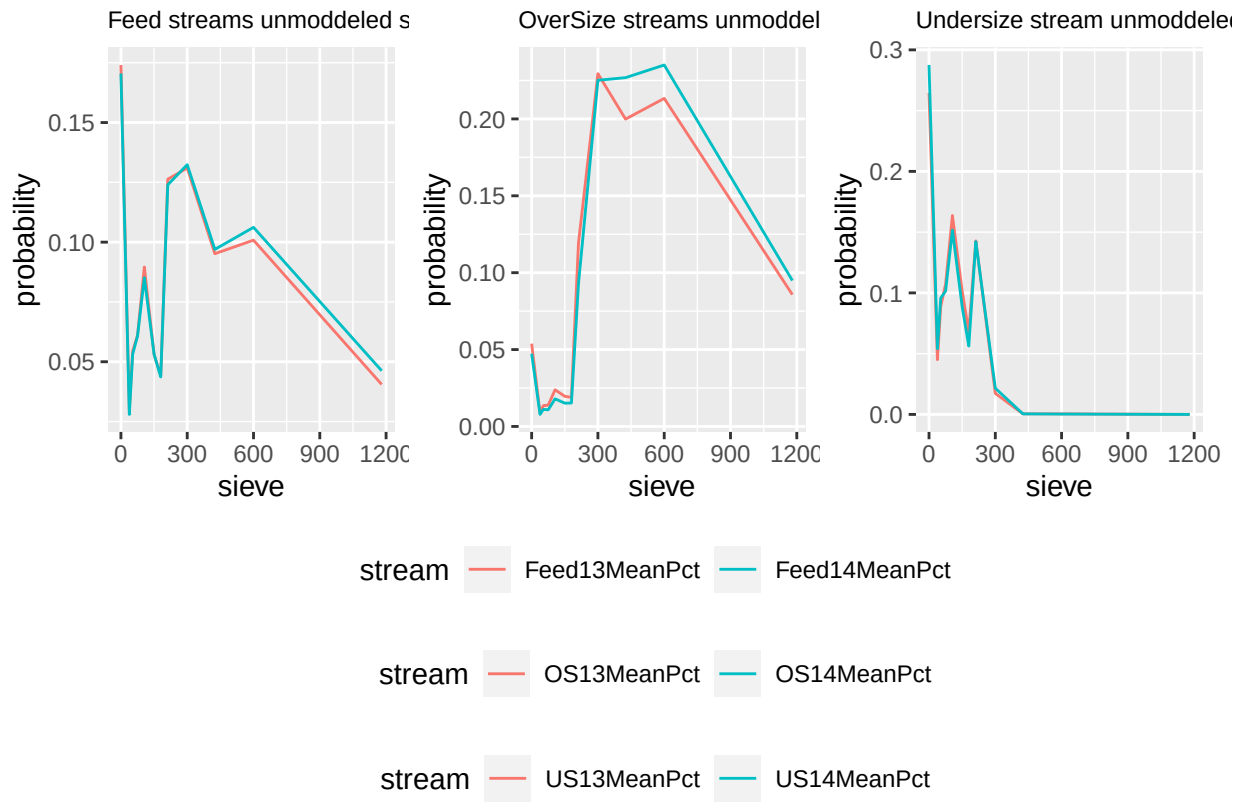
side by side plots

Aim is not to reprint plot's axes for each plotted side-by-side plot as they are the same..can be a common axis/axes.

https://stackoverflow.com/questions/13649473/add-a-common-legend-for-combined-ggplots ## method 1

Each test's feed stream PSD results were first compared to confirm that their distributions were simmilar to allow for comparitive statictics.

```
# package name: patchwork (side by side plots)
combined.plot_raw_psd <- plot.Feedraw_psd + plot.OSraw_psd + plot.USraw_psd & theme(legend.position = "
combined.plot_raw_psd + plot_layout(guides = "collect")
```



Method 2

Each test's feed stream PSD results were first compared to confirm that their distributions were simmilar to allow for comparitive statictics.

difference in code starts here:

```
#combine the datasets:
PSD_raw_psd_allStreams <- rbind(long_feedraw_psd,long_OSraw_psd,long_USraw_psd)

PSD_raw_psd_allStreams <- data.frame(PSD_raw_psd_allStreams,
                             Df = rep(c("Feed (unmodeled)","OS (unmod.)","US (unmod.)" ),
                                                  times=c(nrow(long_feedraw_psd),nrow(long_OSraw_ps

outplot_all_unmoddled <- ggplot(PSD_raw_psd_allStreams, aes(sieve, probability, colour = stream)) +
  geom_line() +
  geom_point() +
  ggtitle("Feed streams unmoddeled solids frequency distribution.") +
  theme(plot.title = element_text(size=9)) +
  facet_wrap(~Df)


ggsave(here("05_fig_output","all_streams_preModelling.pdf"), outplot_all_unmoddled, width=10, height=8)
```

method 2 is perfect for this application:

- x and y same for all plots
- can combine with row bing. . . in this case no problem..with cbind will be a proble where different models(RR and GGS) have diffrenrows due to logs.

