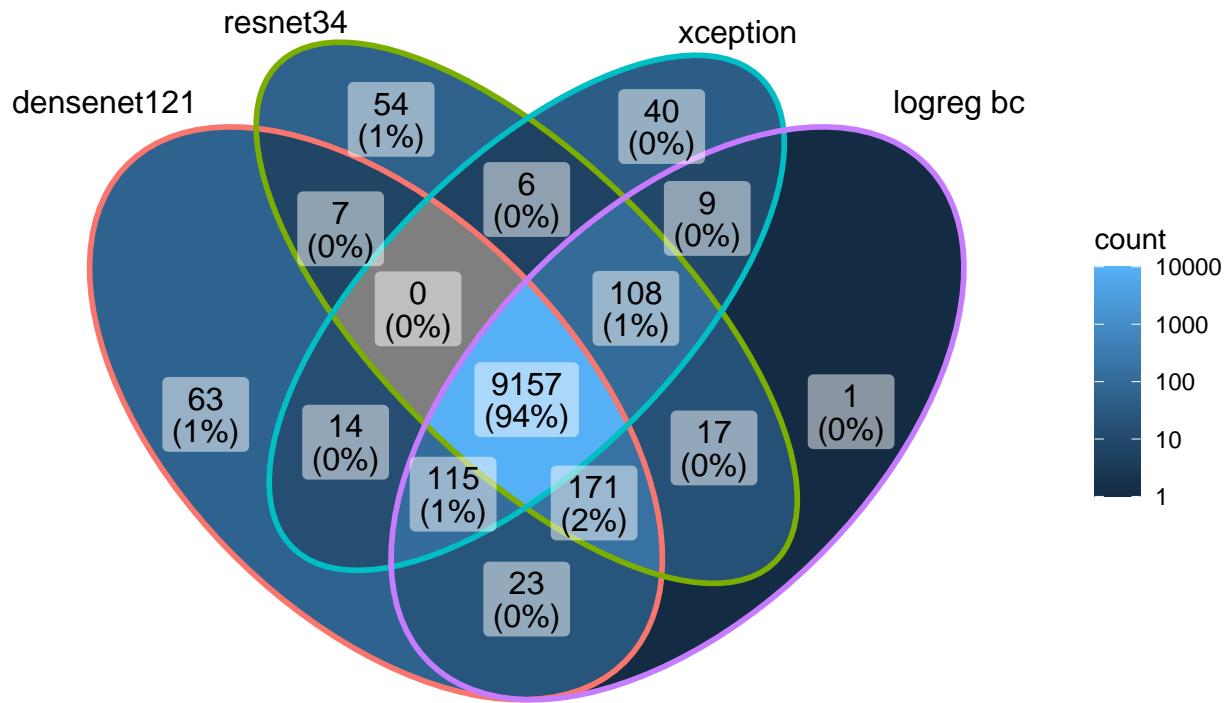
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vt – replication 28

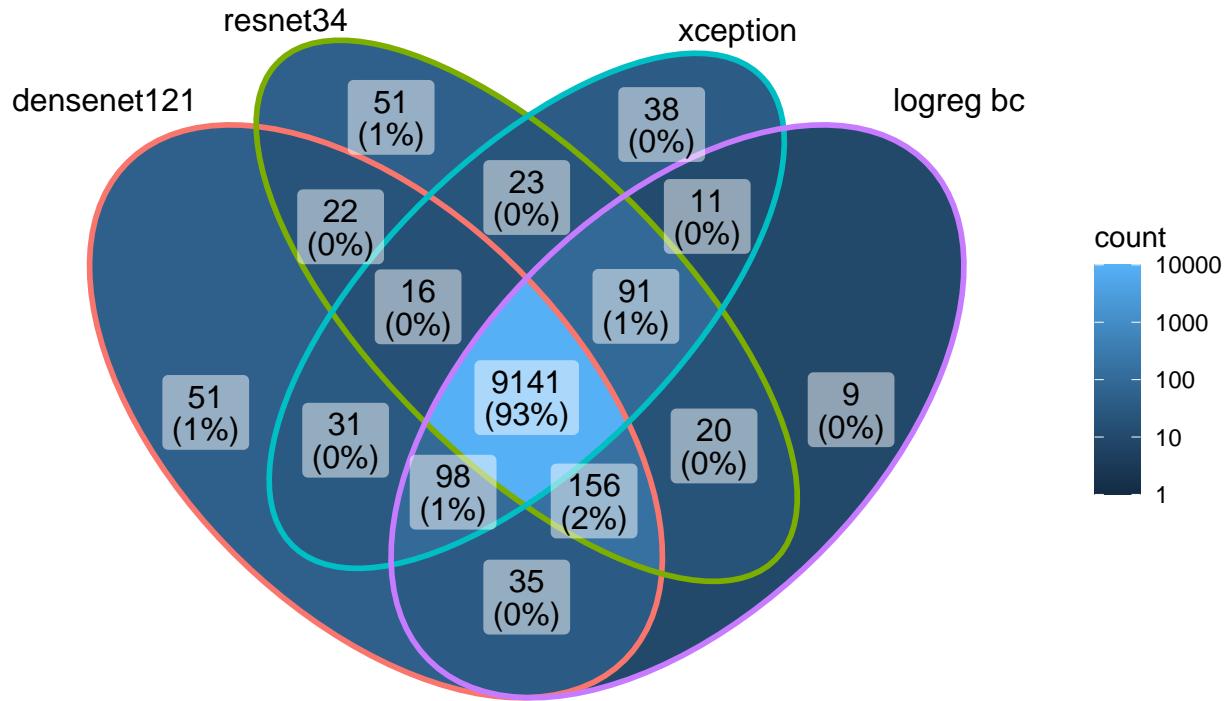


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tt – replication 28

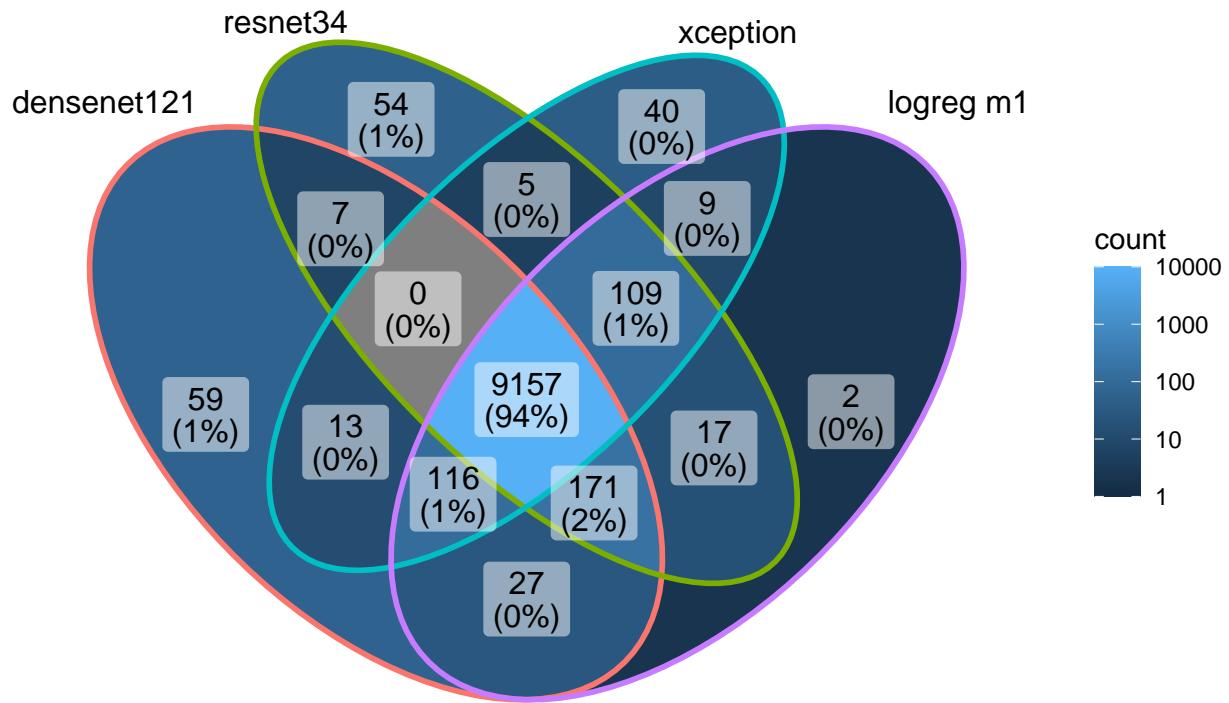


vt – replication 28

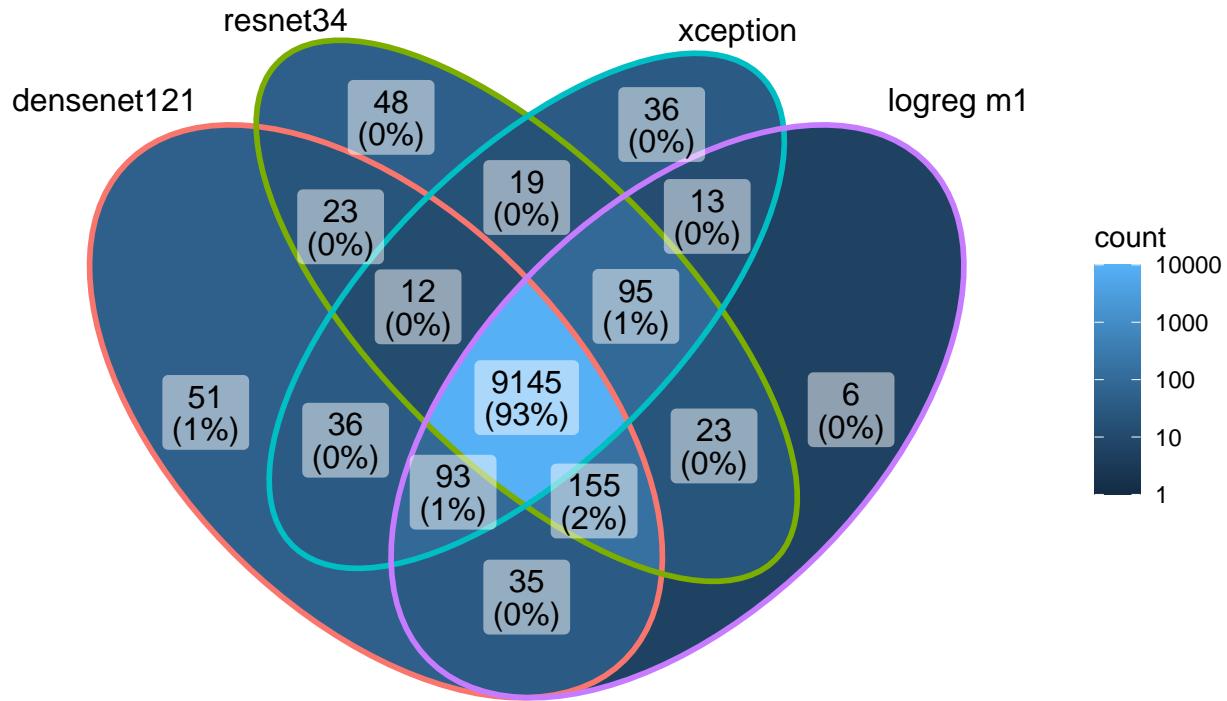


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tt – replication 28

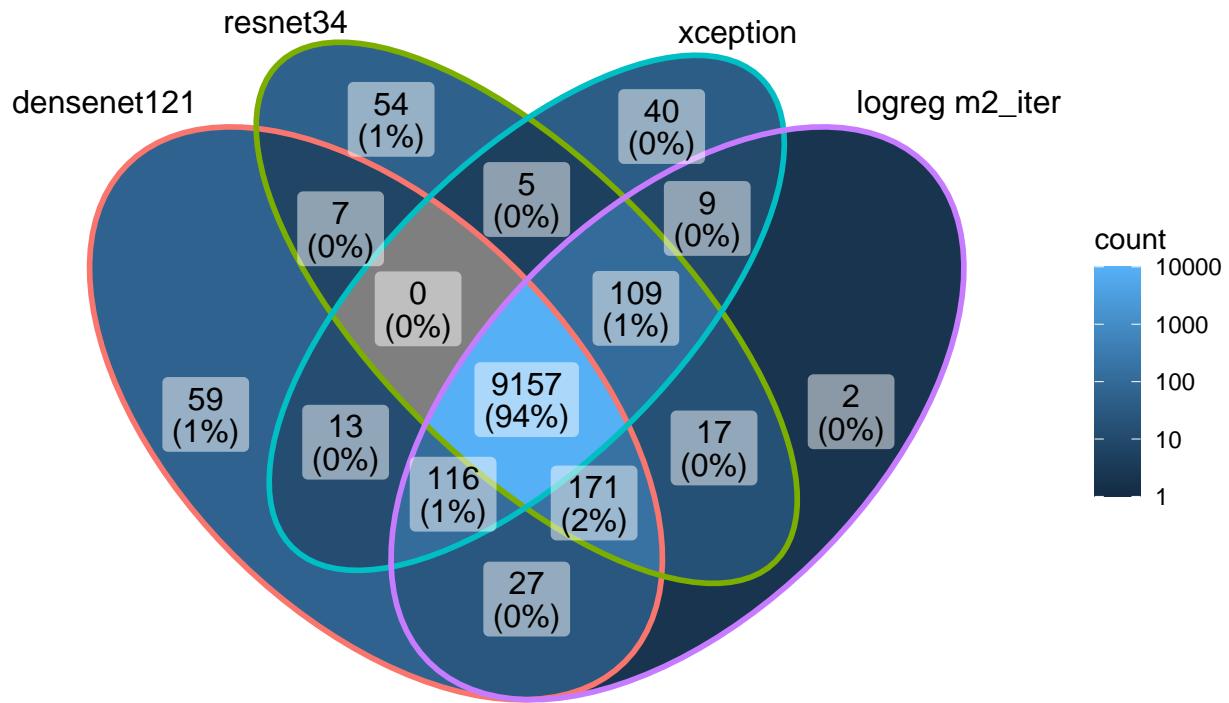


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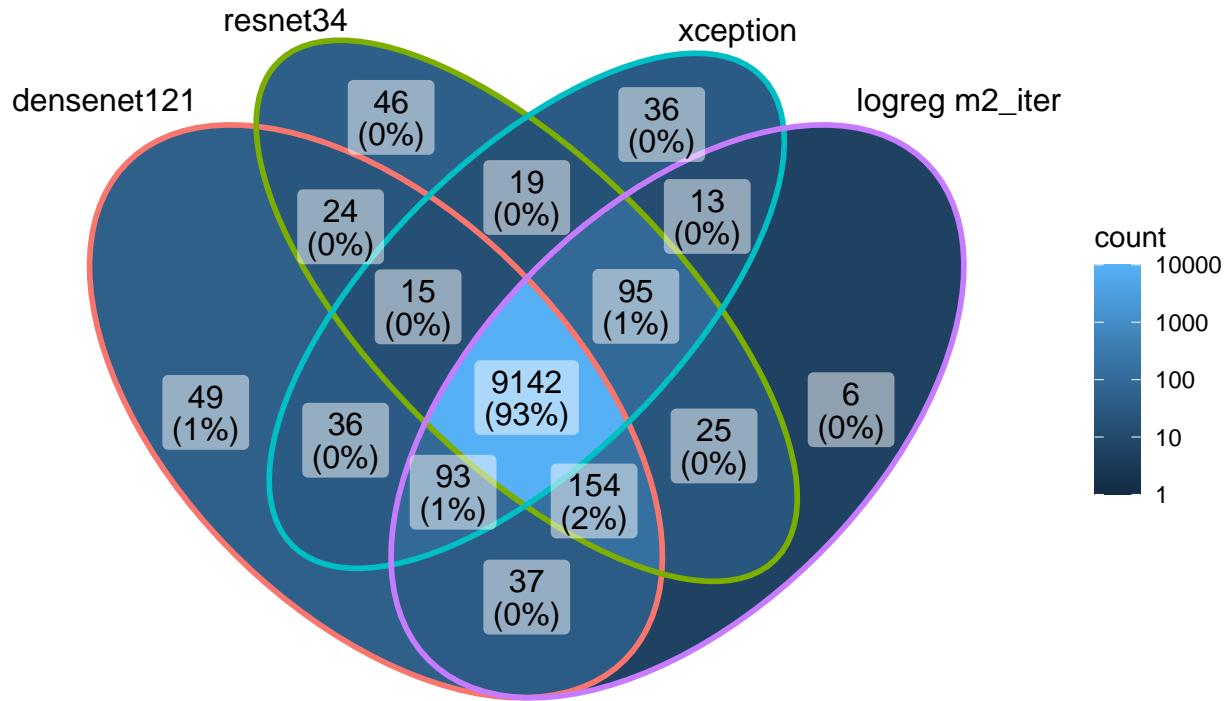


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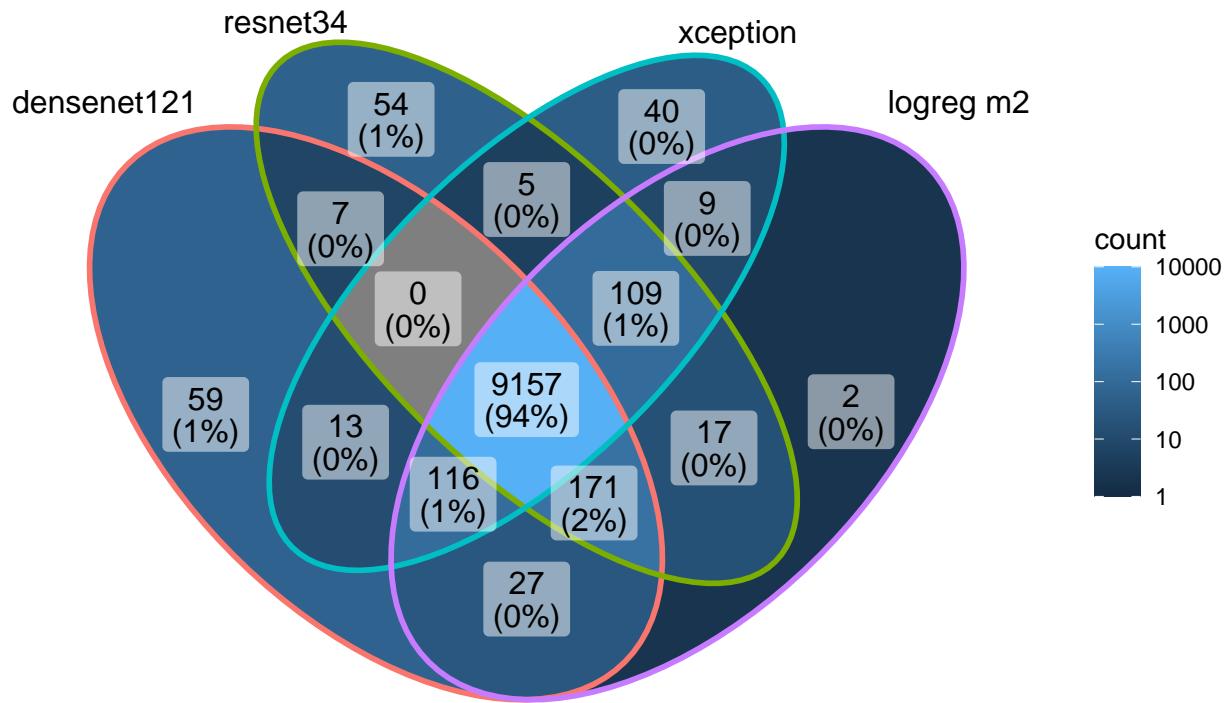


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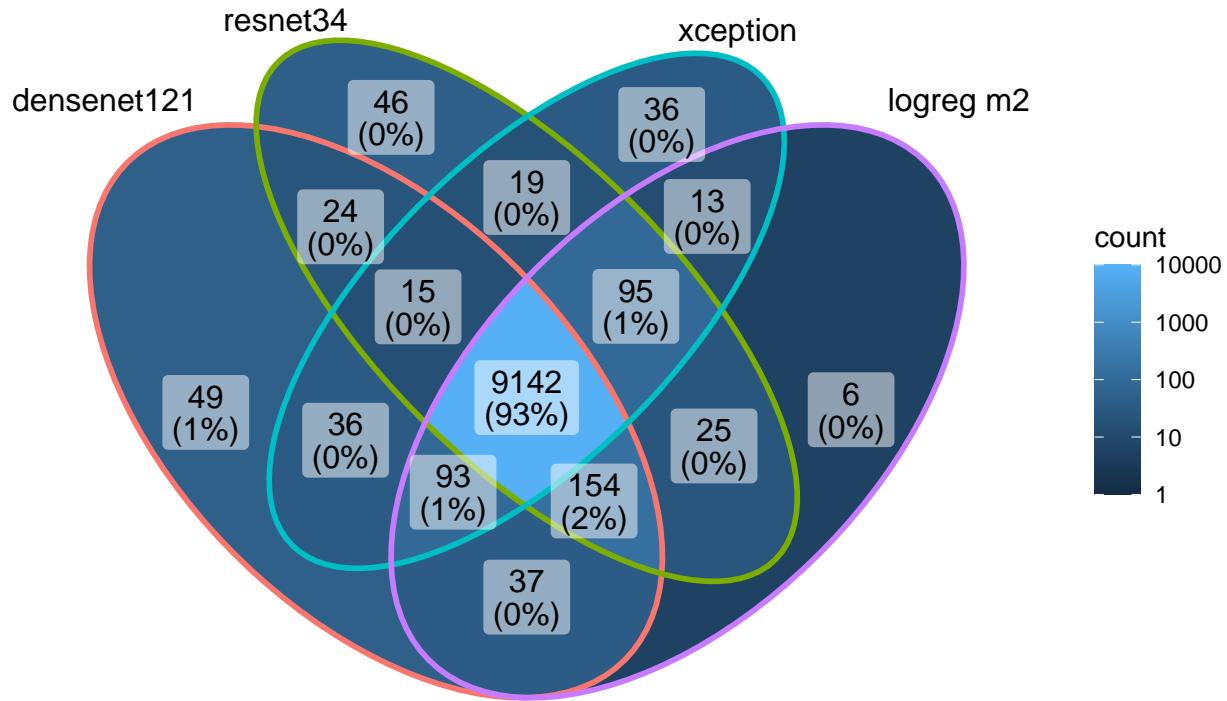


