

CT-Pop Cell Type Stacked Bar Graphs Notebook

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1 Environment

```

library(tidyr)
library(plyr)
library(dplyr)
library(magrittr)
library(ggplot2)
library(stringr)

options(scipen = 999)

knitr::opts_chunk$set(
  echo = FALSE,
  message = FALSE,
  warning = FALSE,
  fig.align='center',
  fig.pos='H',
  fig.path = "../output/",
  dev = c("pdf"),
  dpi=500
)

```

2 Load Data

3 Prepare data

```

## [1] "respiratory system"
## [2] "heart"
## [3] "skin of body"
## [4] "Set of lactiferous glands in right breast"
## [5] "right kidney"
## [6] "large intestine"
## [7] "small intestine"
## [8] "left kidney"
## [9] "urinary bladder"
## [10] "left ureter"
## [11] "spleen"
## [12] "male reproductive system"
## [13] "liver"

```

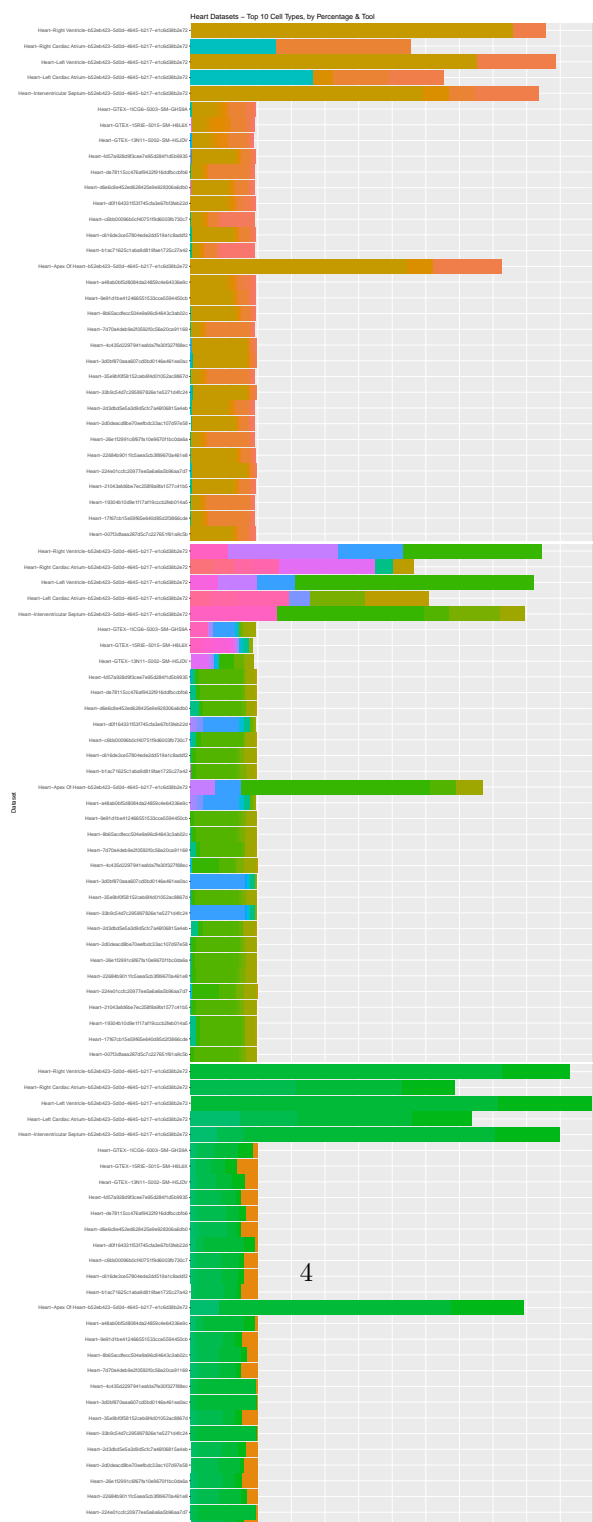

4 Creating labels for bar plots

5 Pivot table

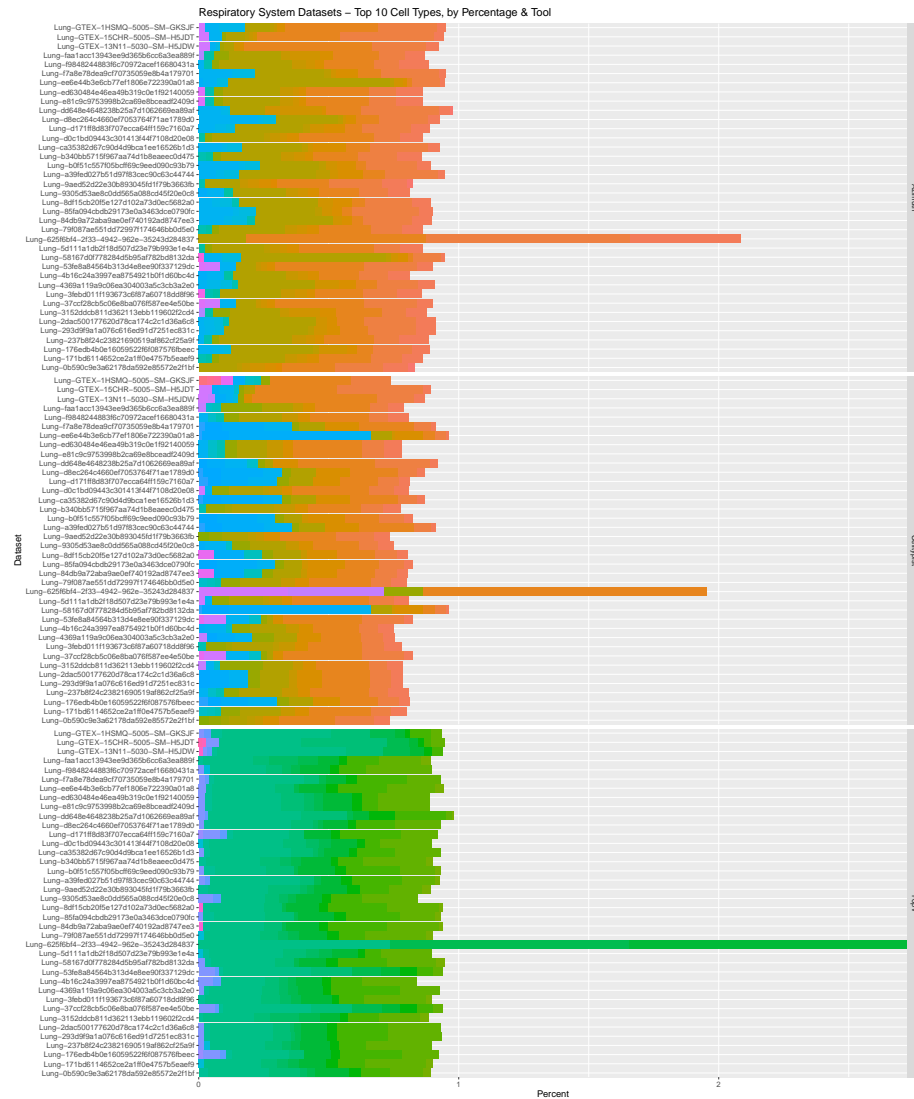
6 Ranking dataset cell types by organ and tool

