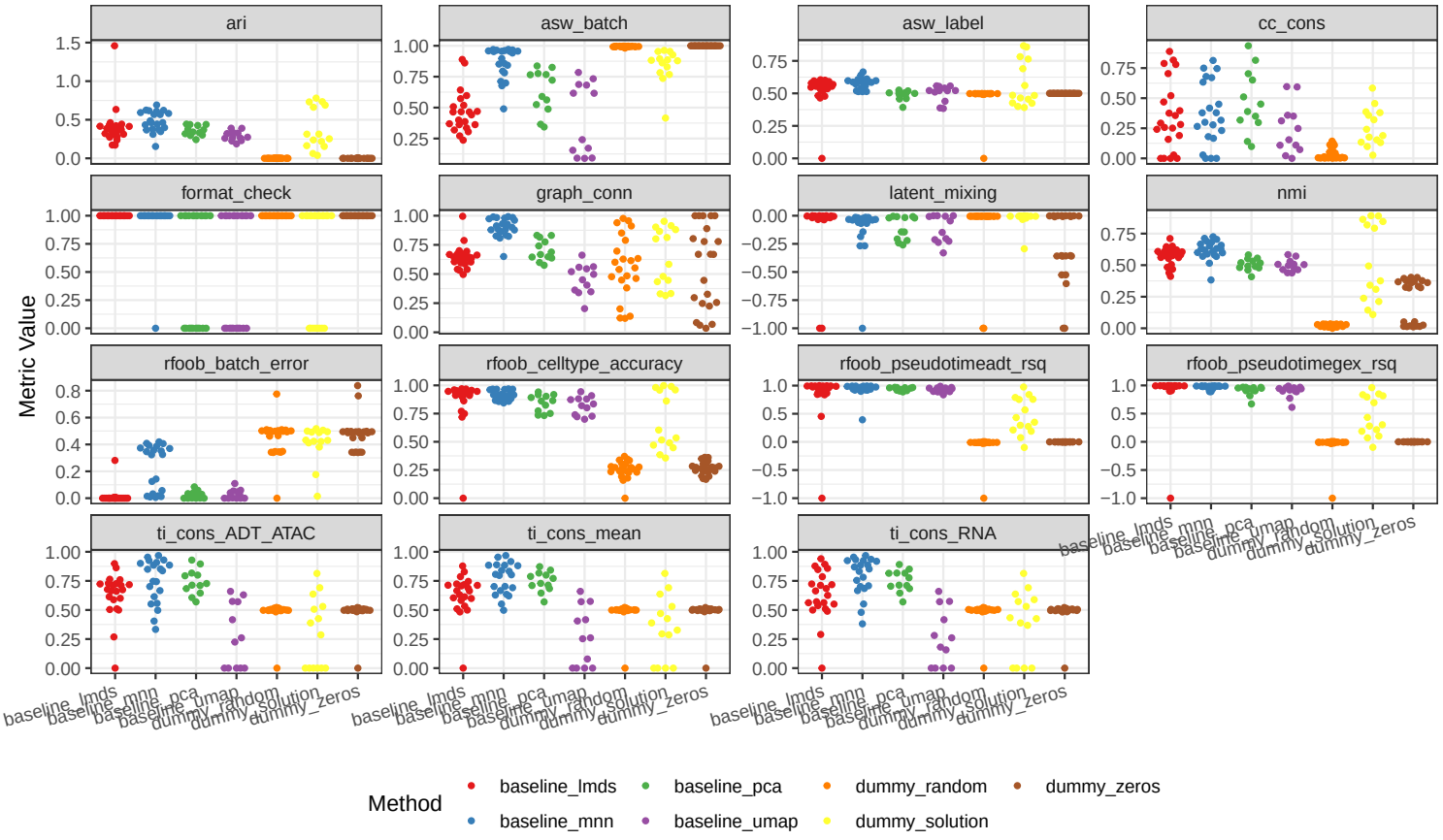
Joint Embedding - Pilot Analysis