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tt – replication 28

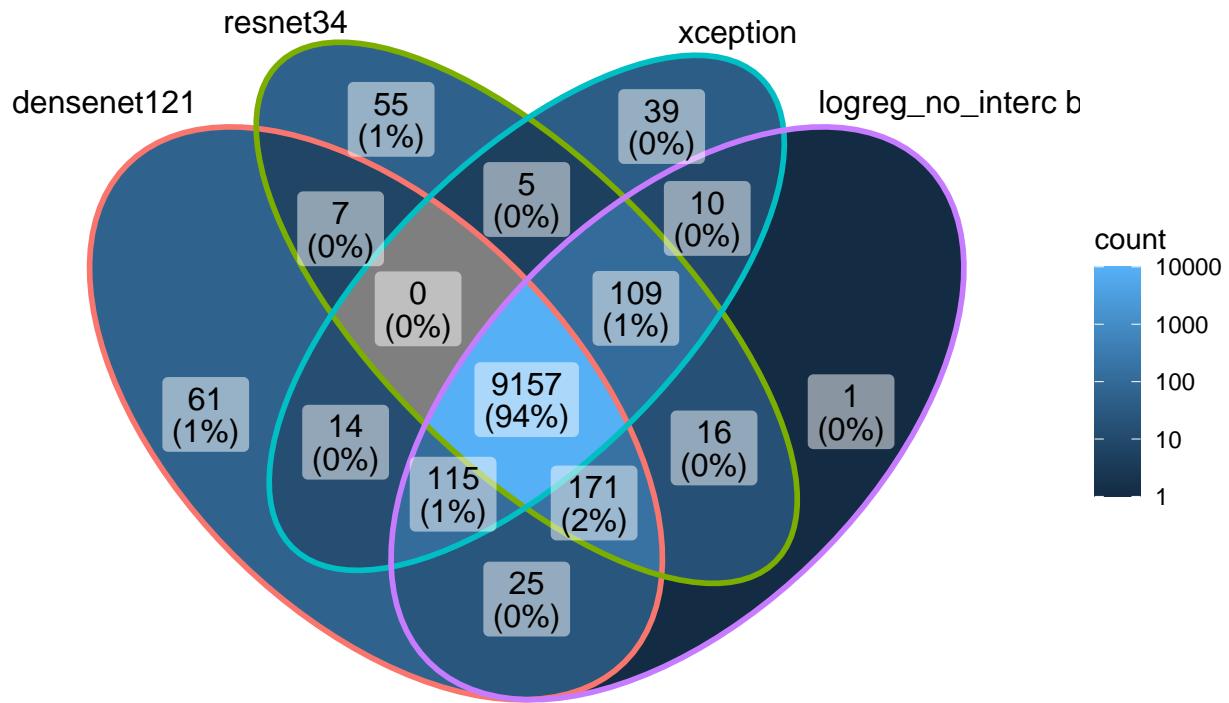


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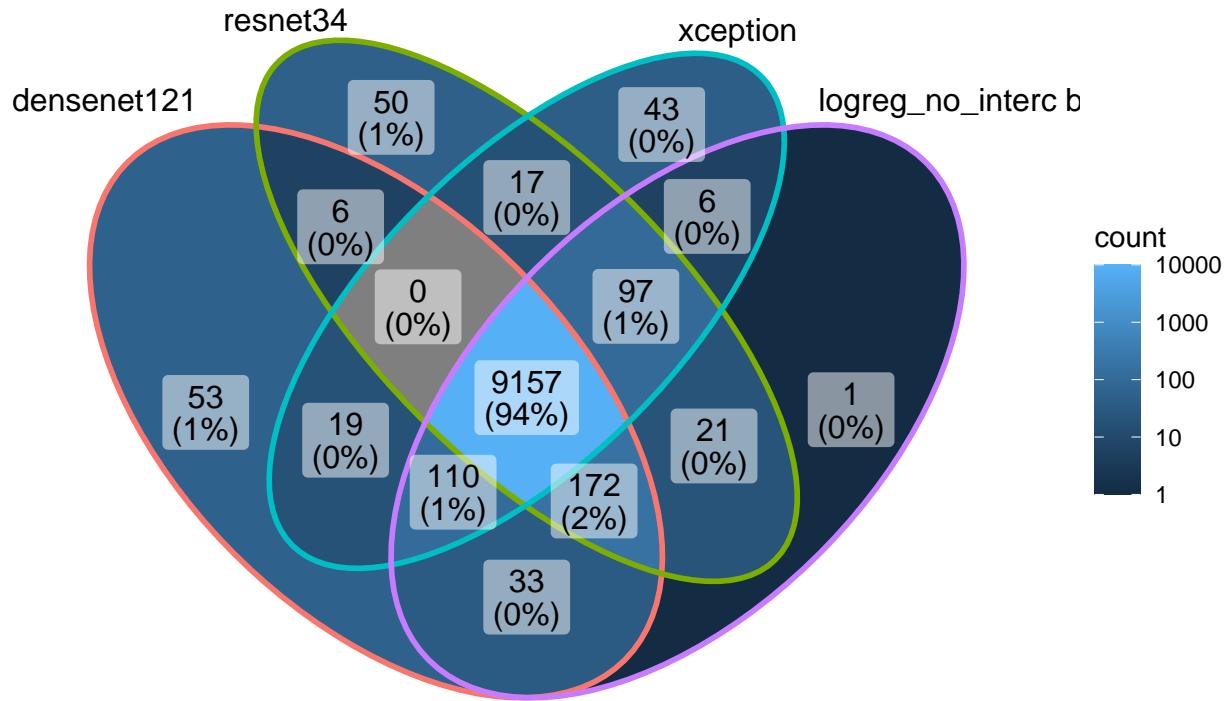
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tt – replication 28



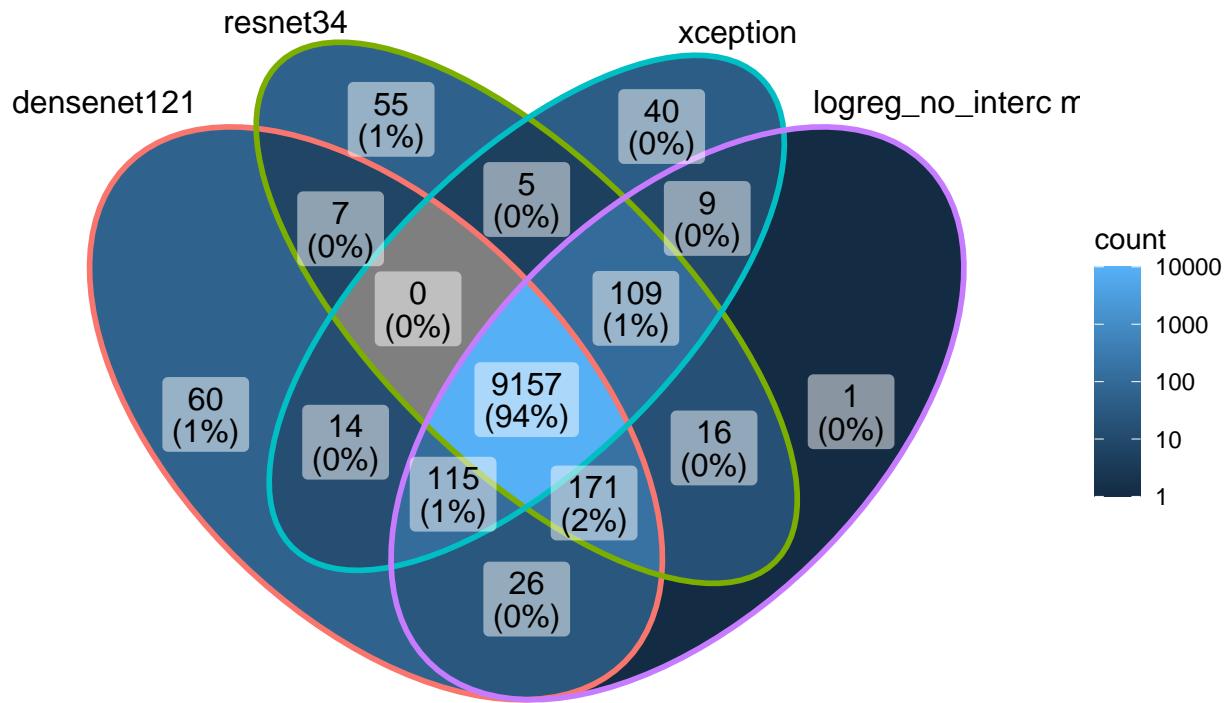
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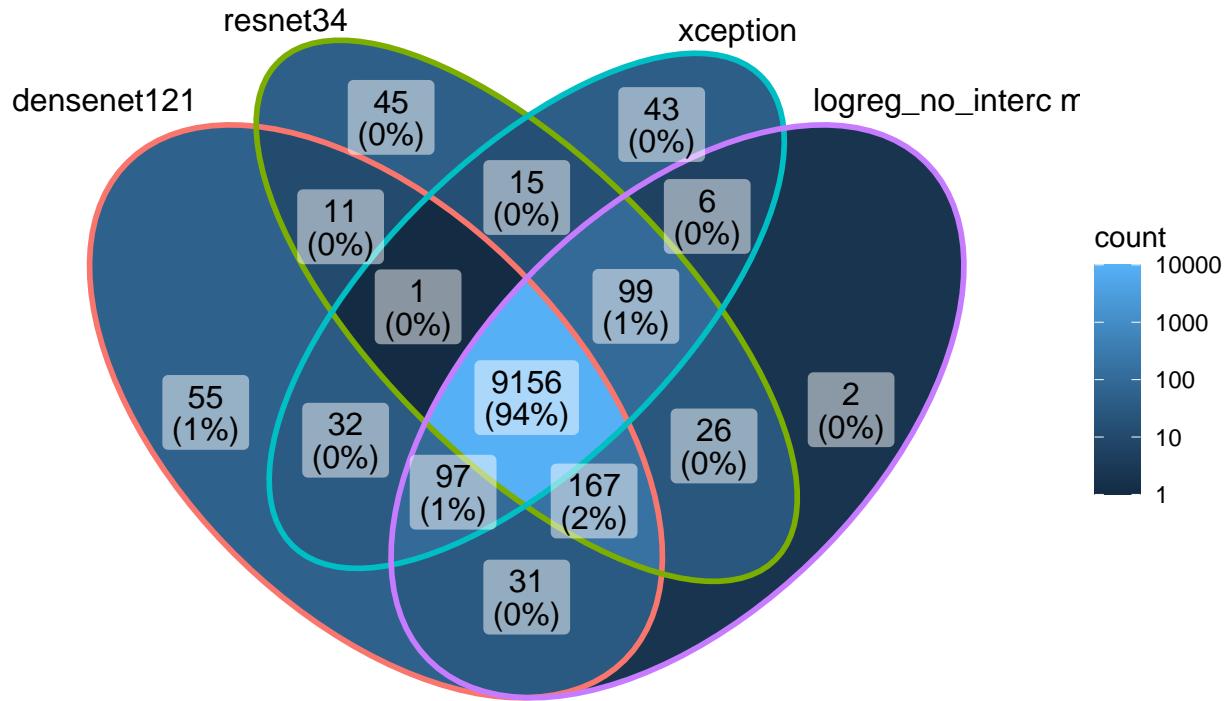


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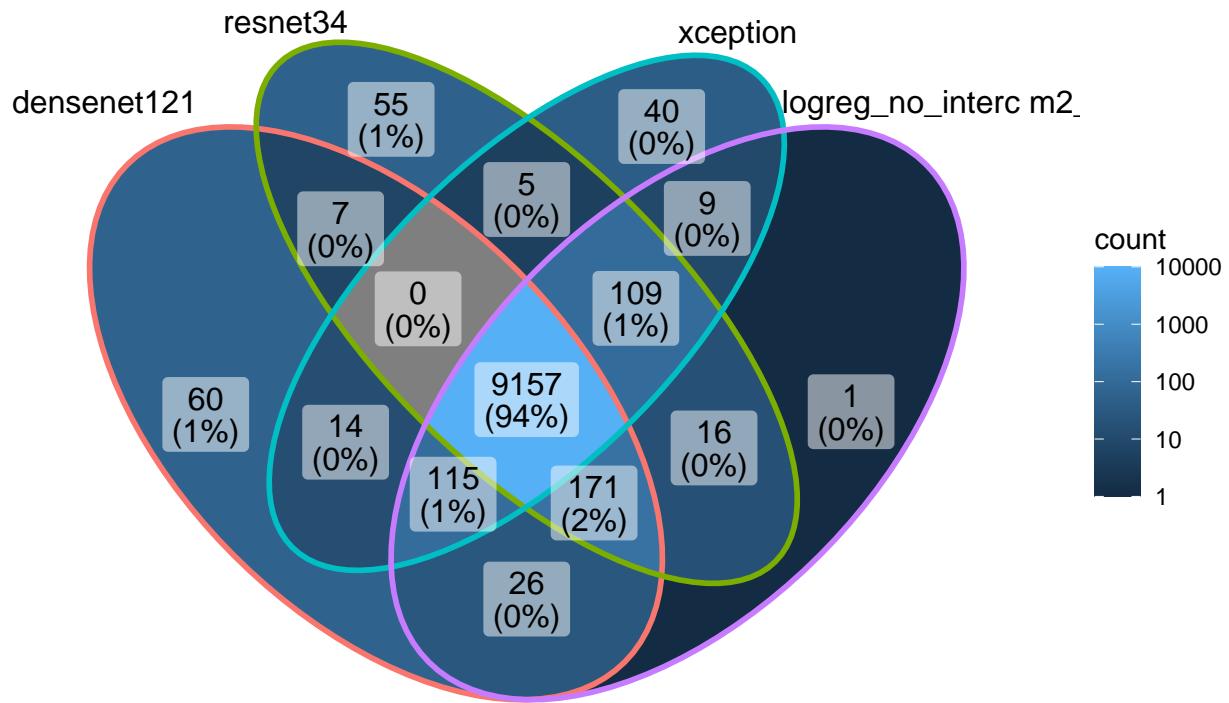


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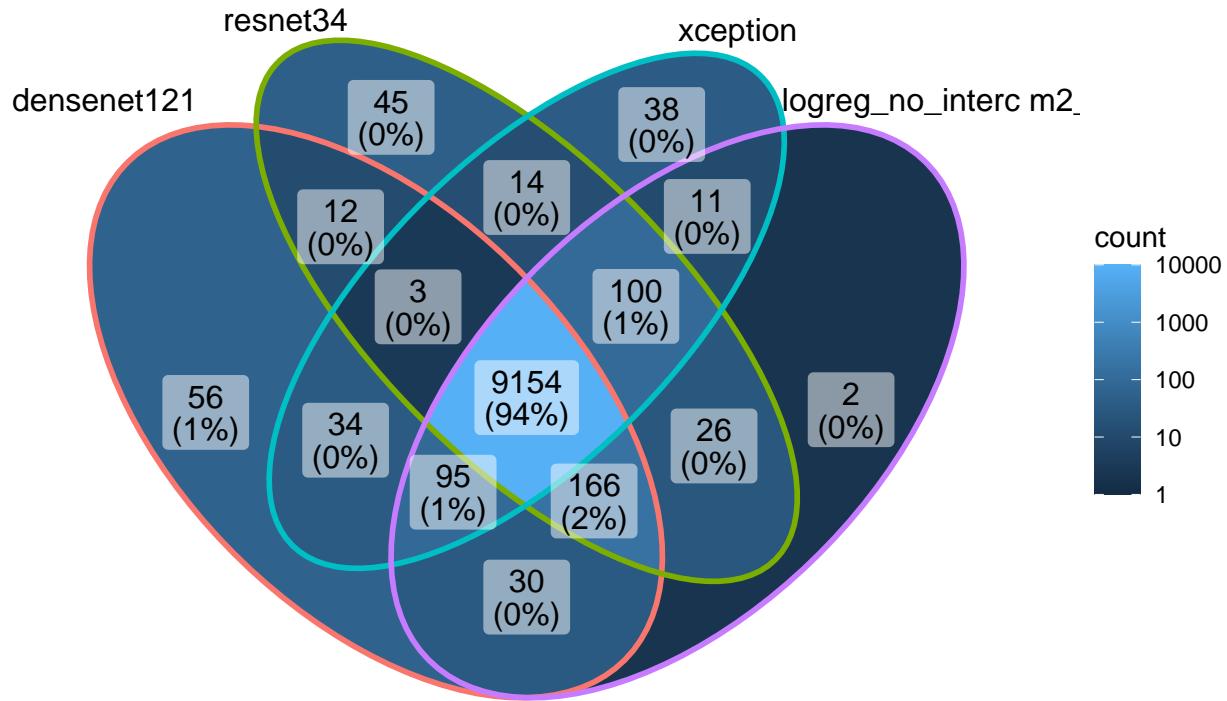


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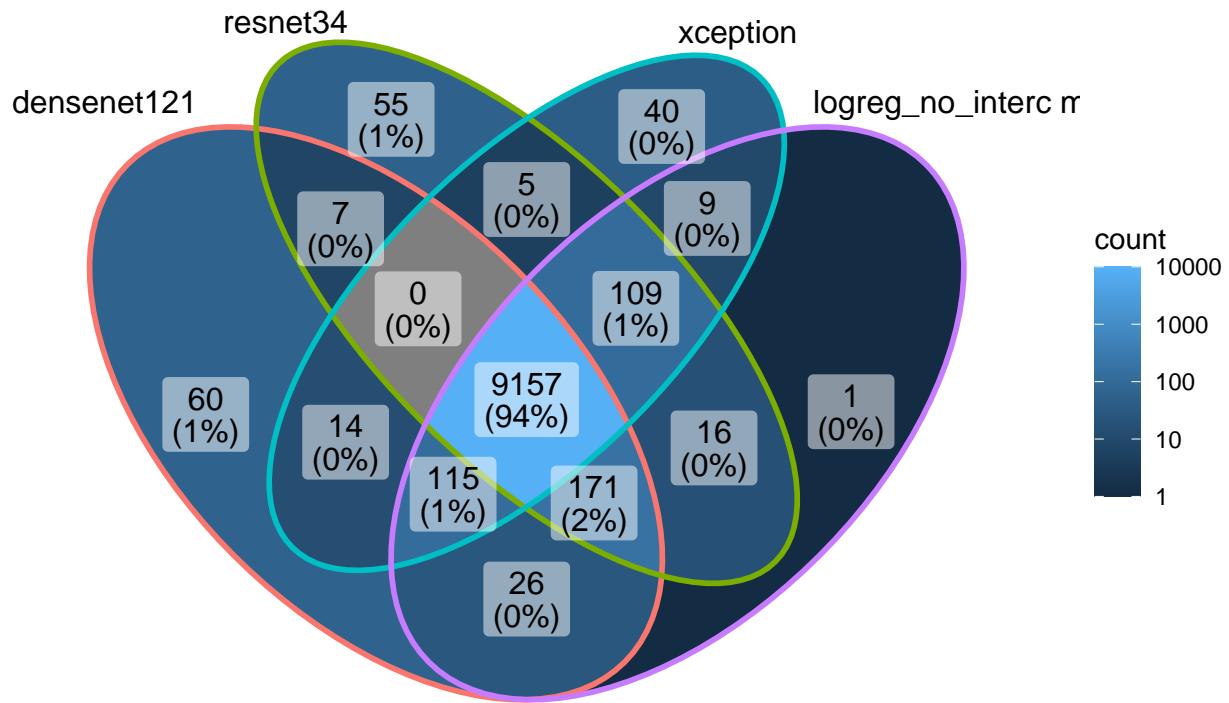


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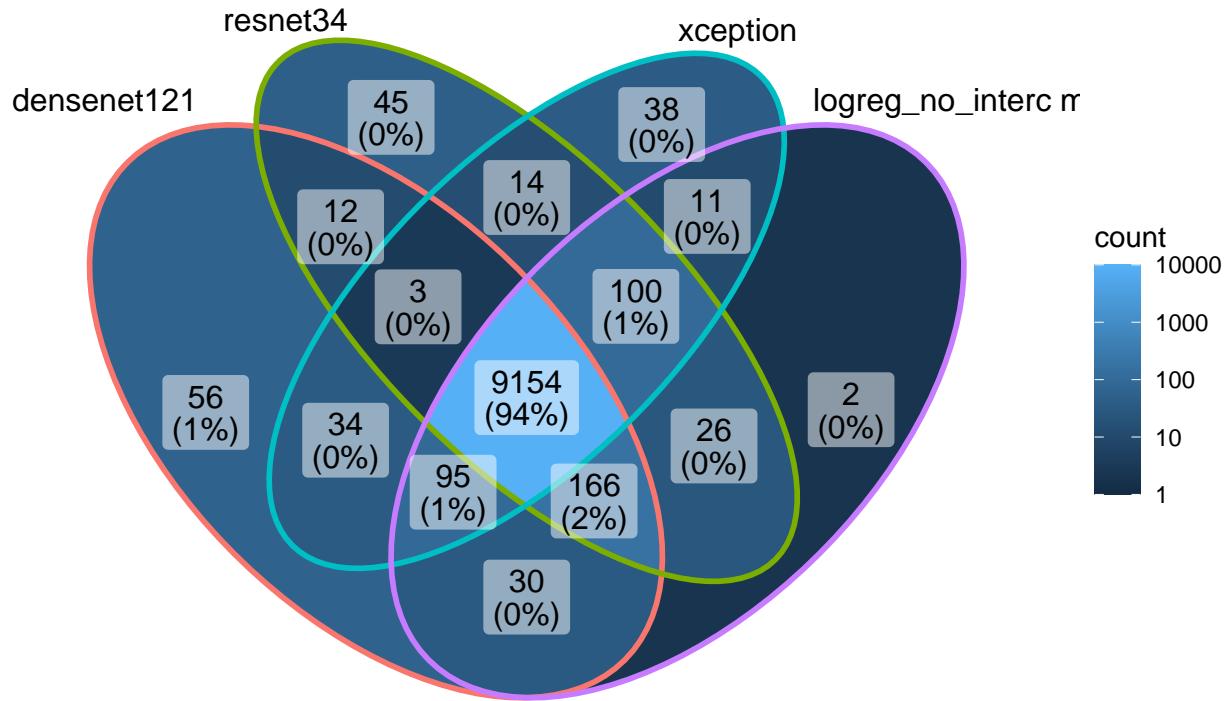