Method 3

try to combine 3 PSD with 3 cummulative PSDs

```
#combine the datasets for plotting side-by-side:

PSD_raw_psd_allStreams <- rbind(long_feedraw_psd,long_OSraw_psd,long_USraw_psd)

#PSD_cum_raw_psd_allStreams <- cumsum(PSD_raw_psd_allStreams)

PSD_raw_psd_allStreams <- data.frame(PSD_raw_psd_allStreams,
                             Df = rep(c("Feed (unmodeled)","OS (unmod.)","US (unmod.)" ),
                                                  times=c(nrow(long_feedraw_psd),nrow(long_OSraw_ps

(outplot_all_unmoddled <- ggplot(PSD_raw_psd_allStreams, aes(sieve, cumsum(probability), colour = strea
  geom_line(size = 1) +
  geom_point() +
  ggtitle("Unmoddeled solids frequency distribution.") +
  theme(plot.title = element_text(size=10)) +
  facet_wrap(~Df))
```

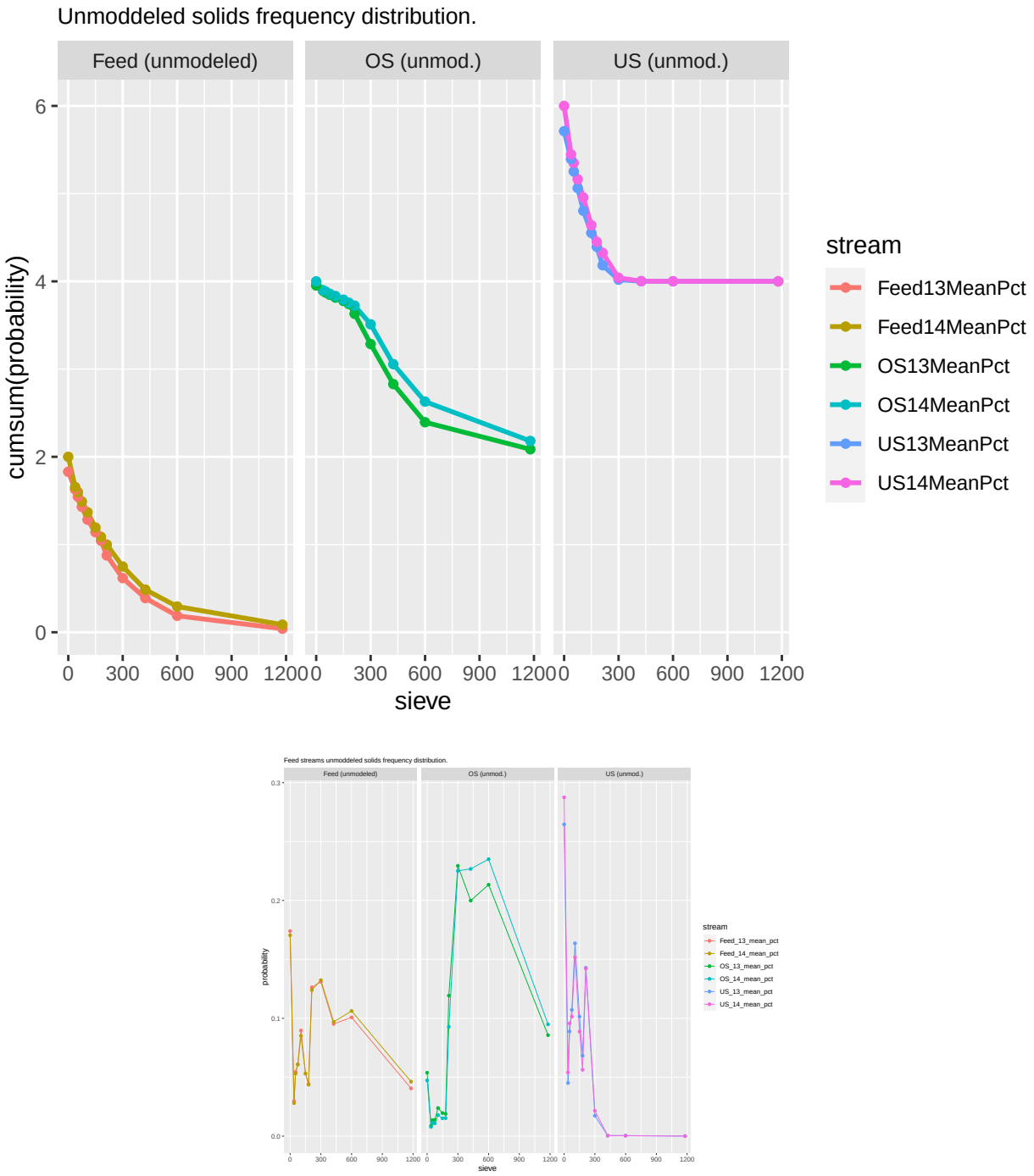


Figure 1: ...