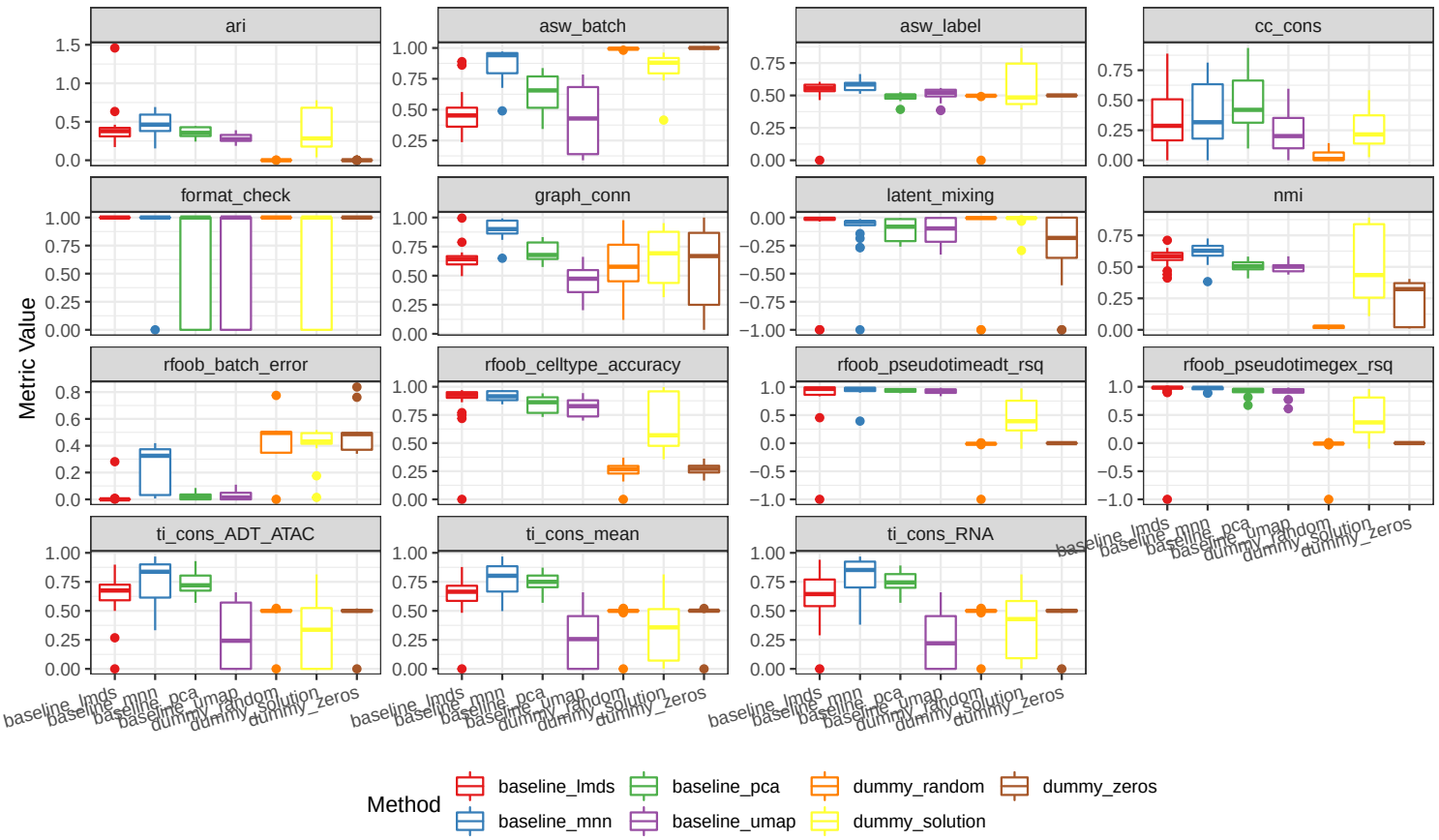
Visualise results

Colour by method.