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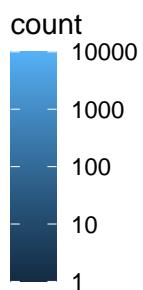
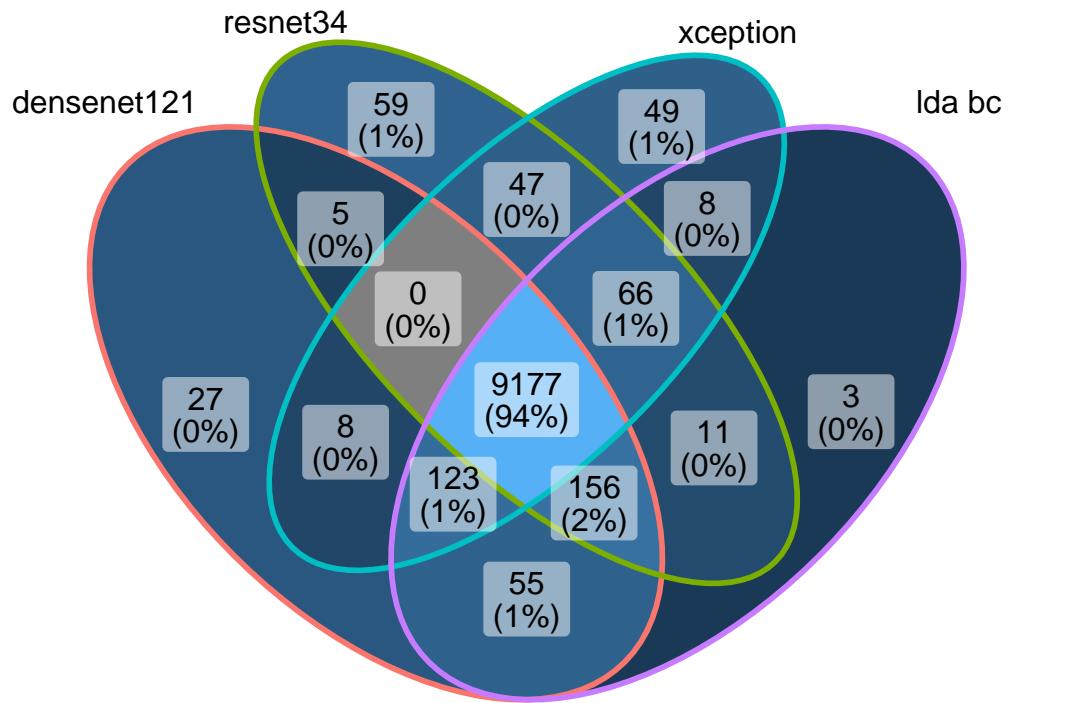


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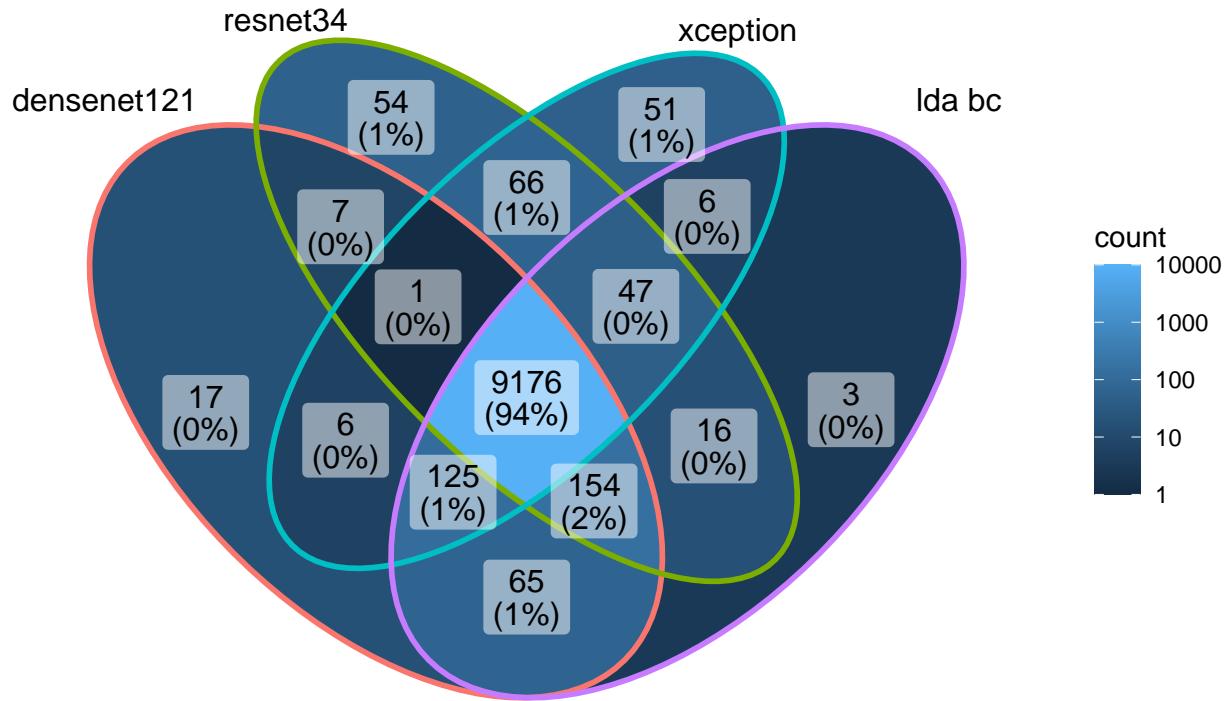


Warning: Transformation introduced infinite values in discrete y-axis

tt – replication 29

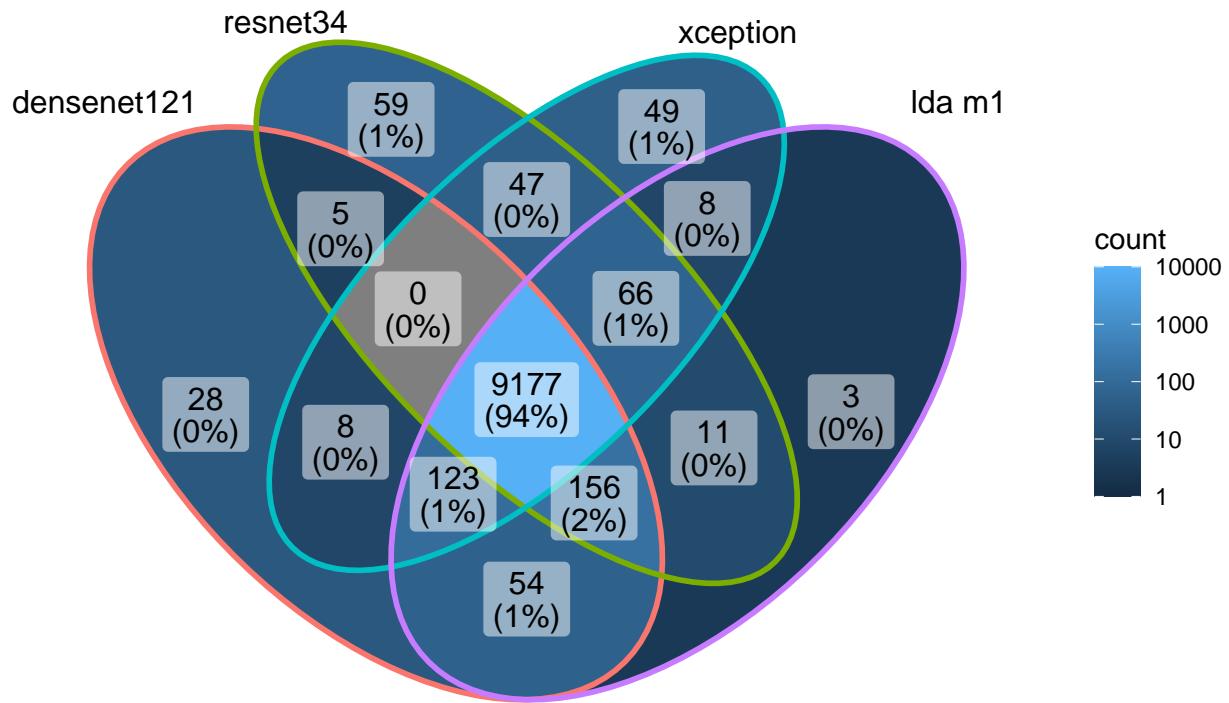


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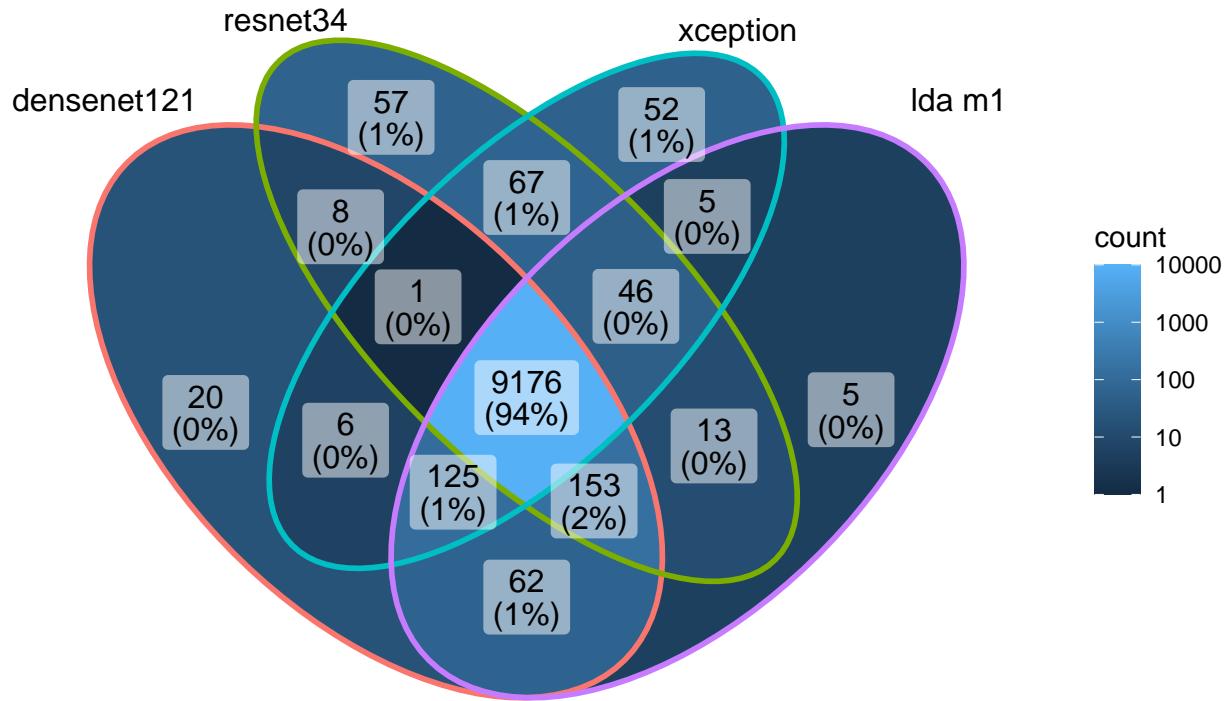


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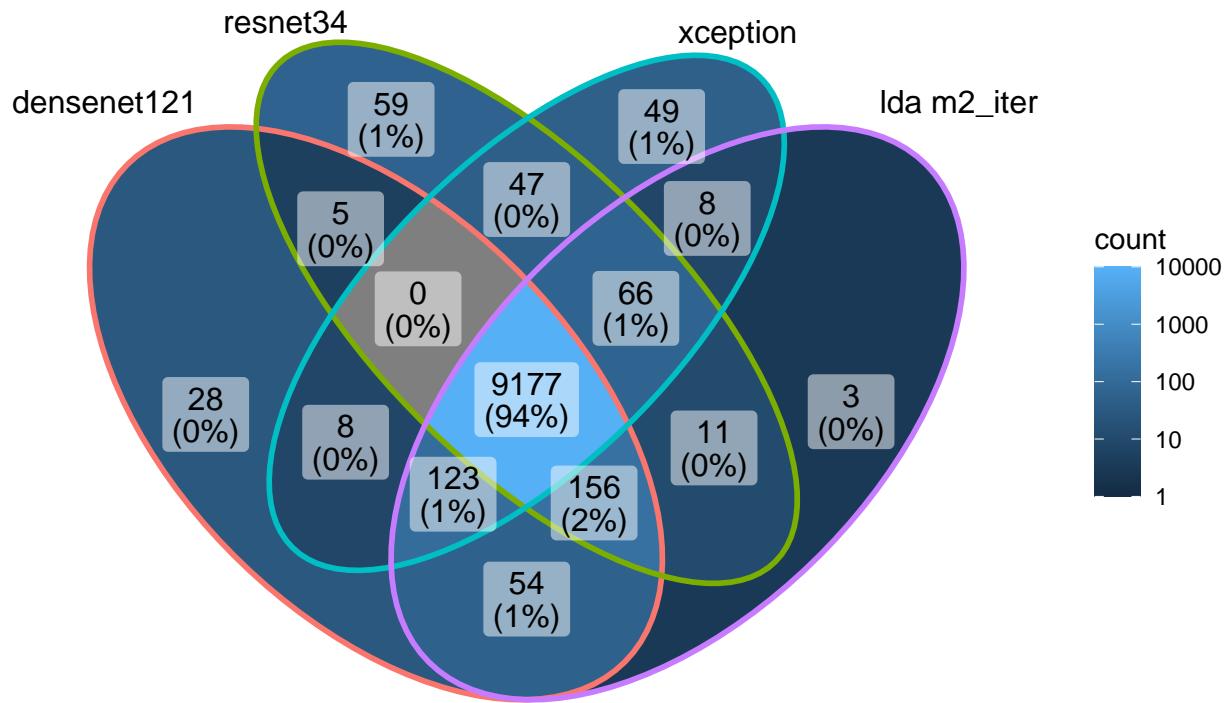


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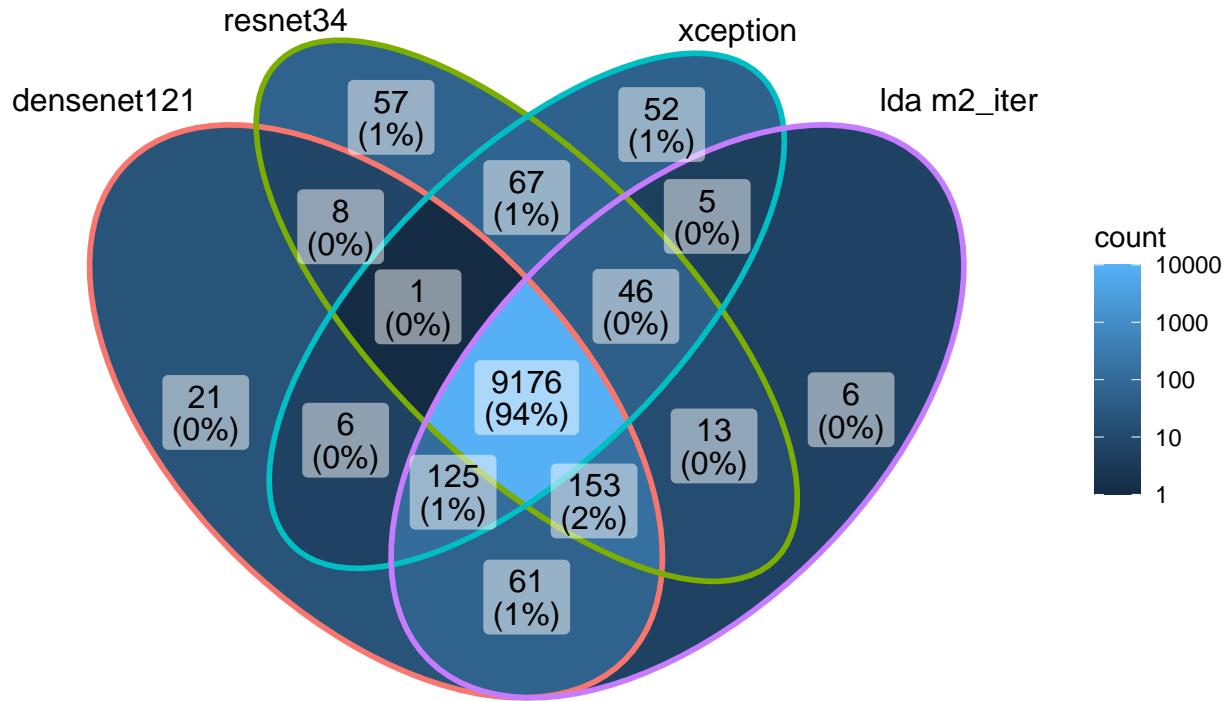


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tt – replication 29

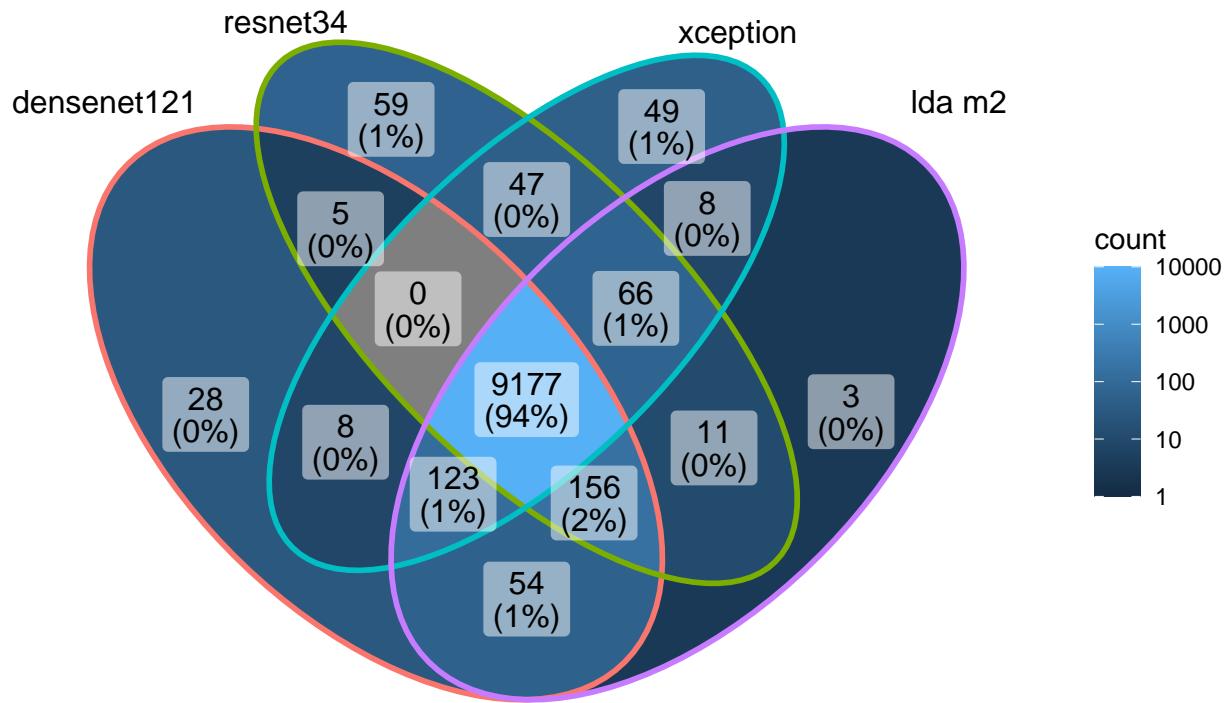


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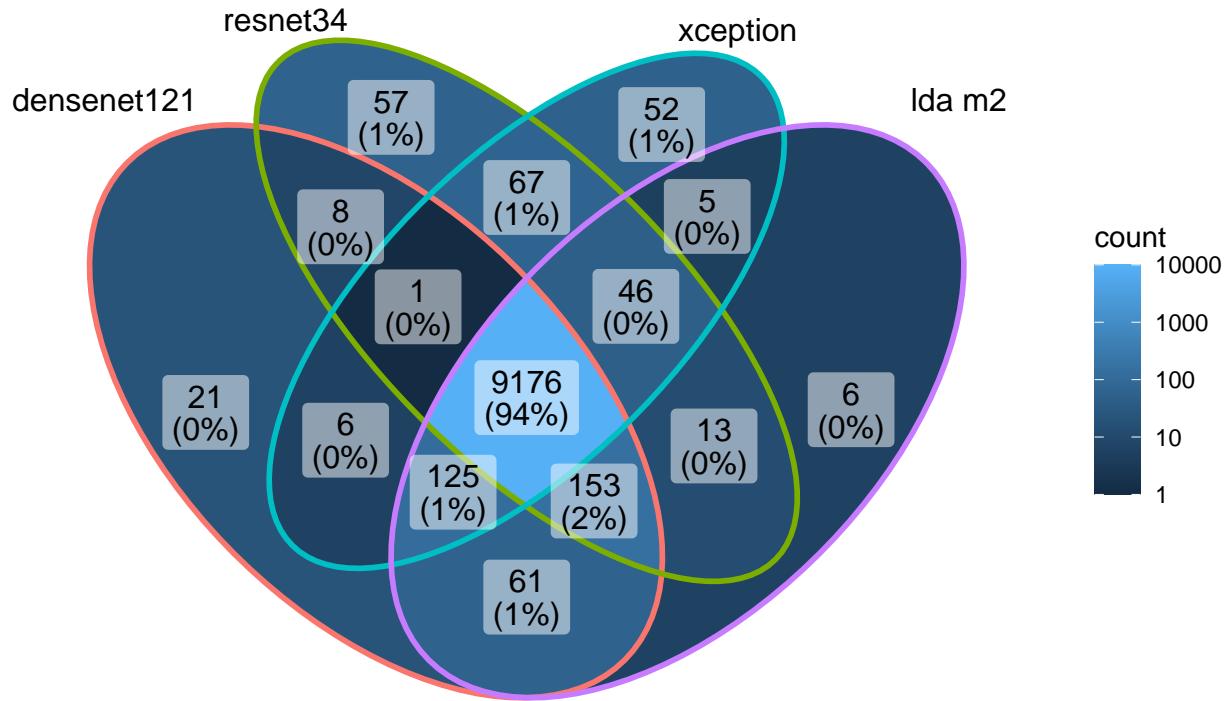