Get the SVG-based logo for the R Project from an image URL.

```
r_svg_url <- "https://www.r-project.org/logo/Rlogo.svg"
r_svg_url
```

```
## [1] "https://www.r-project.org/logo/Rlogo.svg"
```

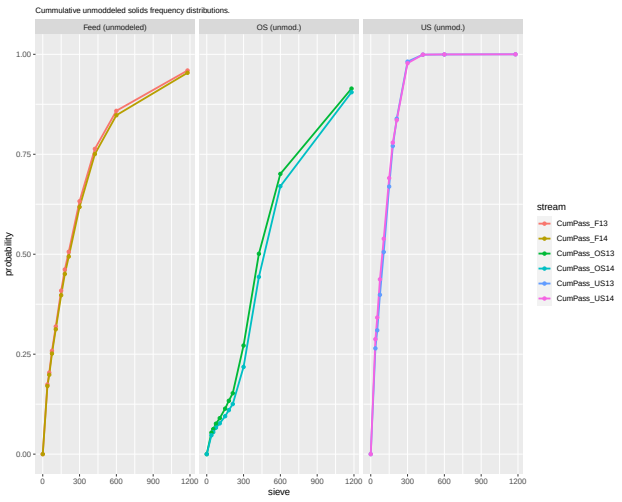

Cummulative unmoddeled solids frequency distributions.
Feed (unmodeled)
OS (unmod.)
US (unmod.)
probability
1.00
0.75
0.50
0.25
0.00
0
300
600
900
1200
sieve
stream
CumPass_F13
CumPass_F14
CumPass_OS13
CumPass_OS14
CumPass_US13
CumPass_US14

Figure 2: ...

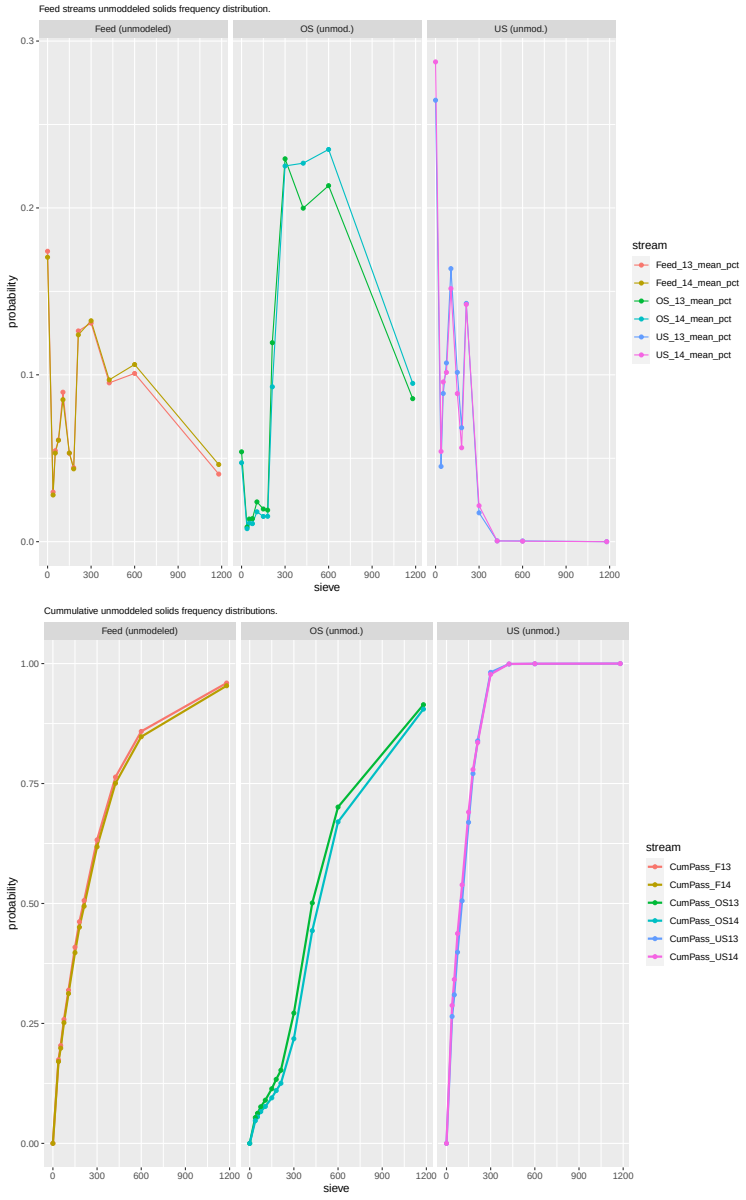


Figure 3: Caption set from chunk options