7 Stacked Bar Graphs

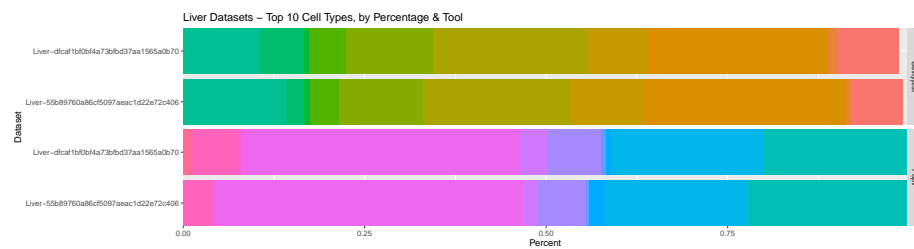
7.1 Heart Datasets



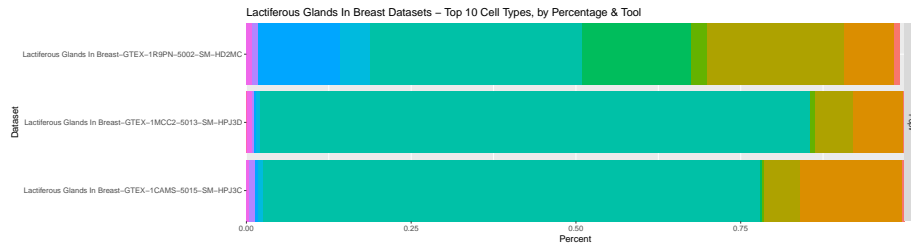
7.2 Respiratory System Datasets



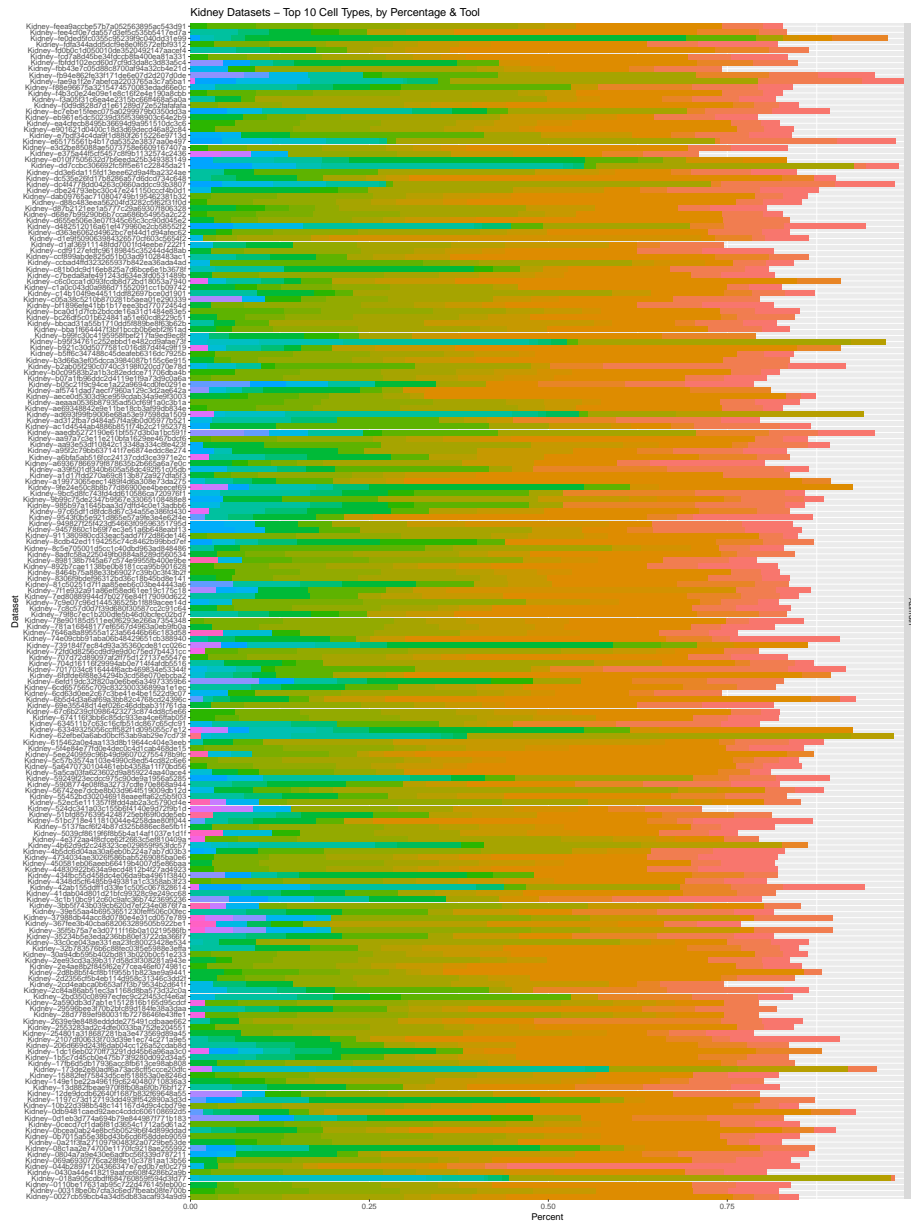
7.3 Liver Datasets



7.4 Lactiferous Glands In Breast Datasets