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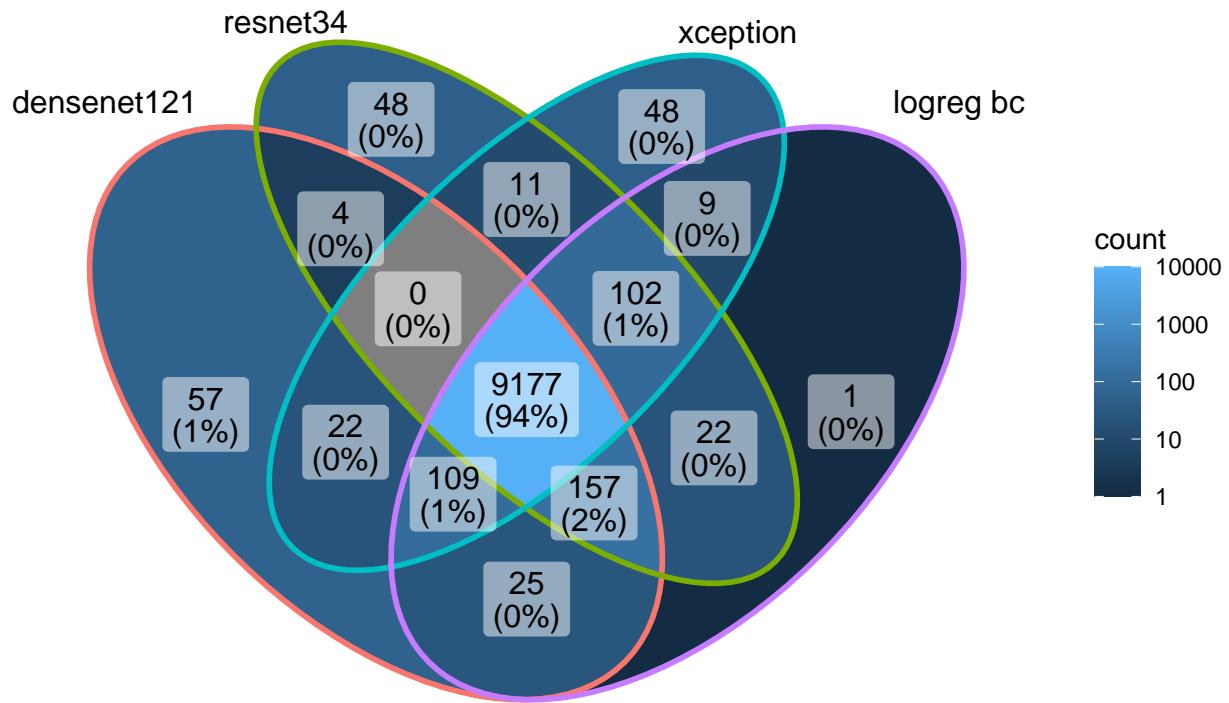


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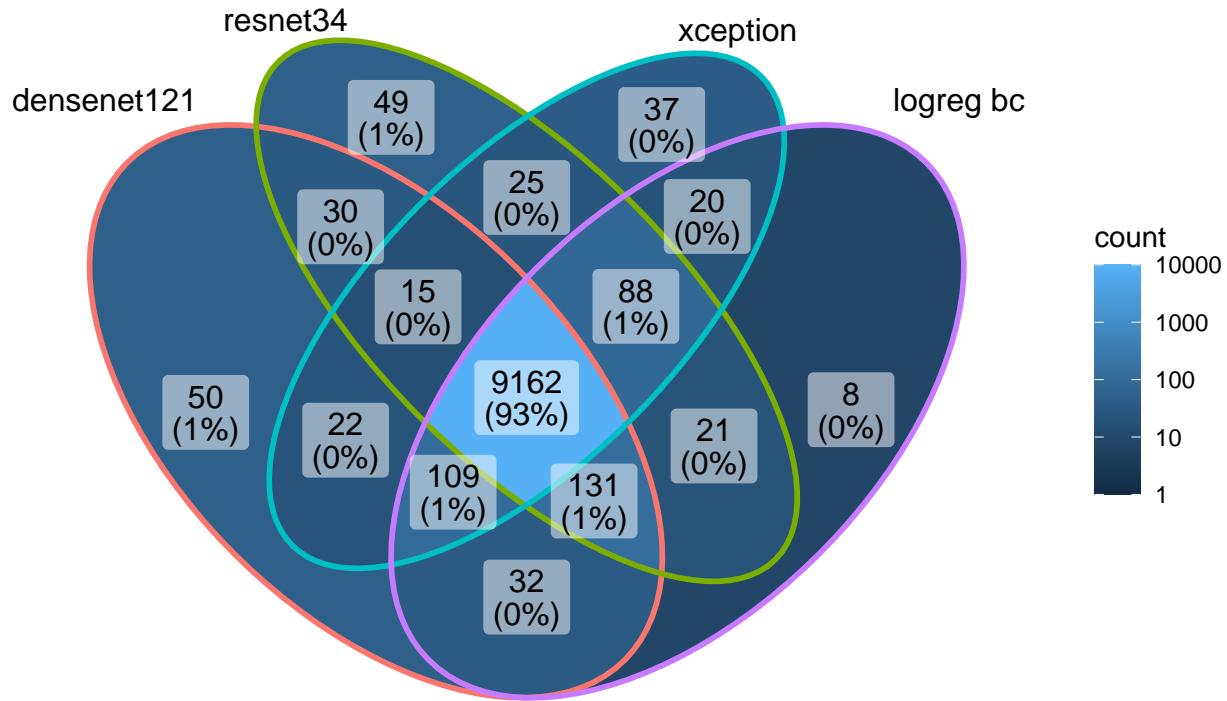


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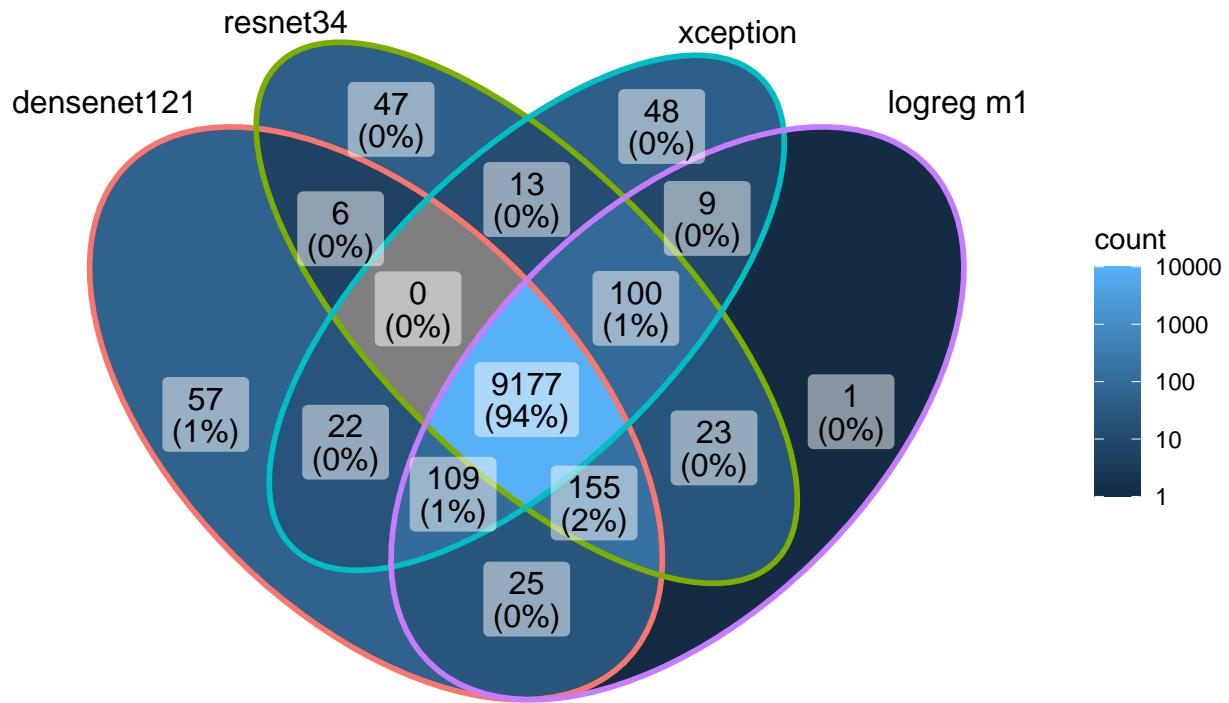


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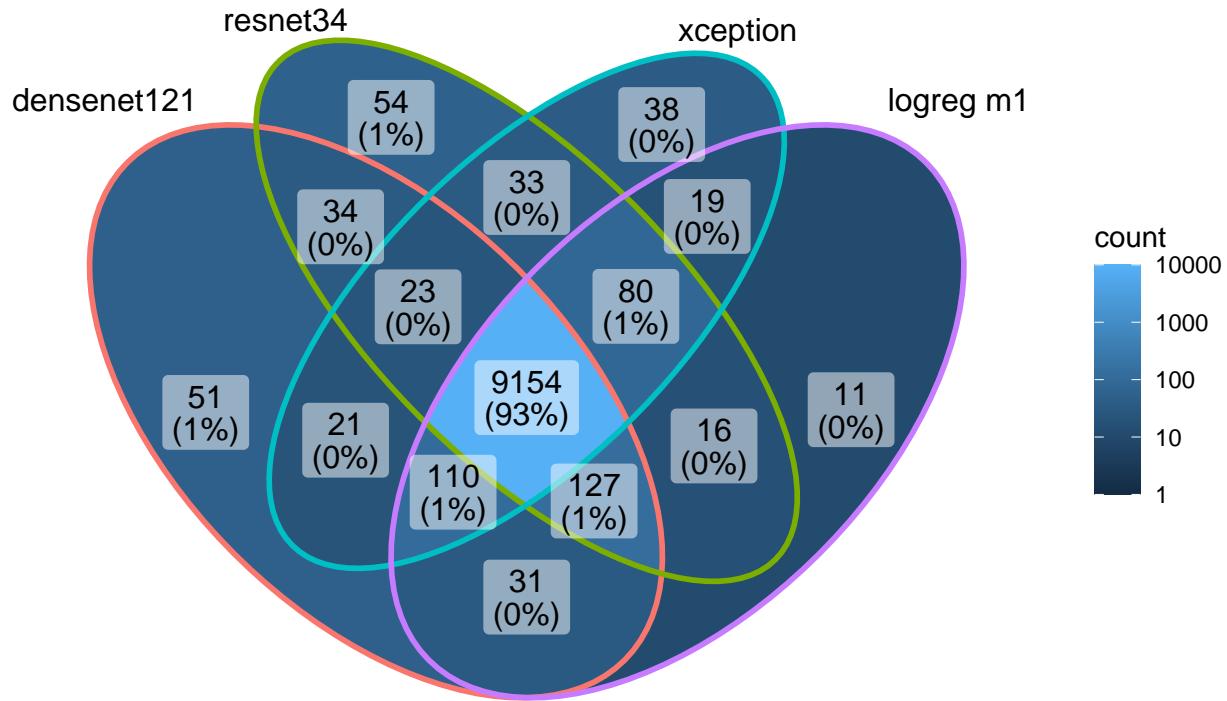


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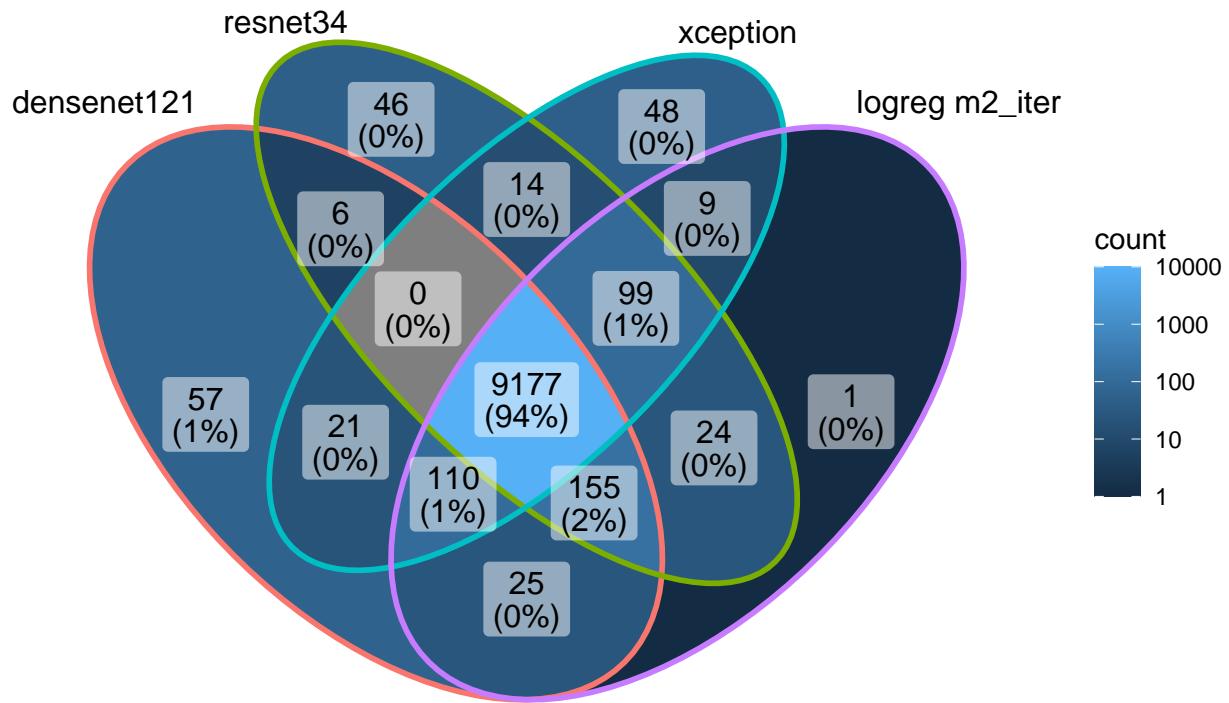


vt – replication 29

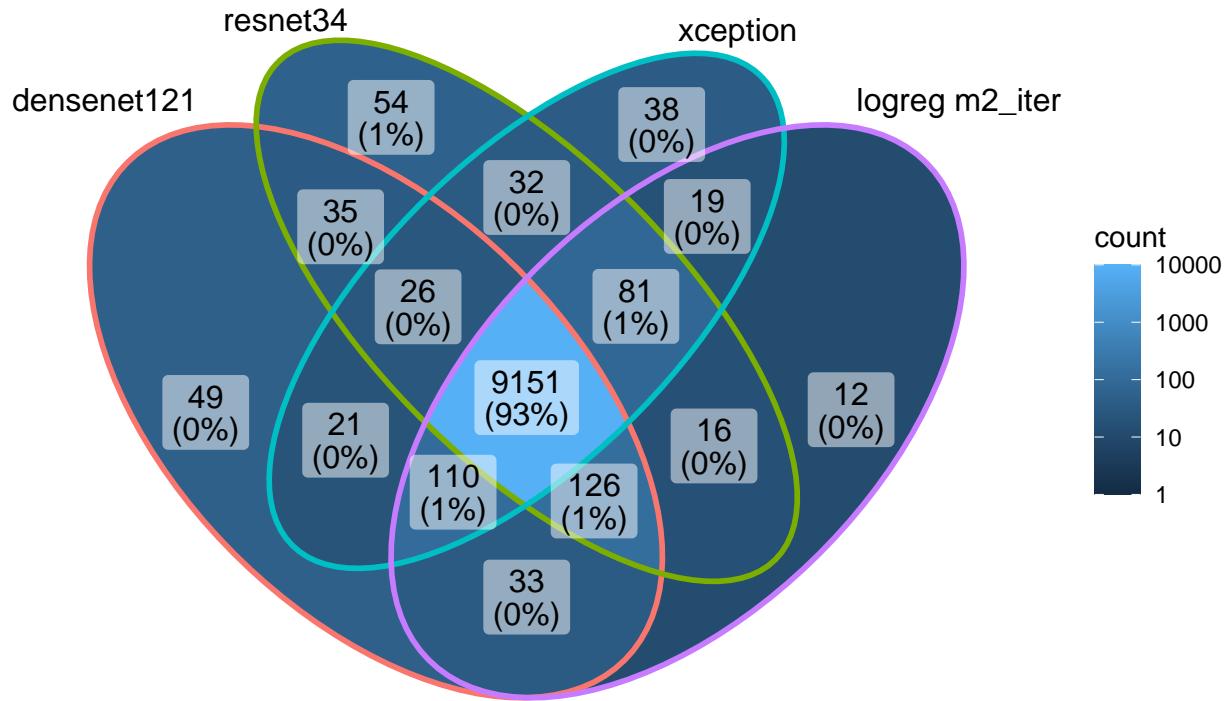


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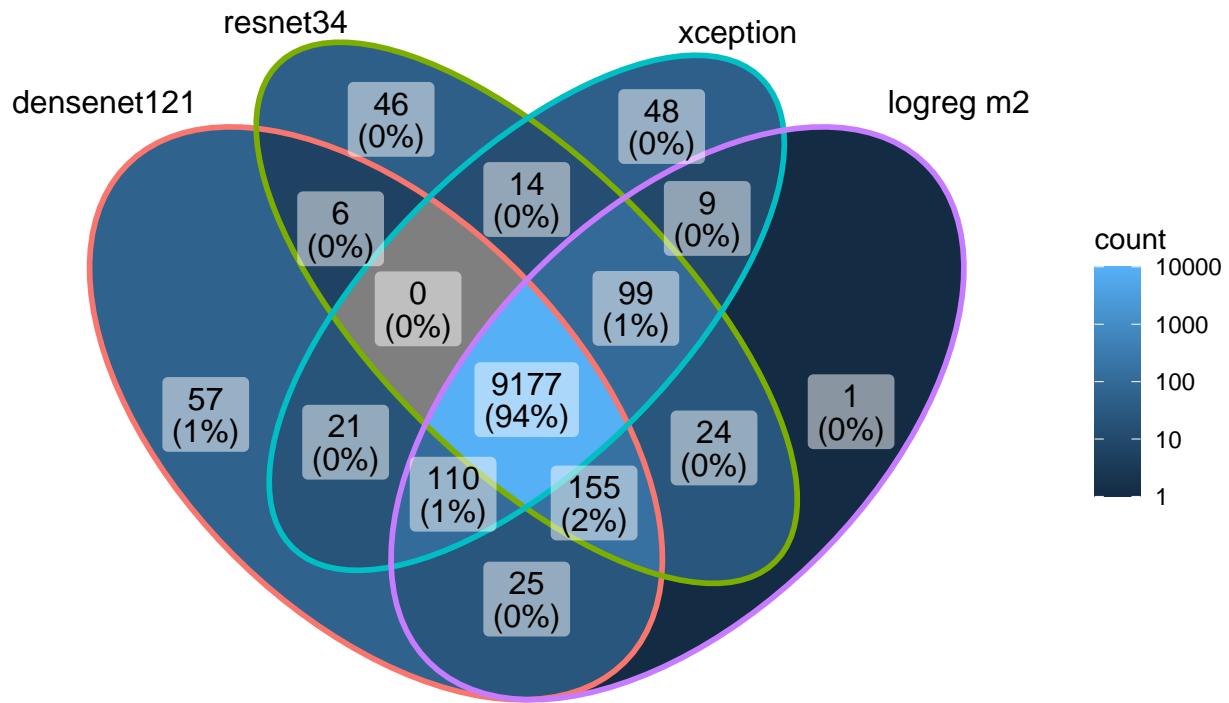


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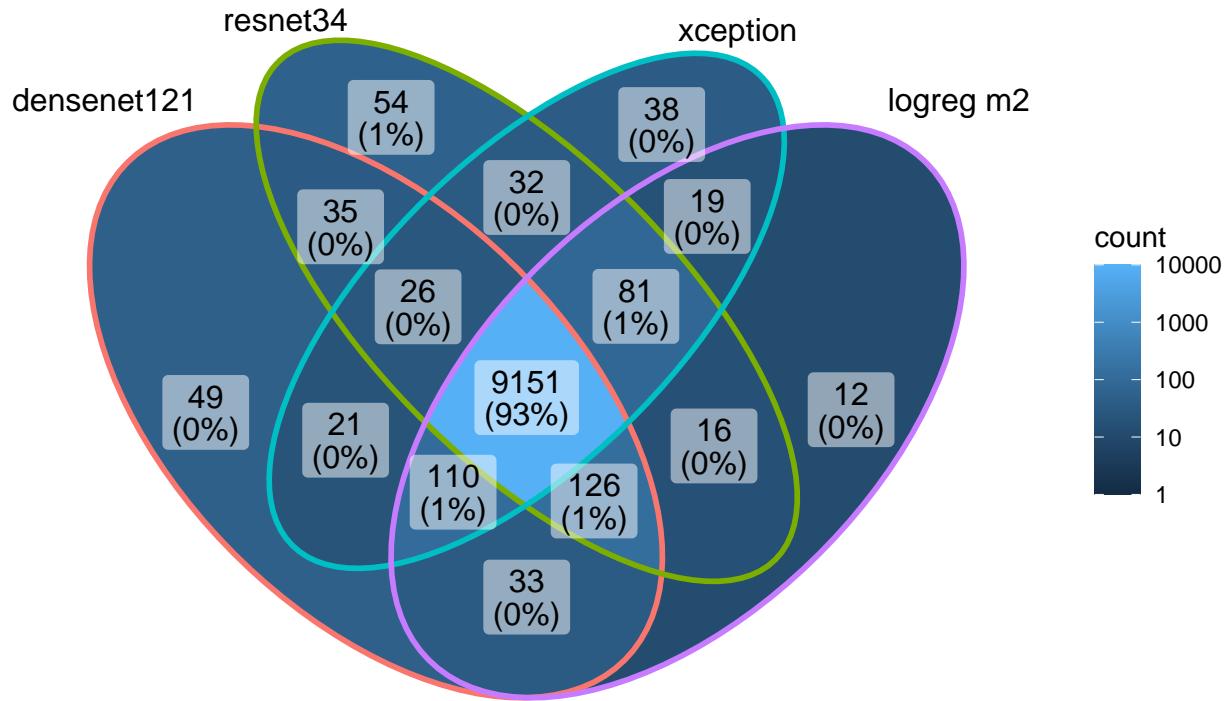


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tt – replication 29

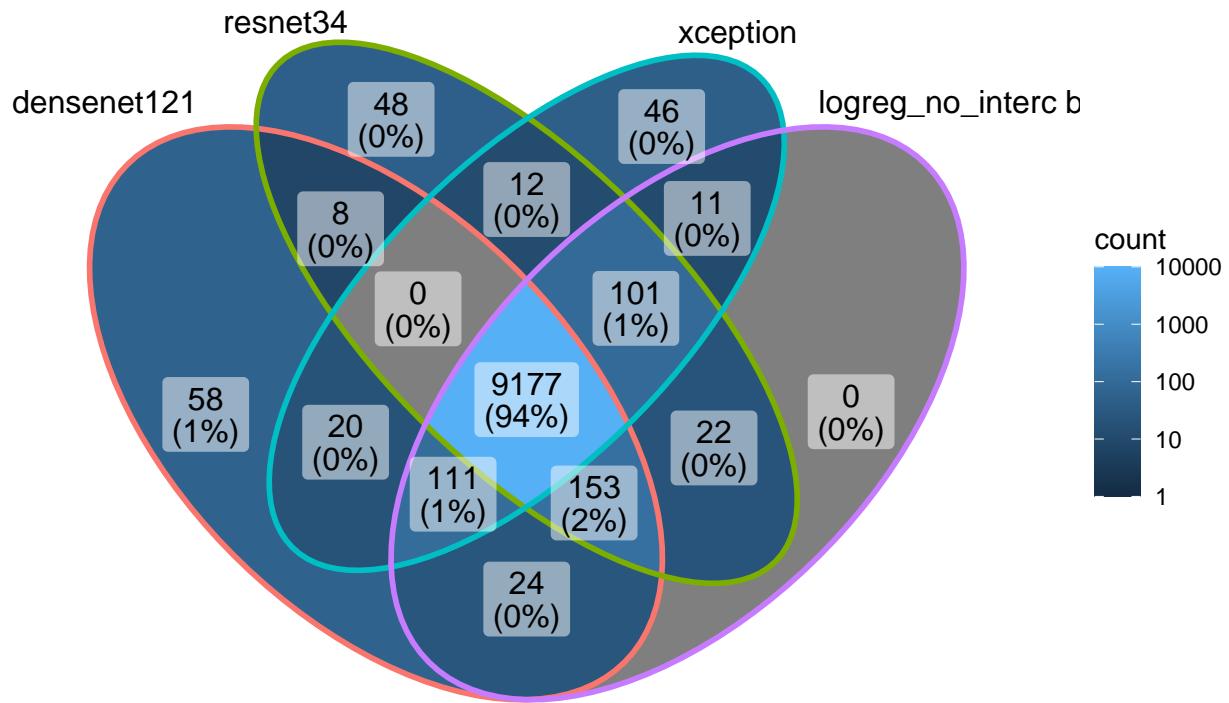


vt – replication 29



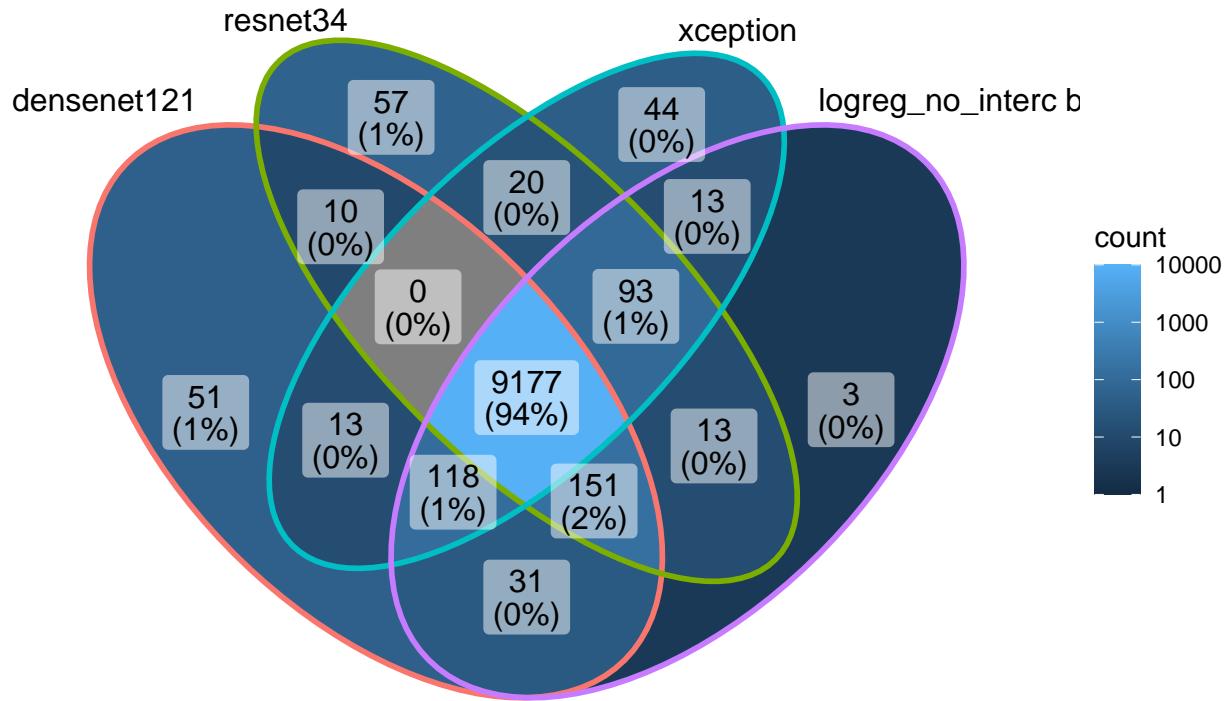
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tt – replication 29



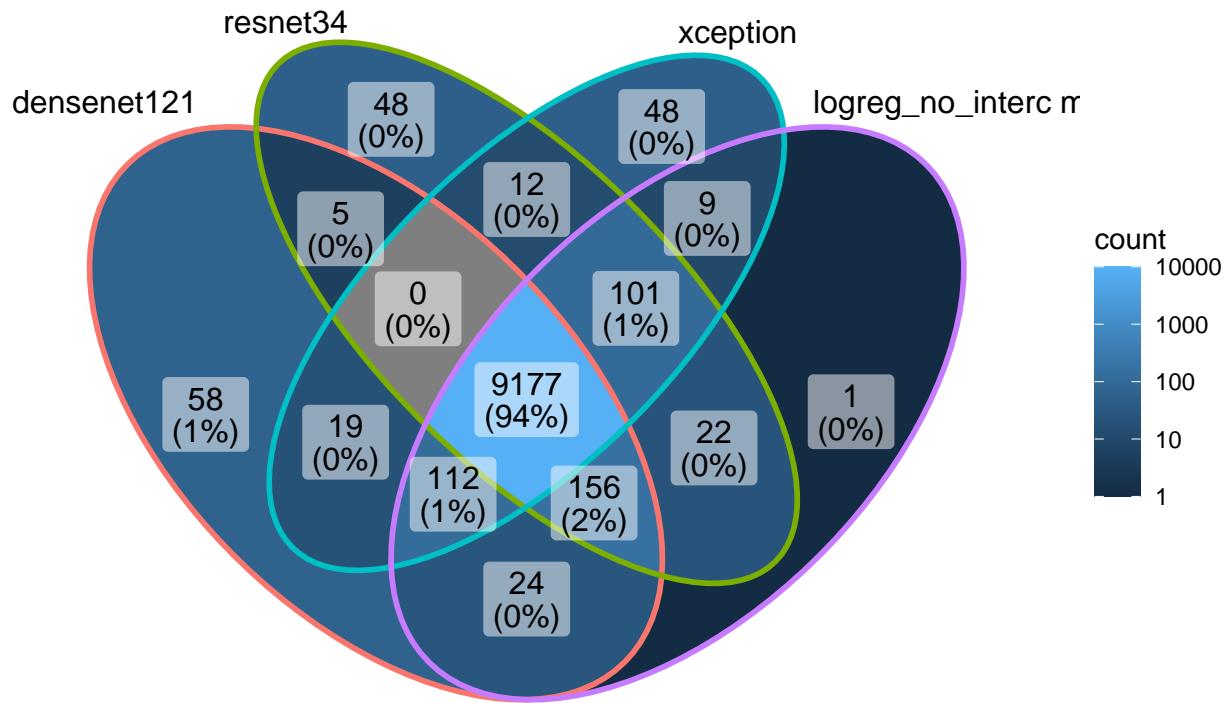
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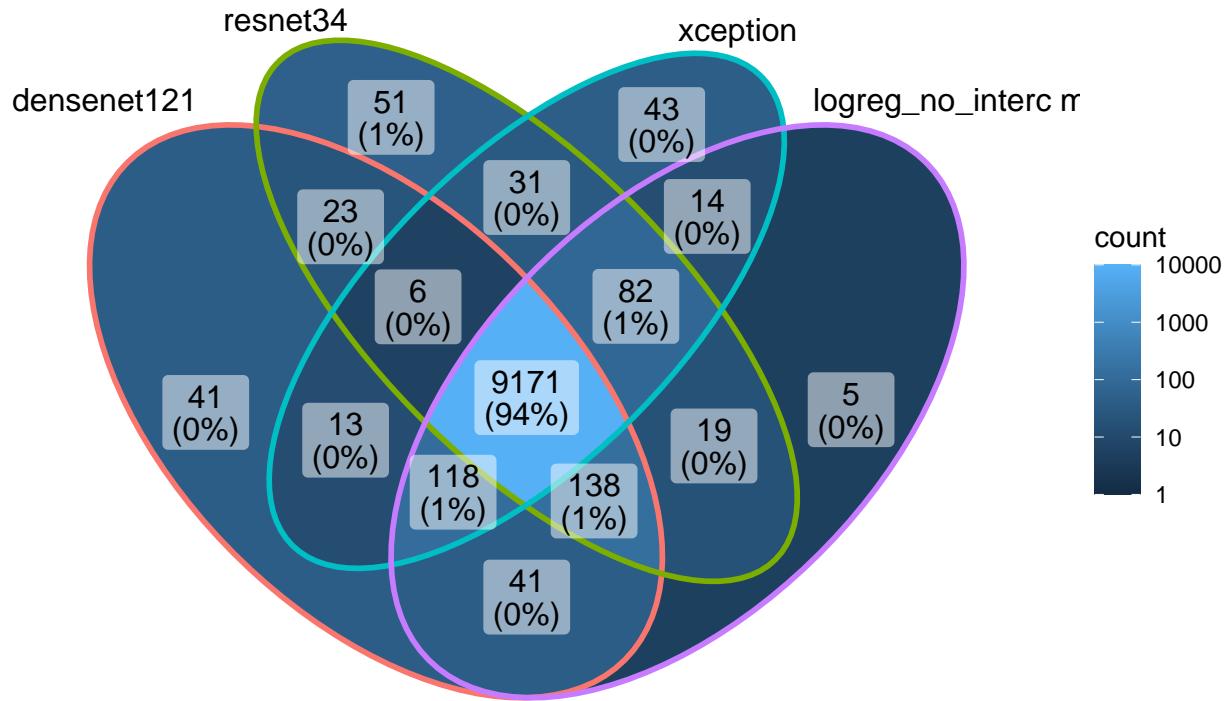


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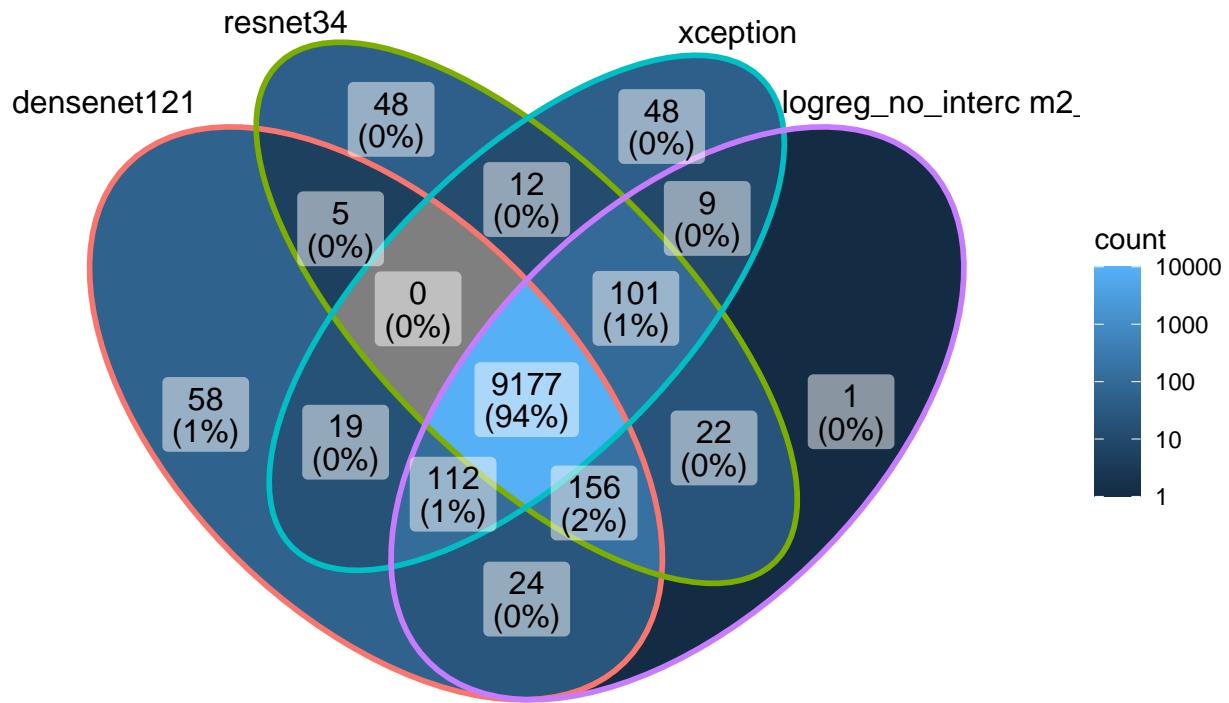


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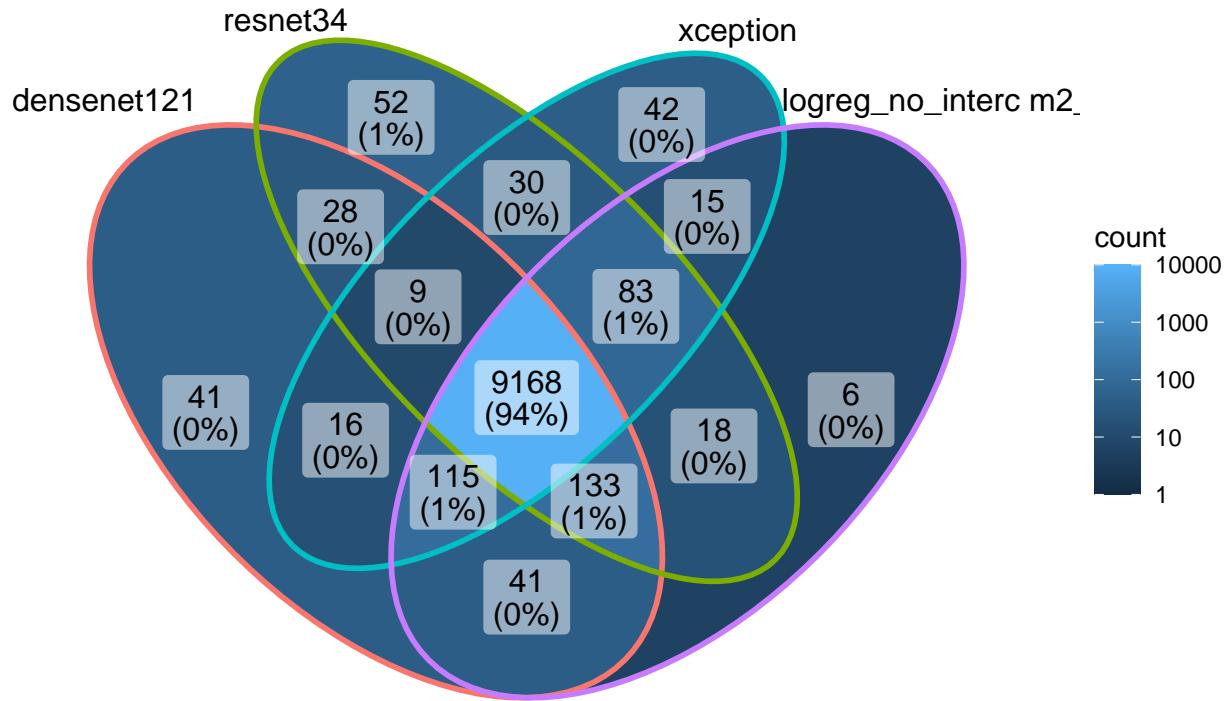


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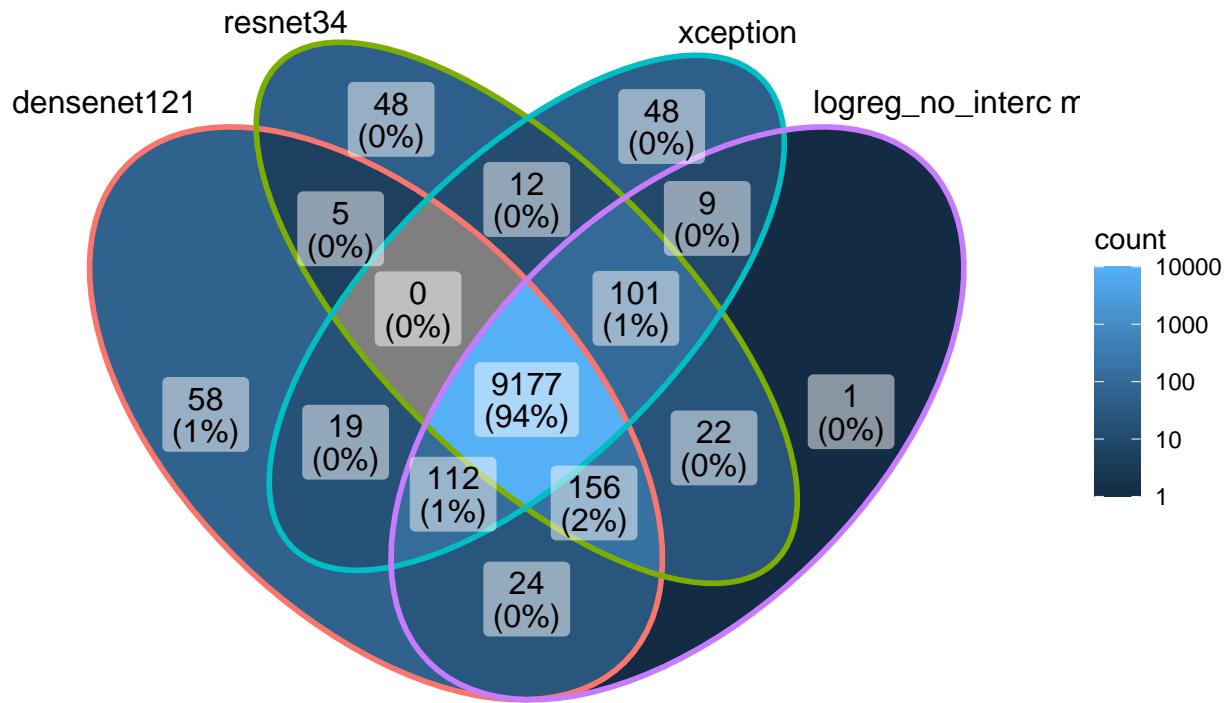


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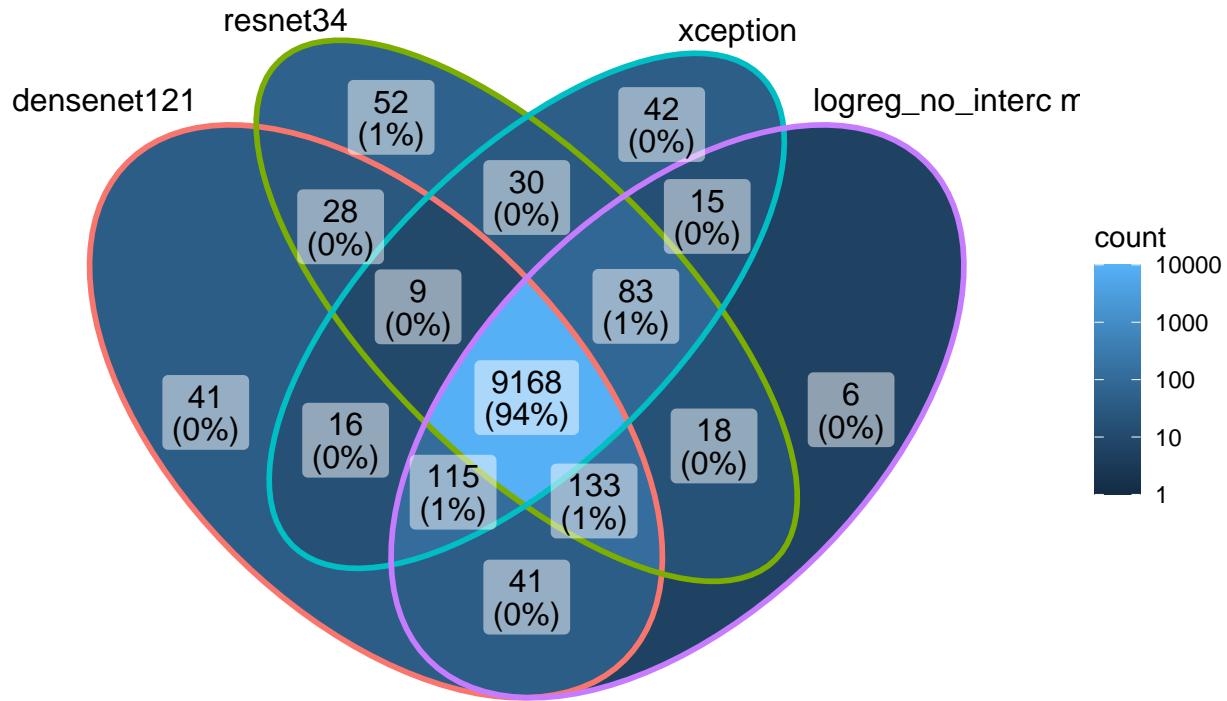