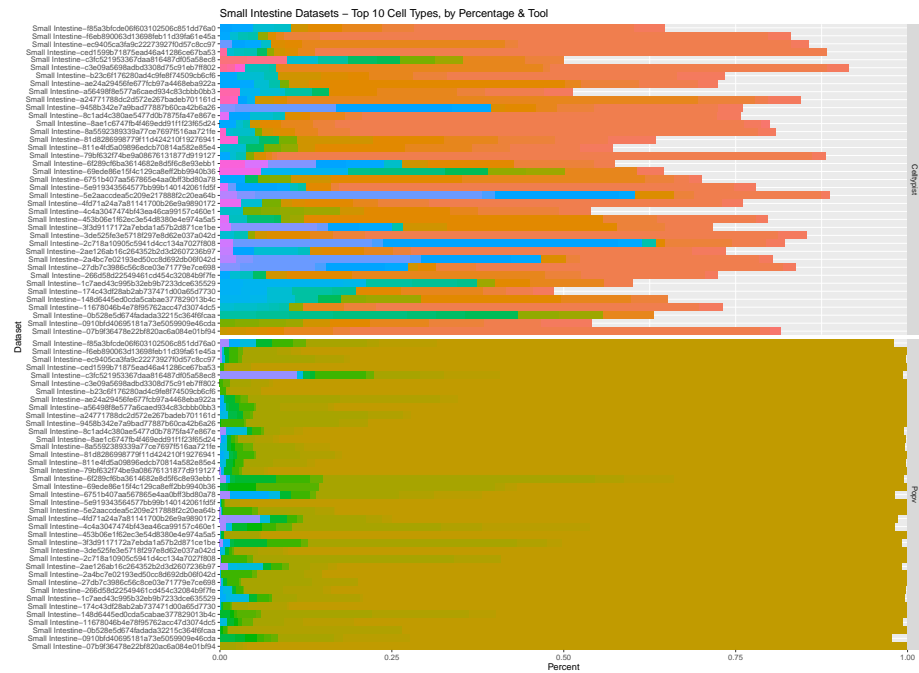
7.5 Kidney Datasets



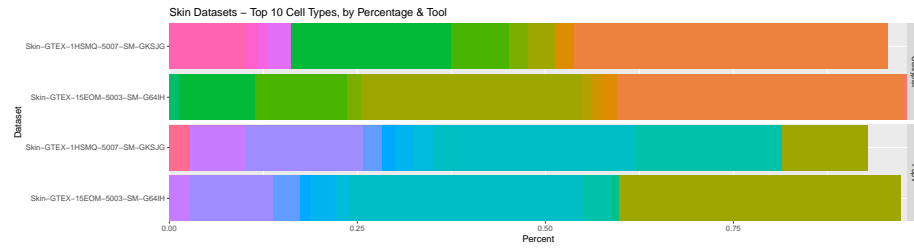
7.6 Large Intestine Datasets



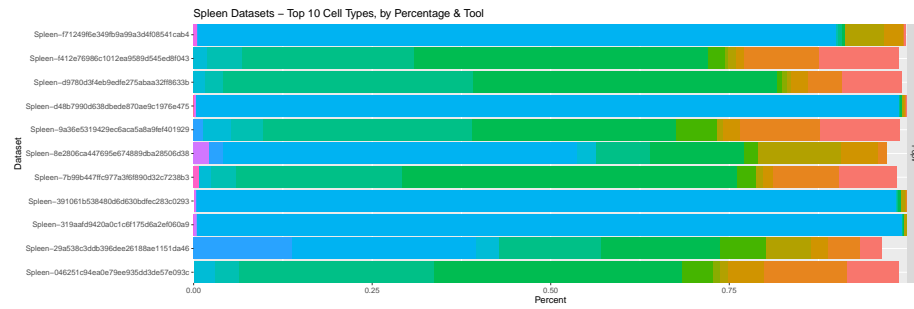
7.7 Small Intestine Datasets



7.8 Skin Datasets



7.9 Spleen Datasets



7.10 Ureter Datasets