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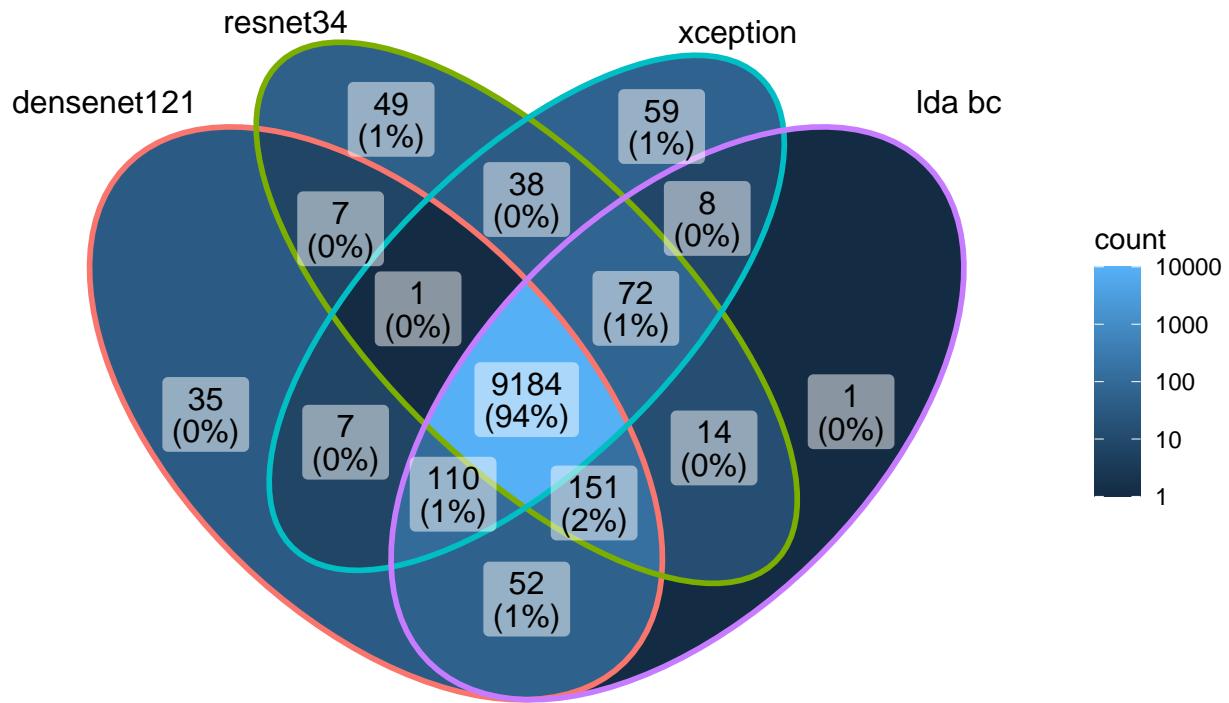
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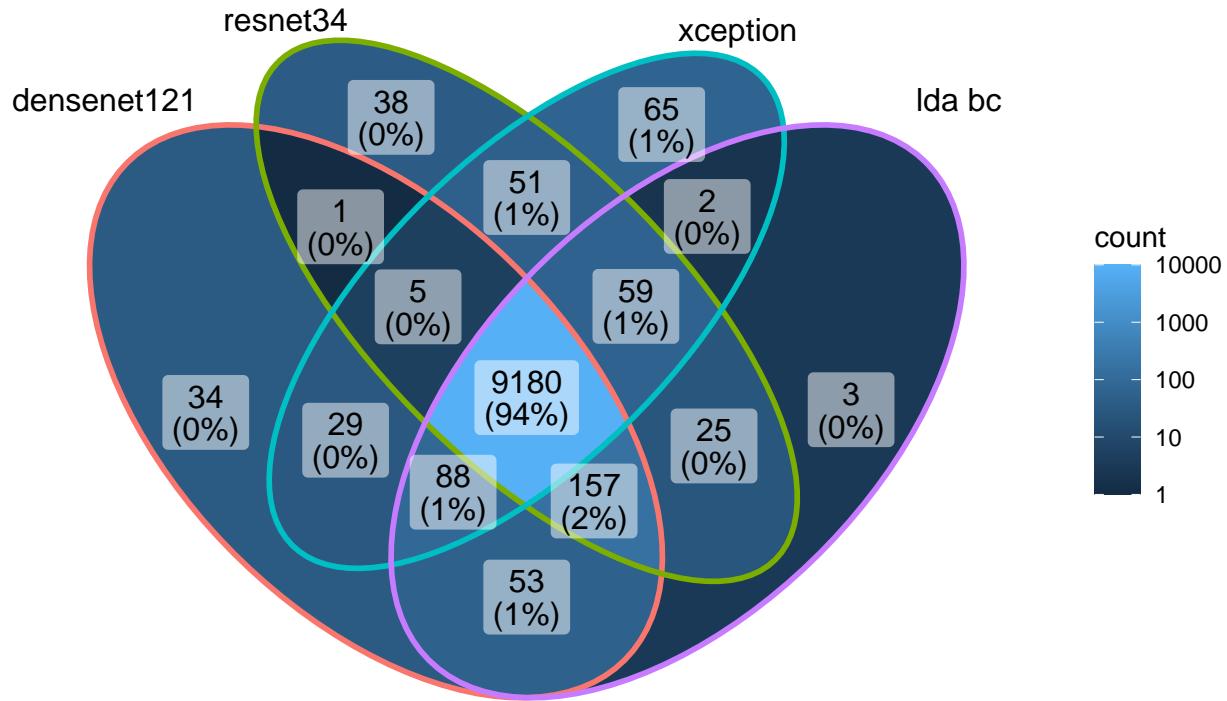
vt – replication 29



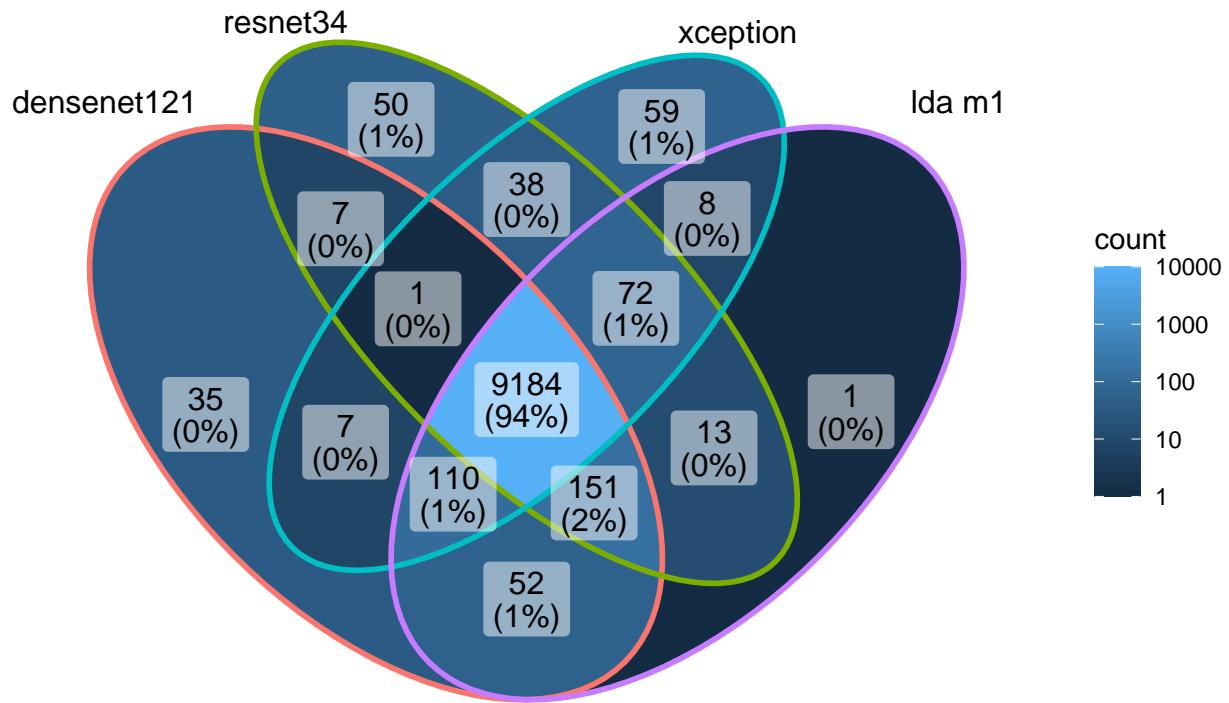
tt – replication 30



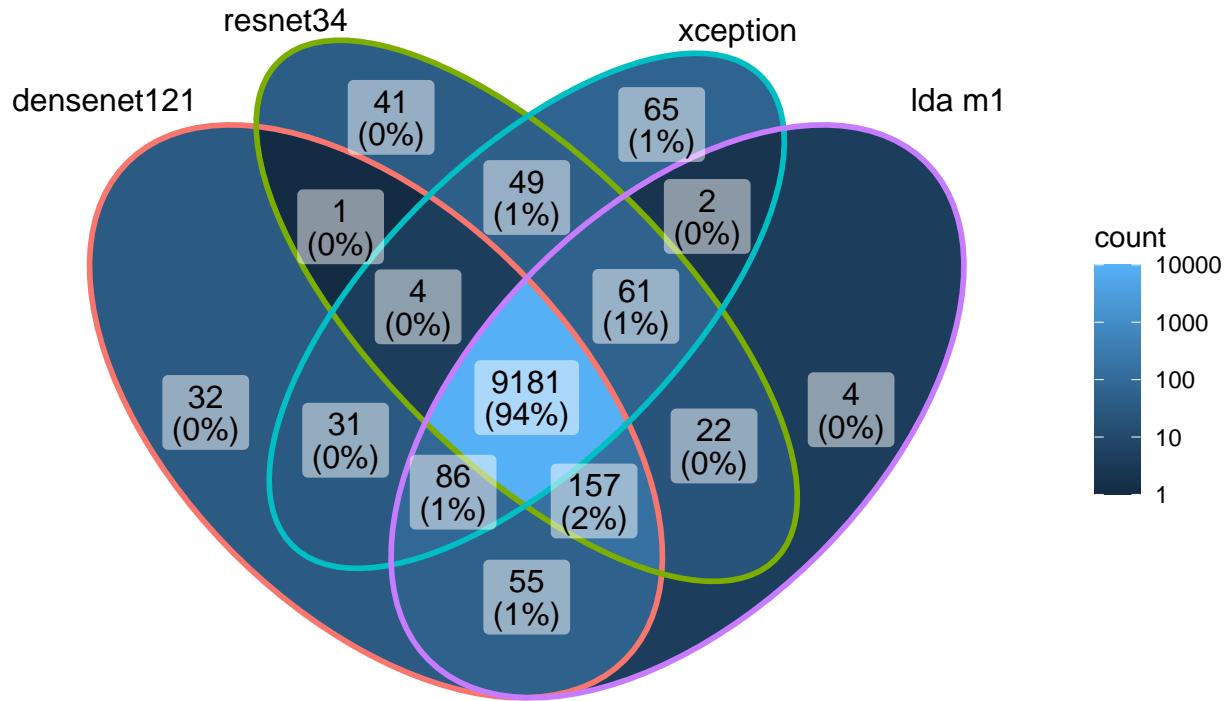
vt – replication 30



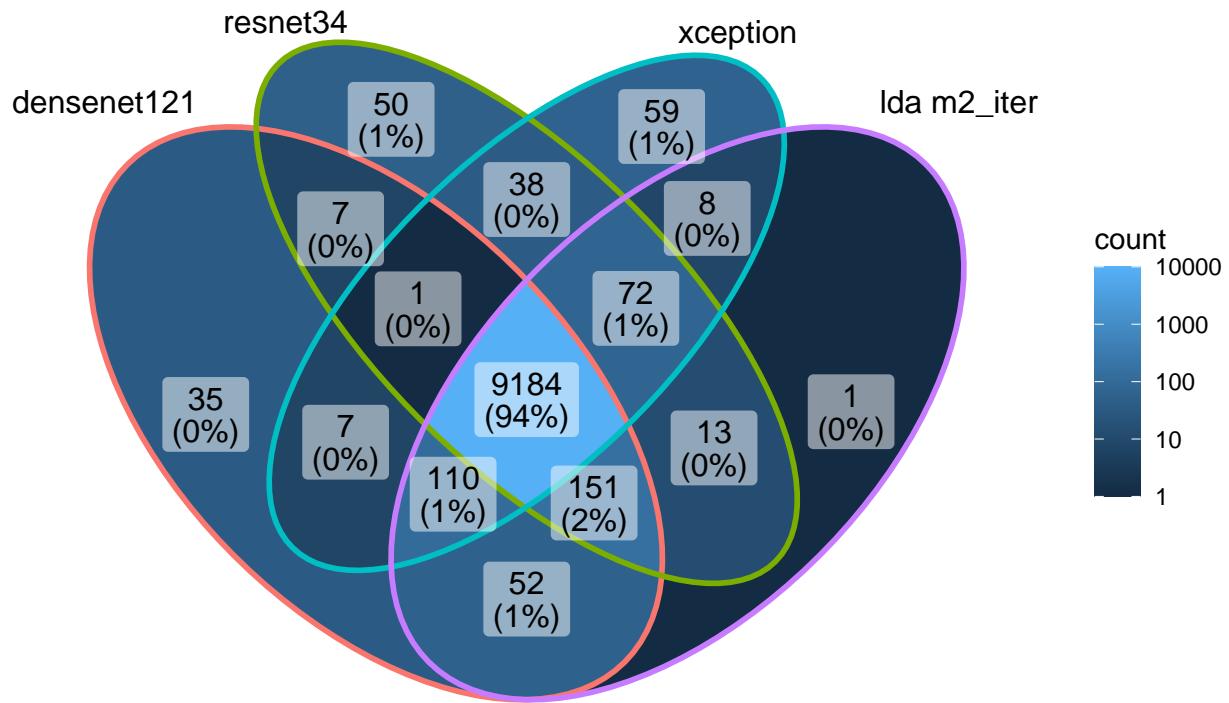
tt – replication 30



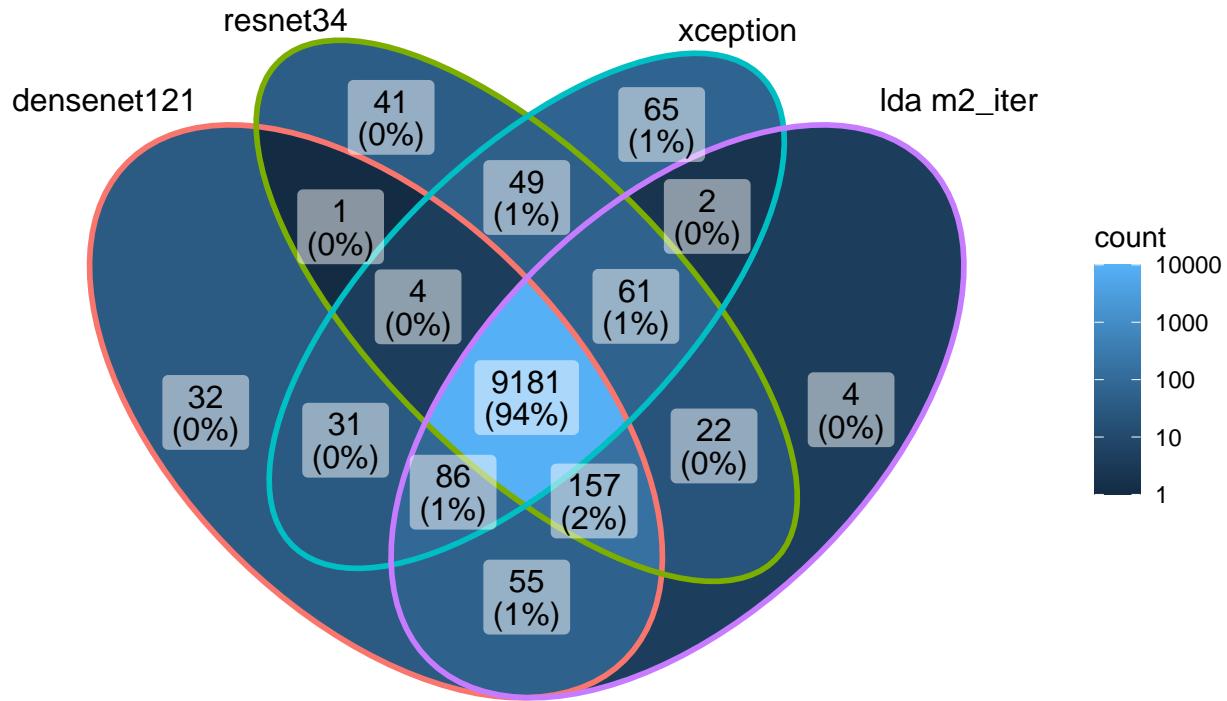
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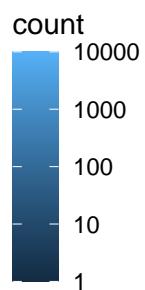
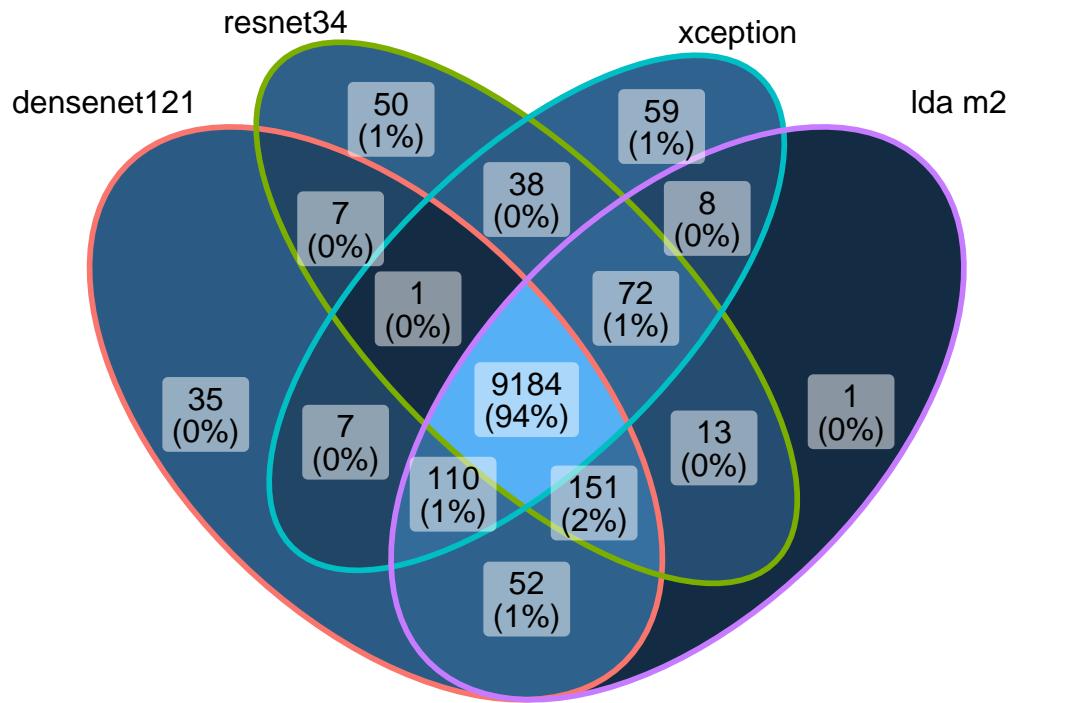
tt – replication 30



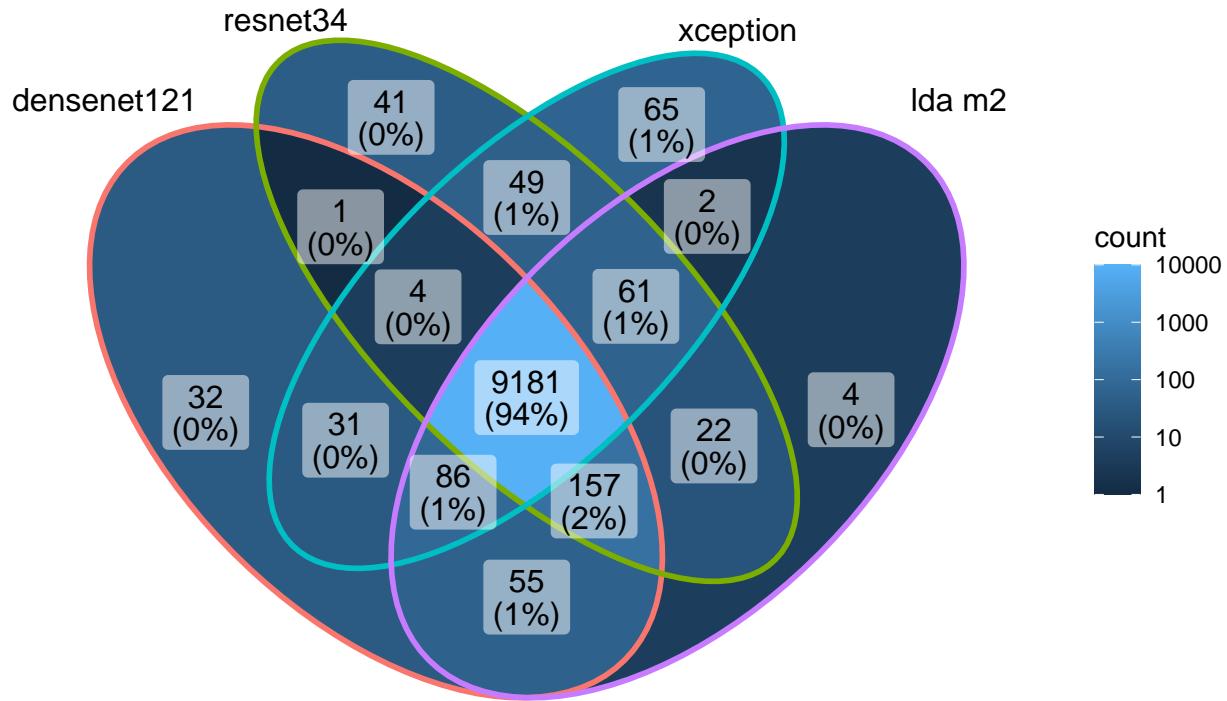
vt – replication 30



tt – replication 30

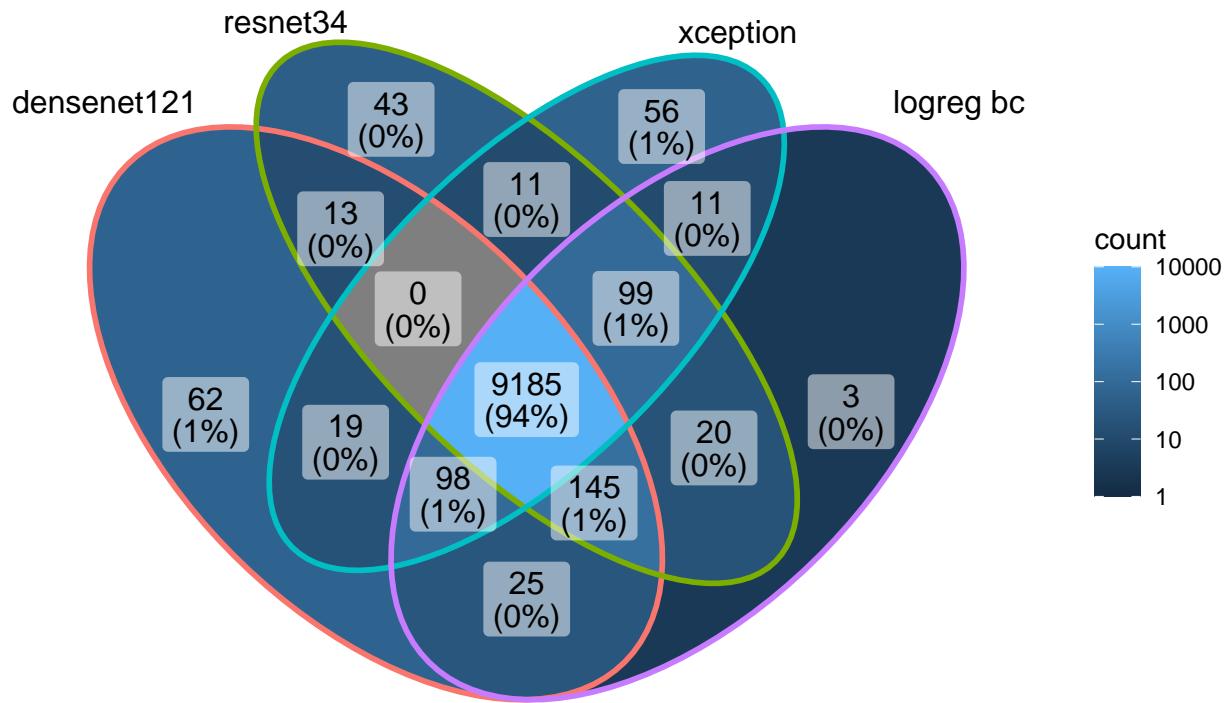


vt – replication 30

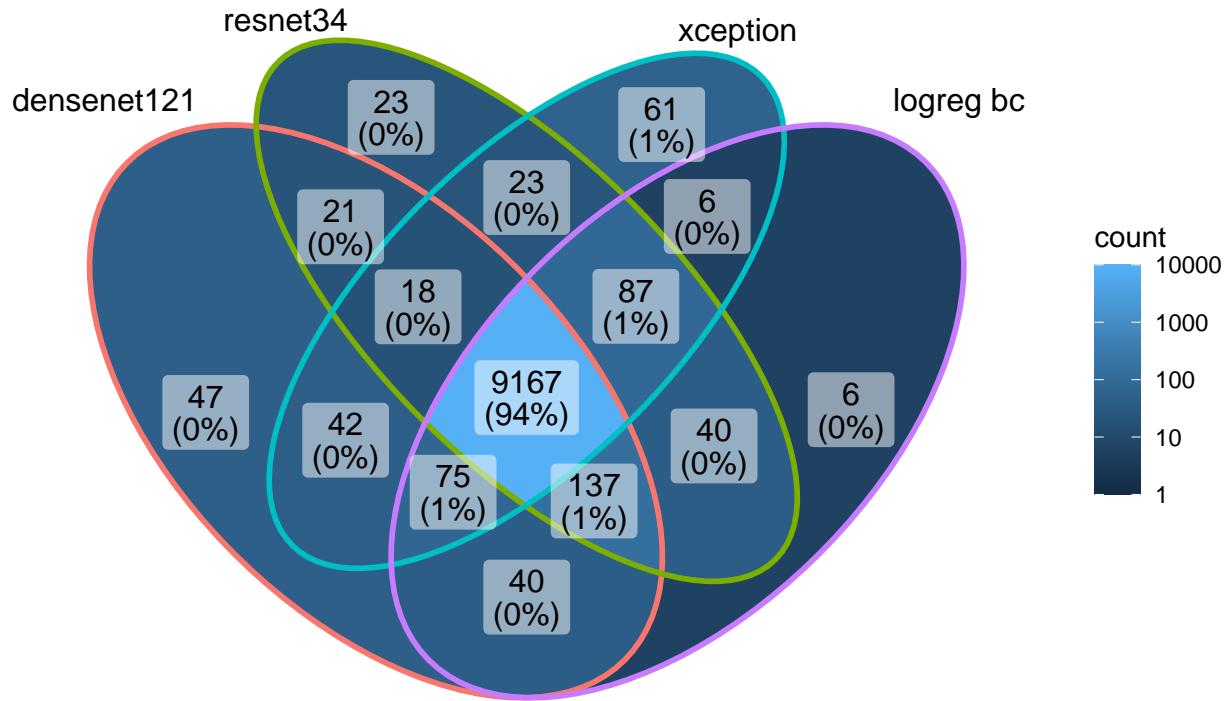


Warning: Transformation introduced infinite values in discrete y-axis

tt – replication 30

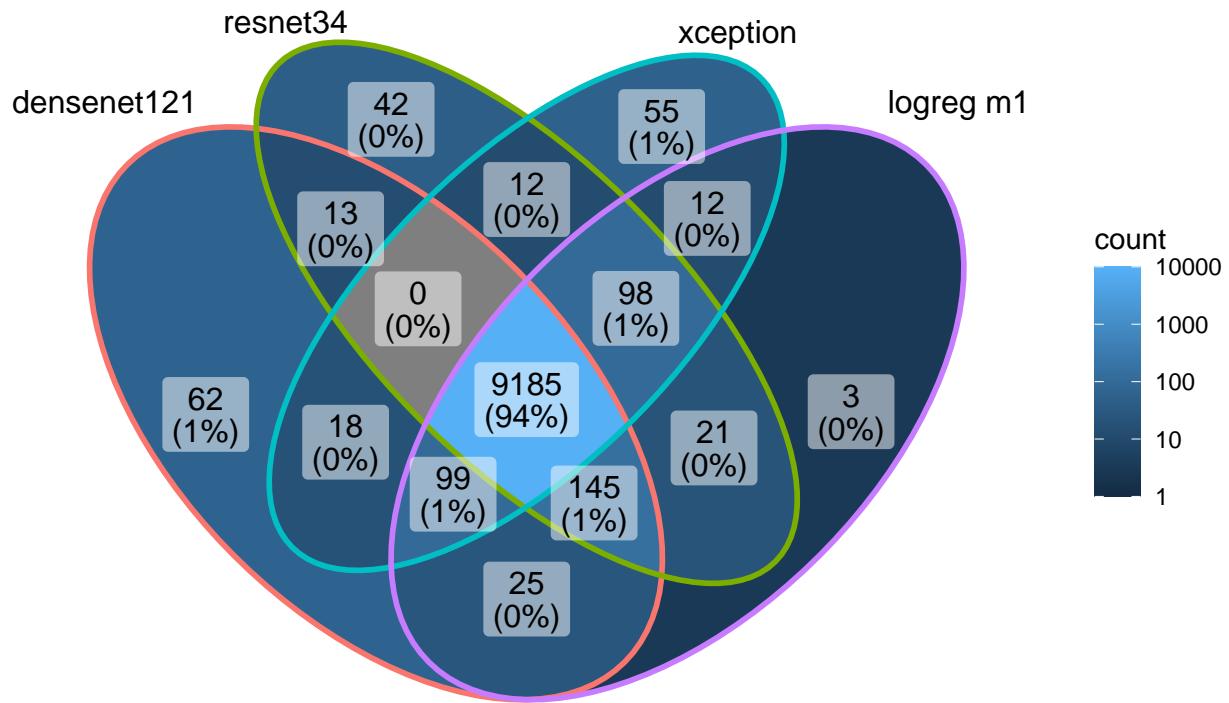


vt – replication 30

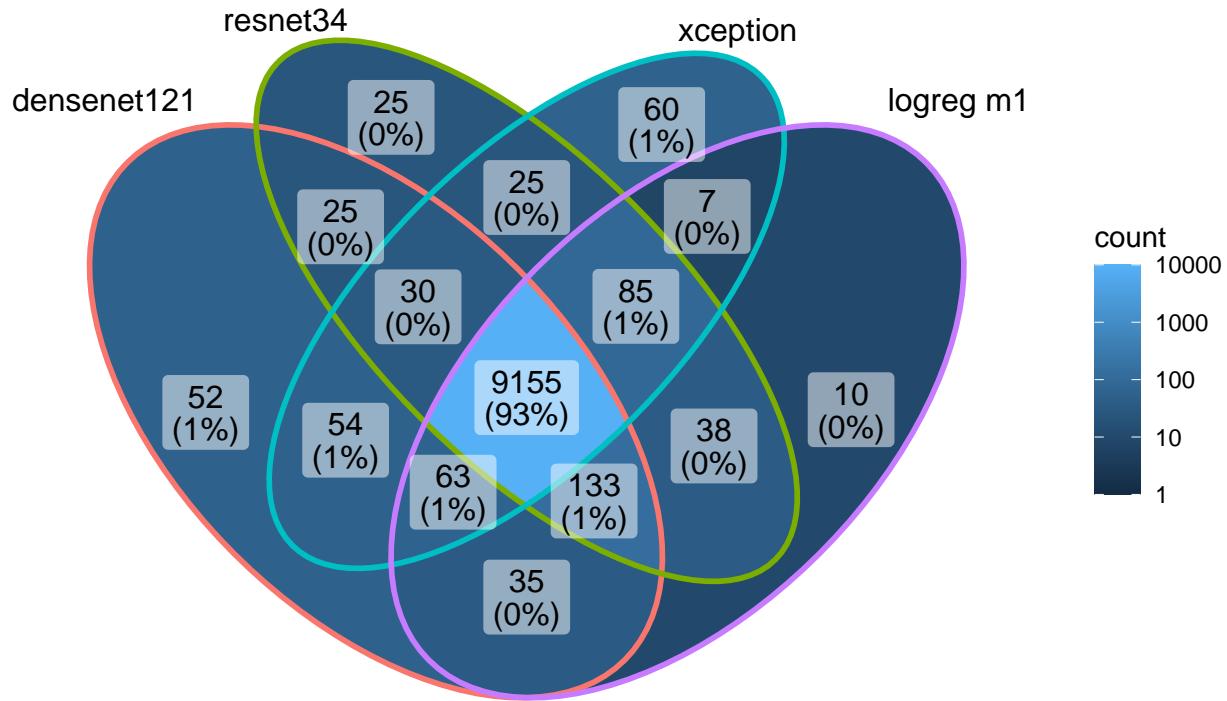


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tt – replication 30

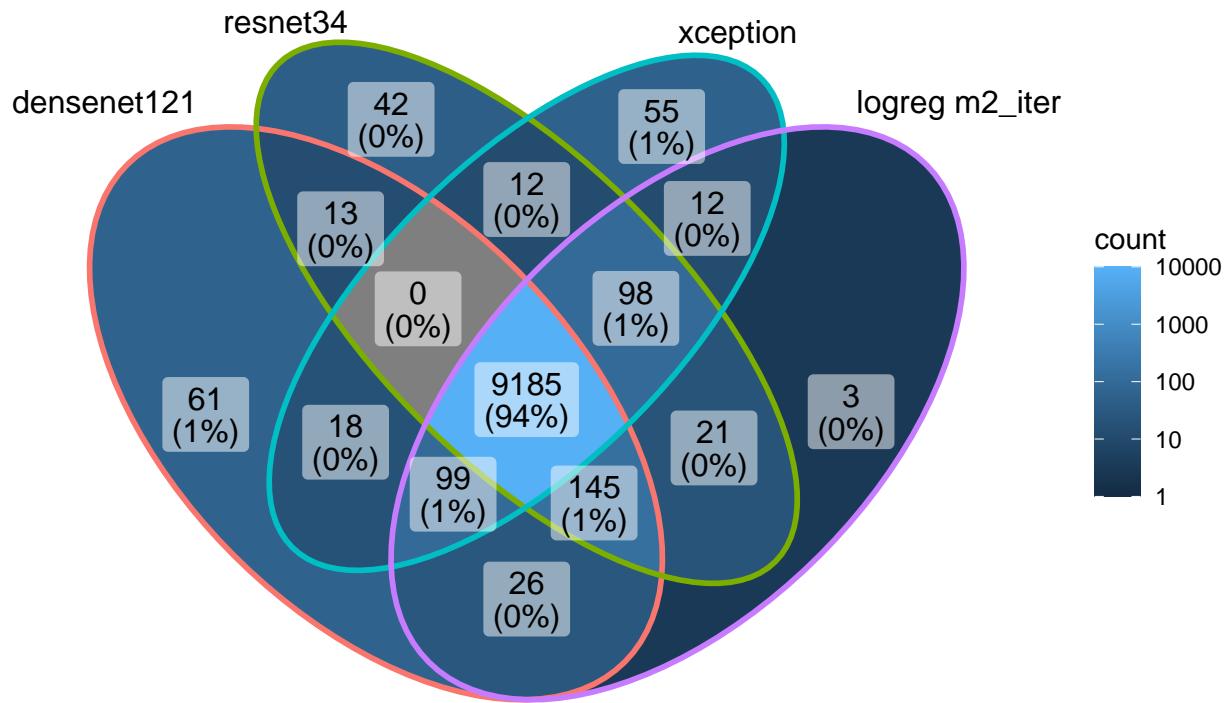


vt – replication 30

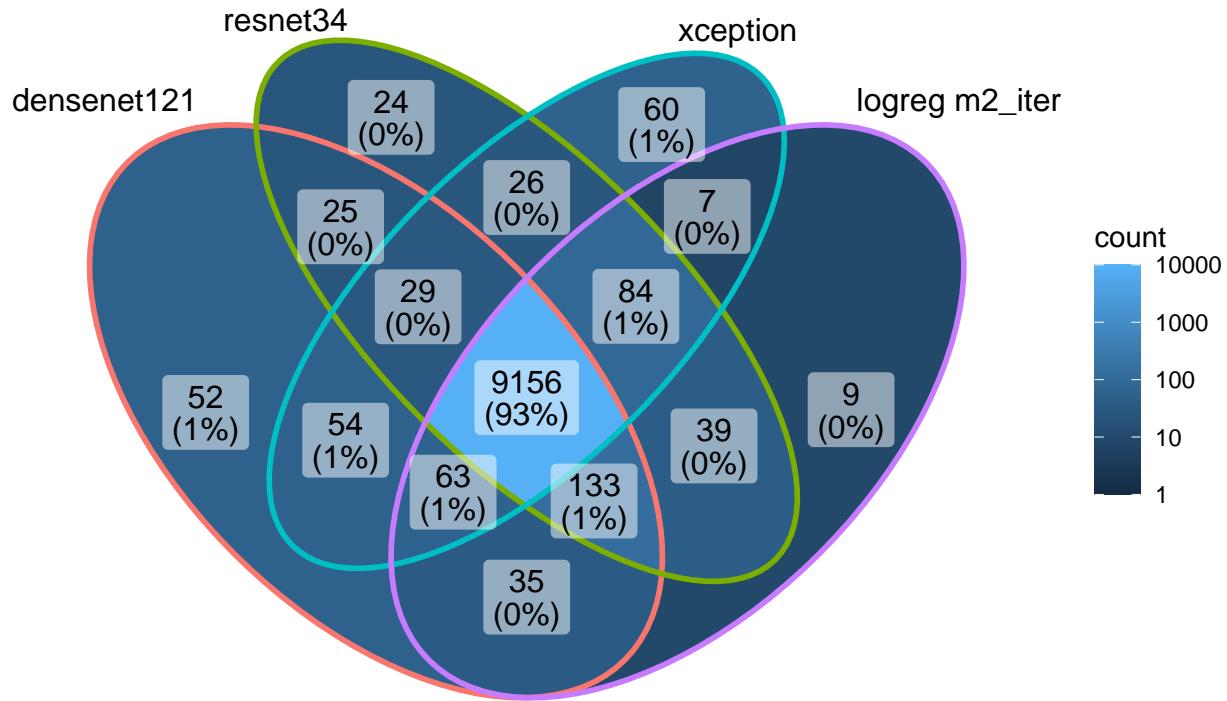


Warning: Transformation introduced infinite values in discrete y-axis

tt – replication 30

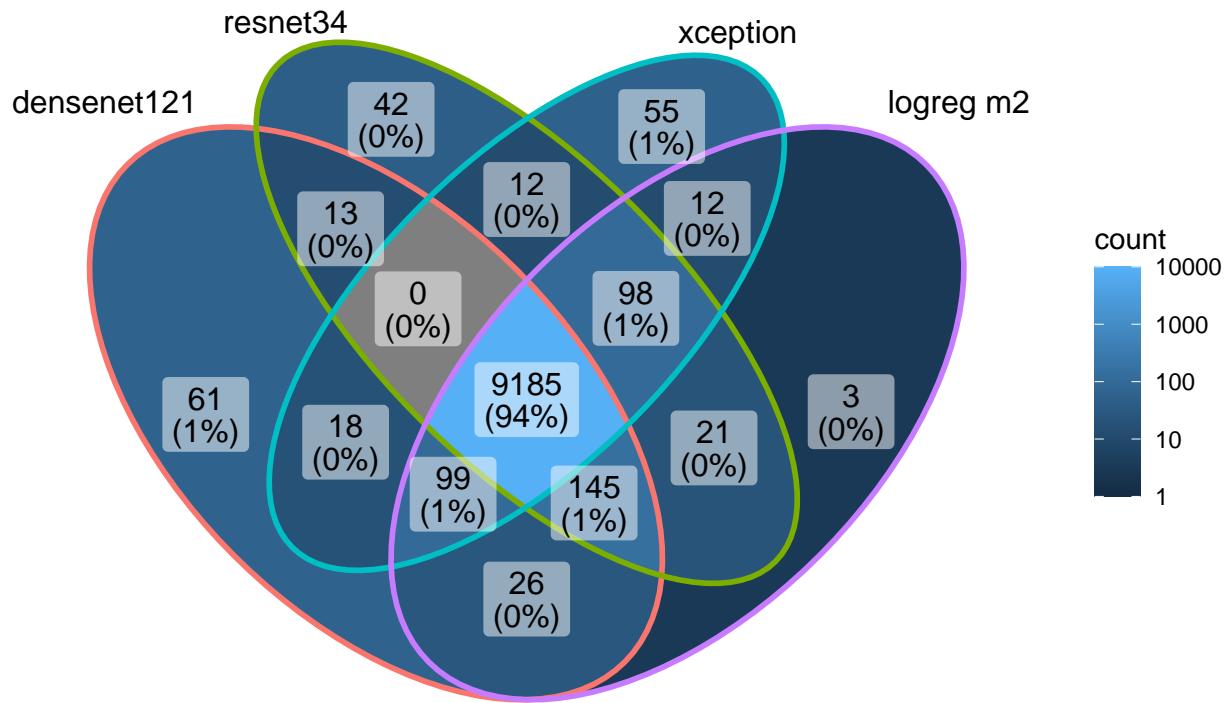


vt – replication 30

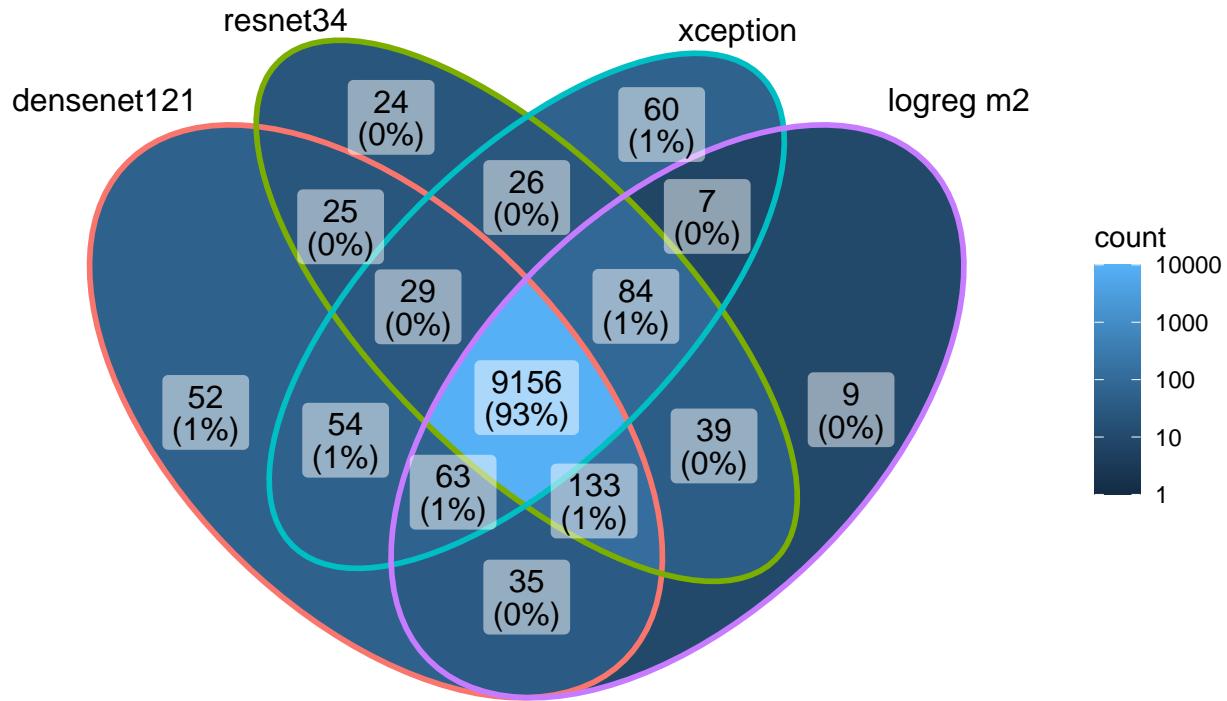


Warning: Transformation introduced infinite values in discrete y-axis

tt – replication 30

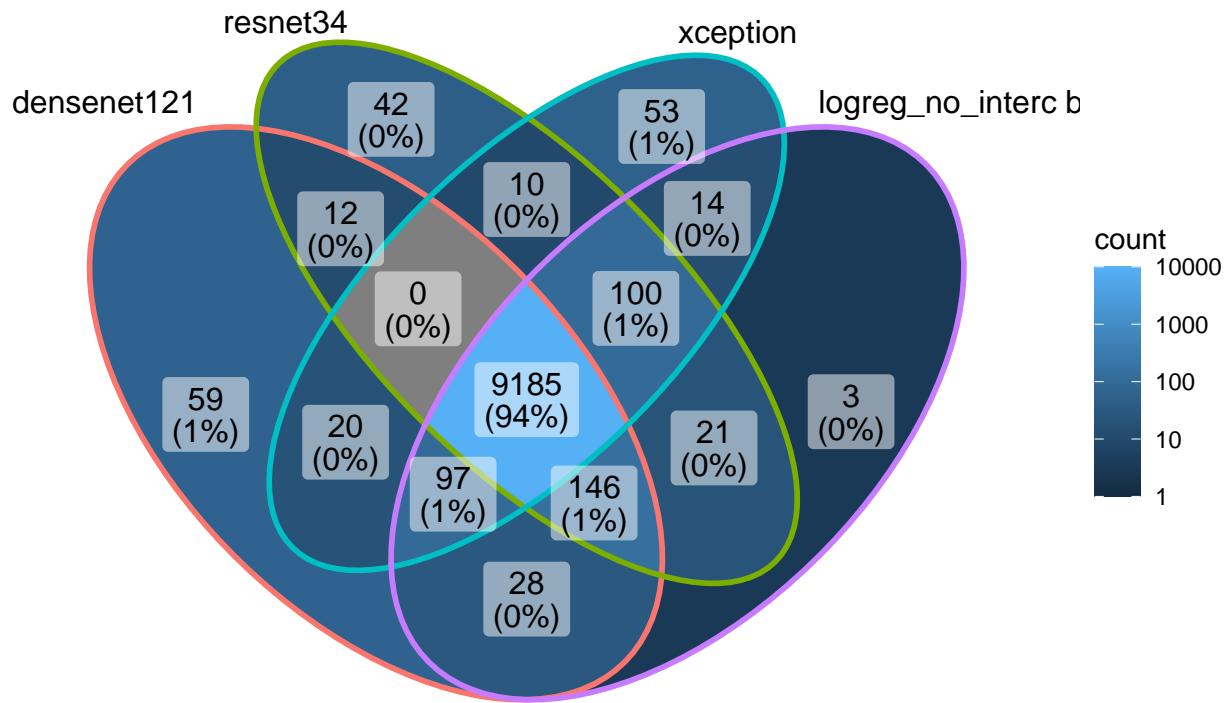


vt – replication 30

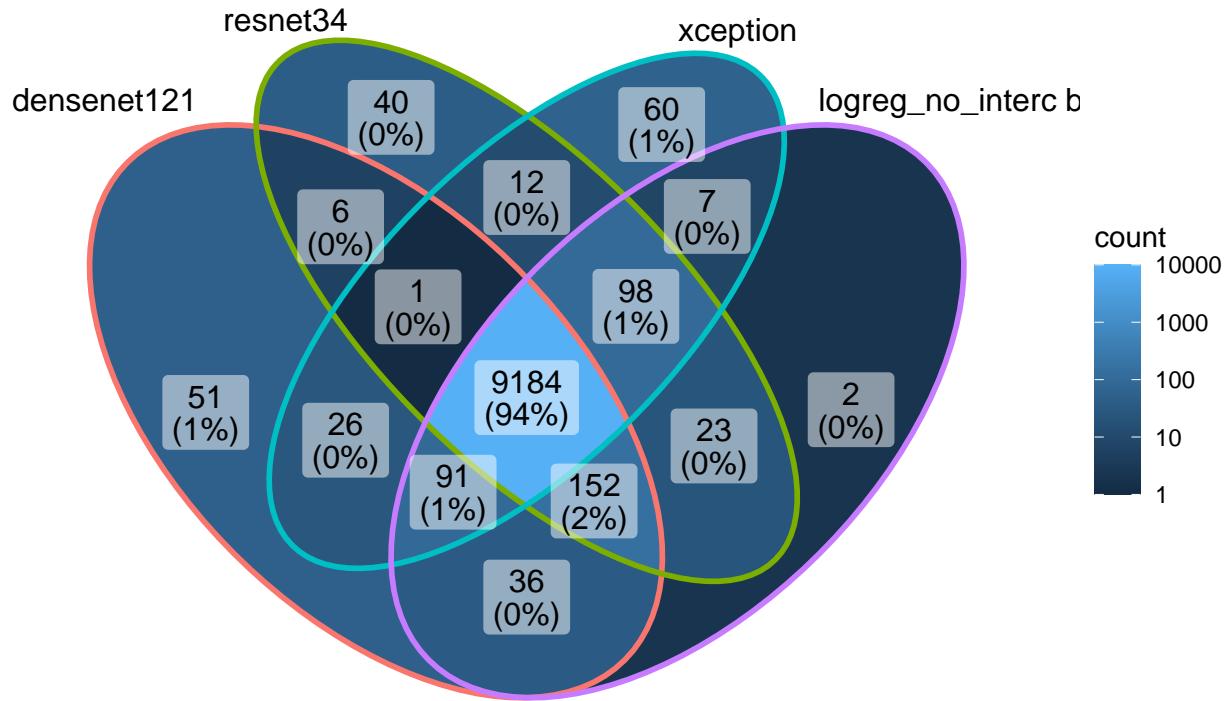


Warning: Transformation introduced infinite values in discrete y-axis

tt – replication 30

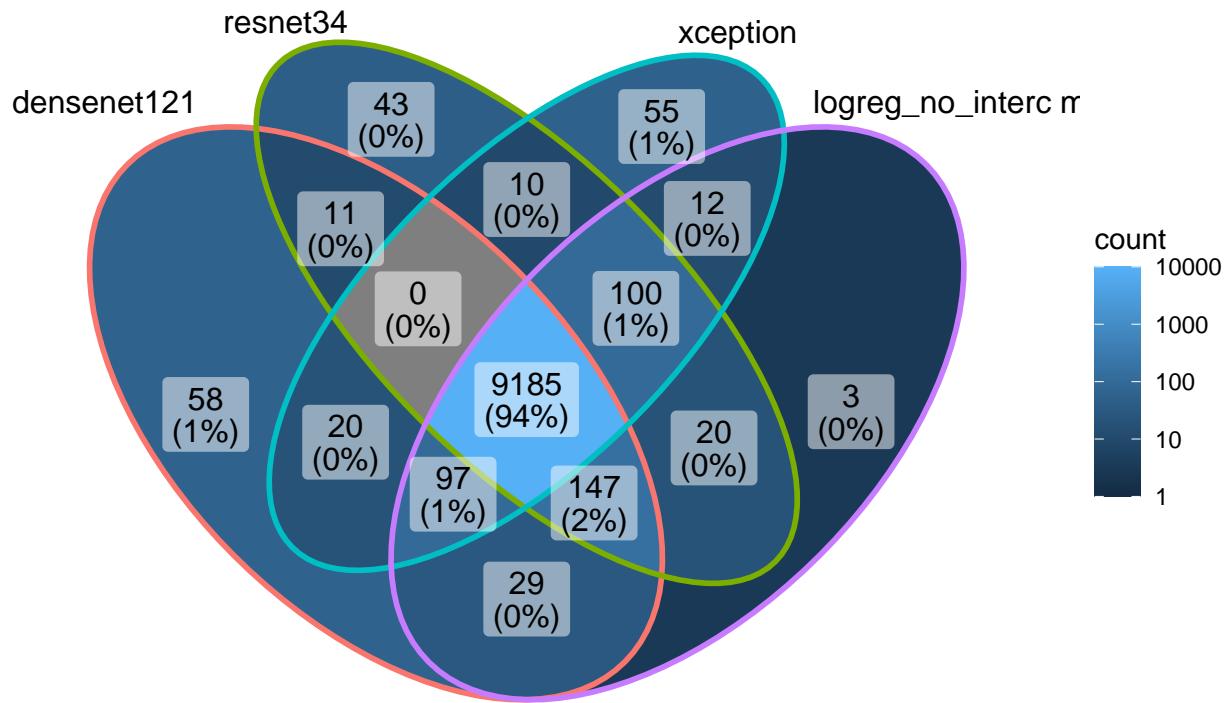


vt – replication 30

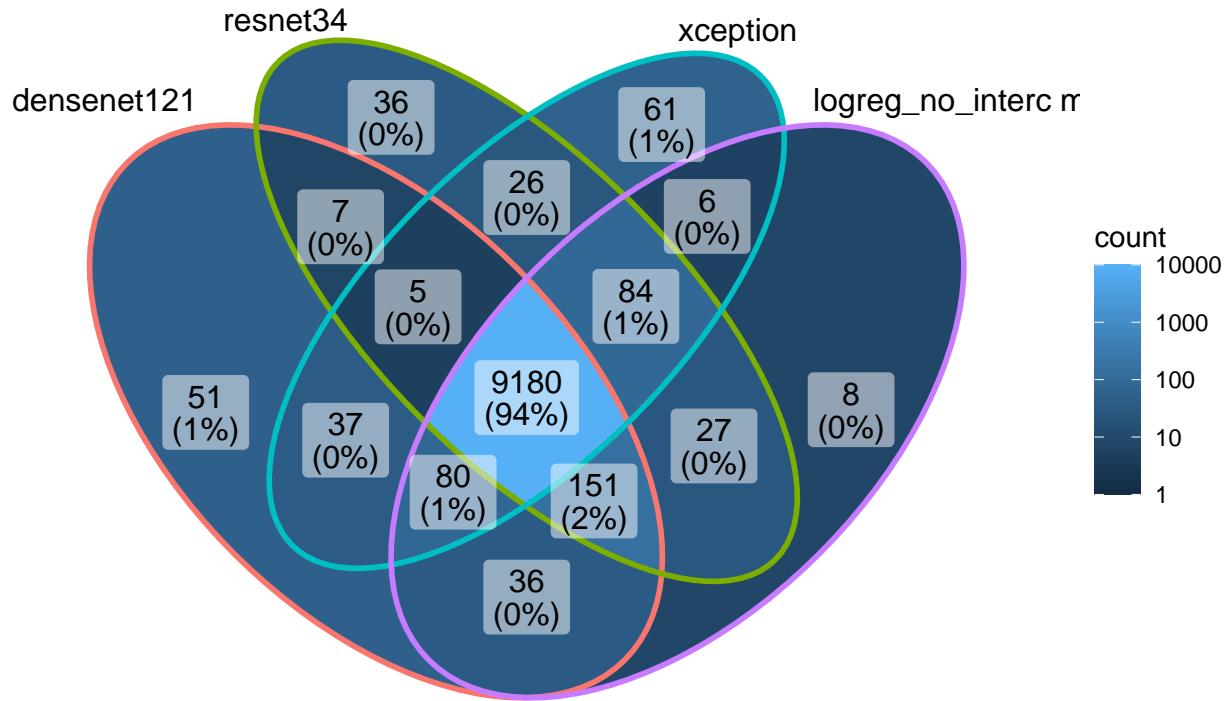


Warning: Transformation introduced infinite values in discrete y-axis

tt – replication 30

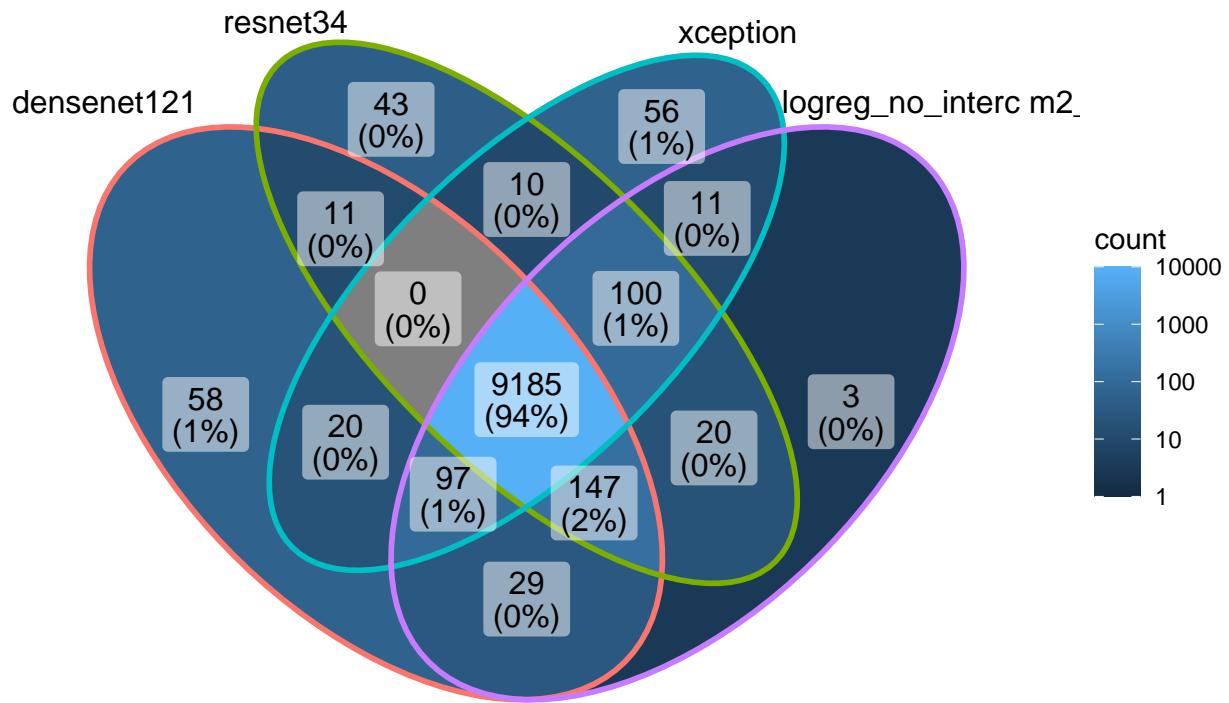


vt – replication 30

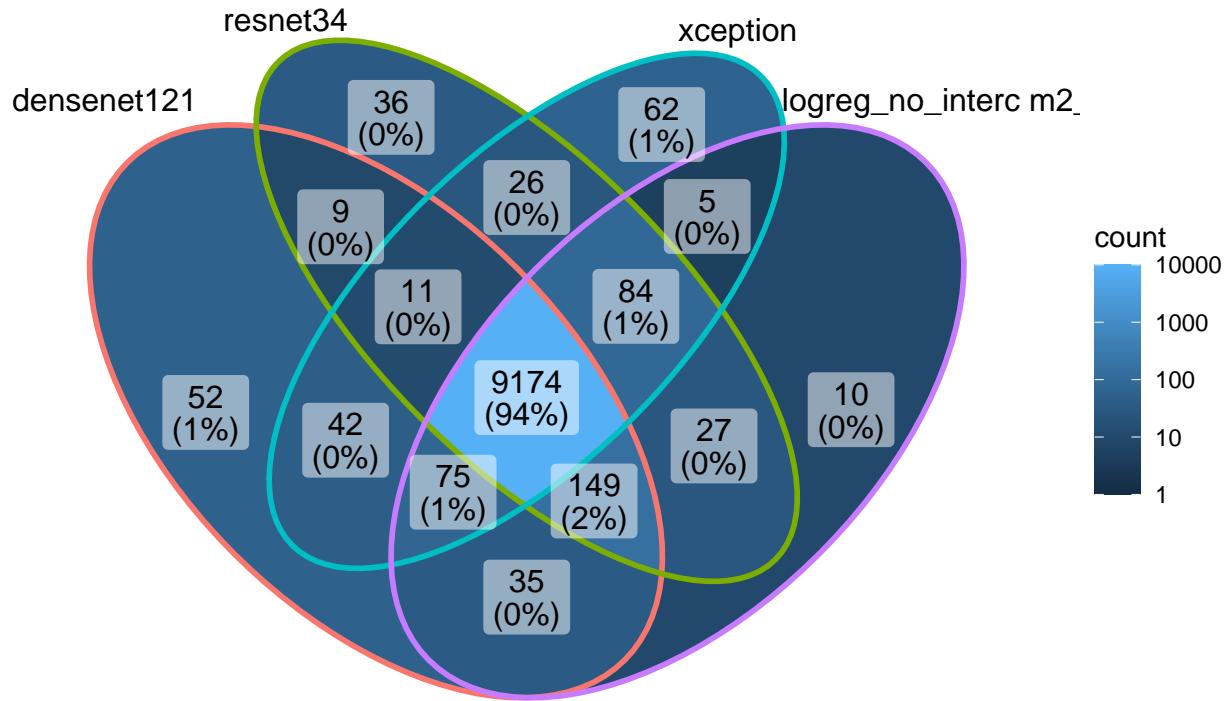


Warning: Transformation introduced infinite values in discrete y-axis

tt – replication 30

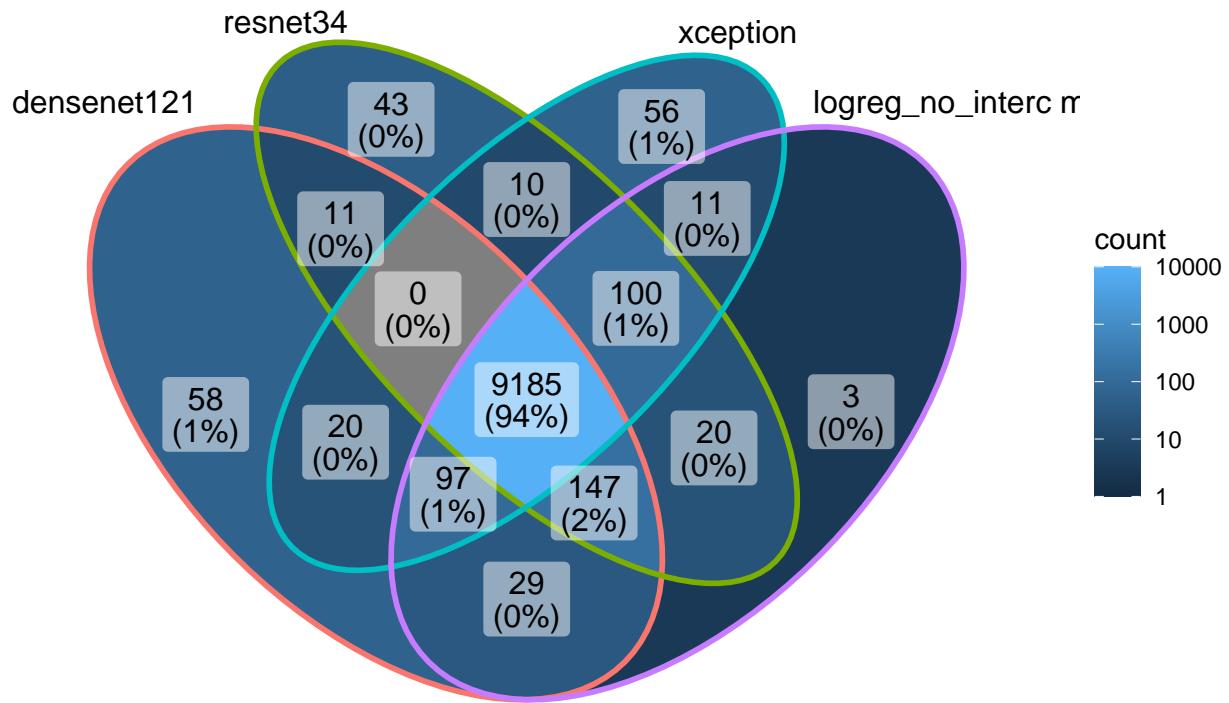


vt – replication 30

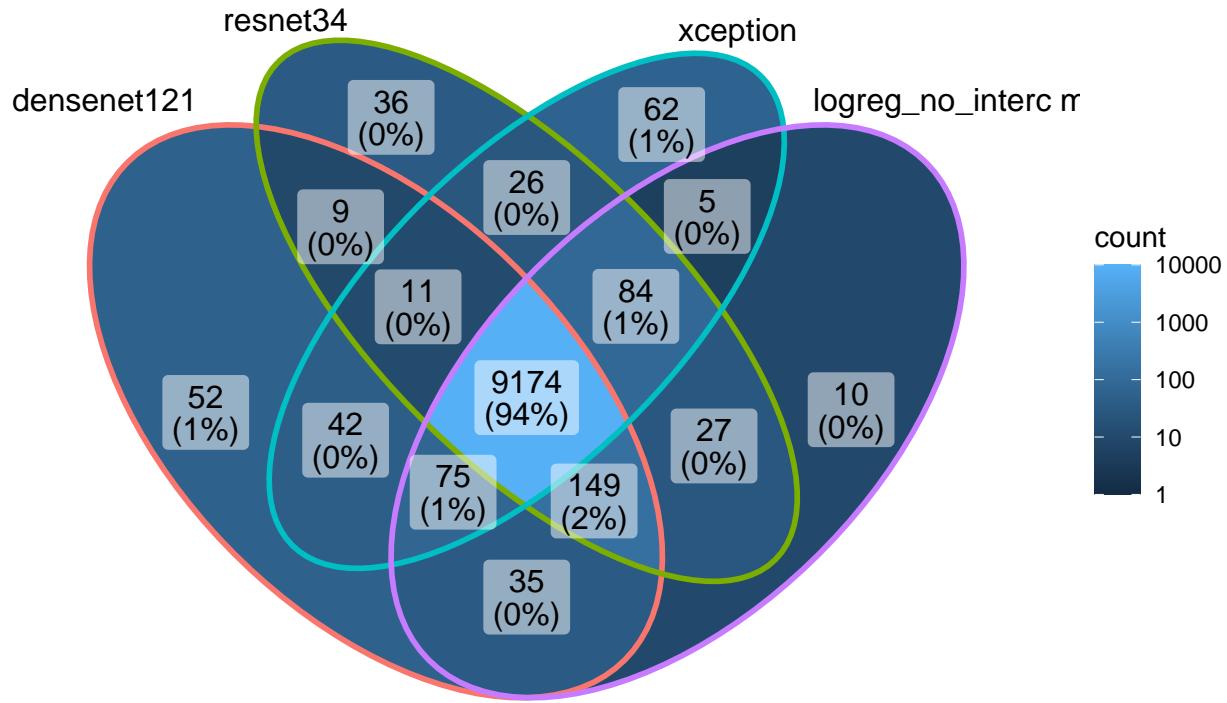


Warning: Transformation introduced infinite values in discrete y-axis

tt – replication 30



vt – replication 30



Ensemble in neither case managed to utilize all correct predictions shared amongs all pairs of networks.