```
## Warning: Removed 22 rows containing missing values (position_quasirandom).
```

```
## Warning: Removed 22 rows containing non-finite values (stat_boxplot).
```

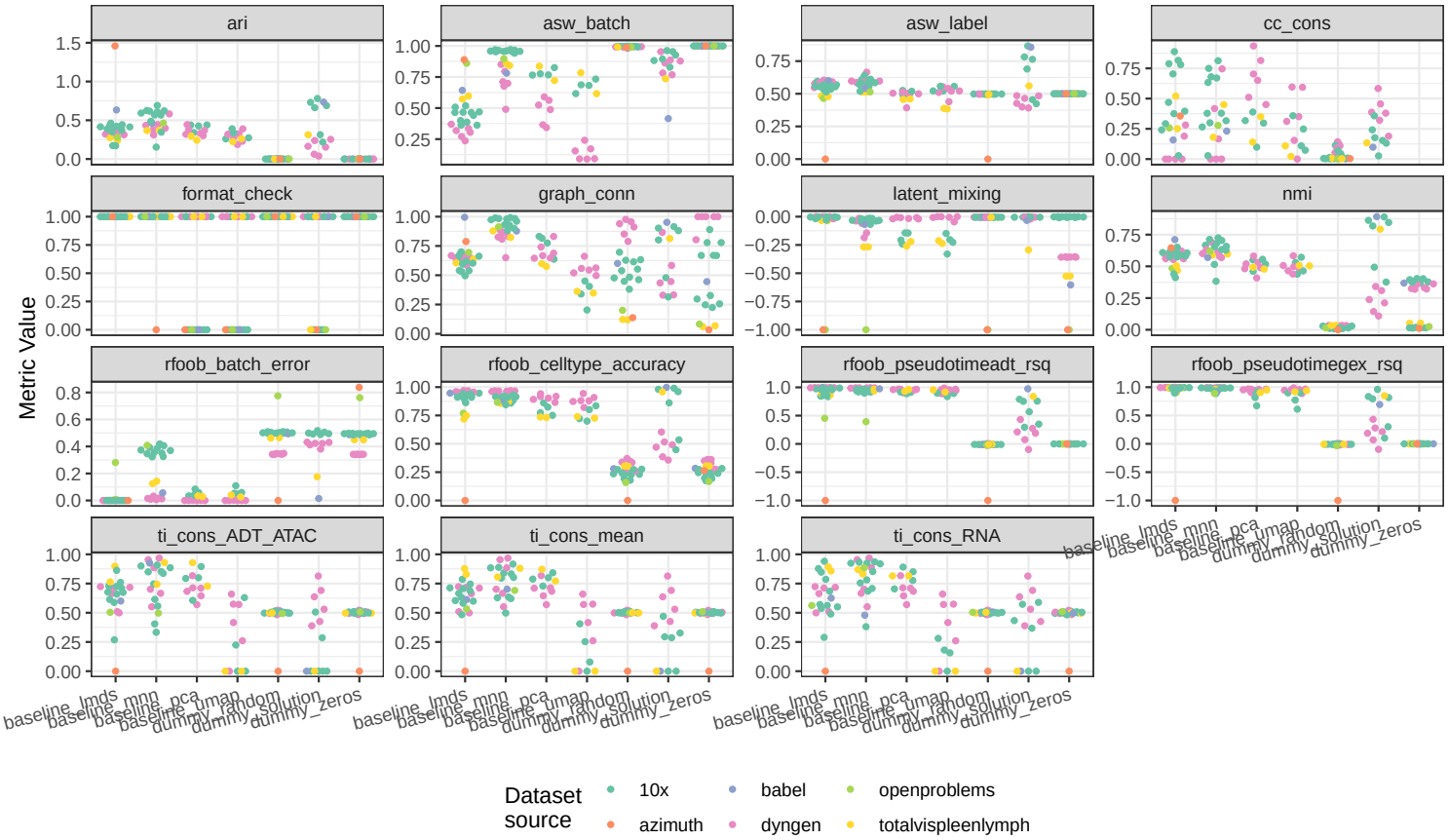


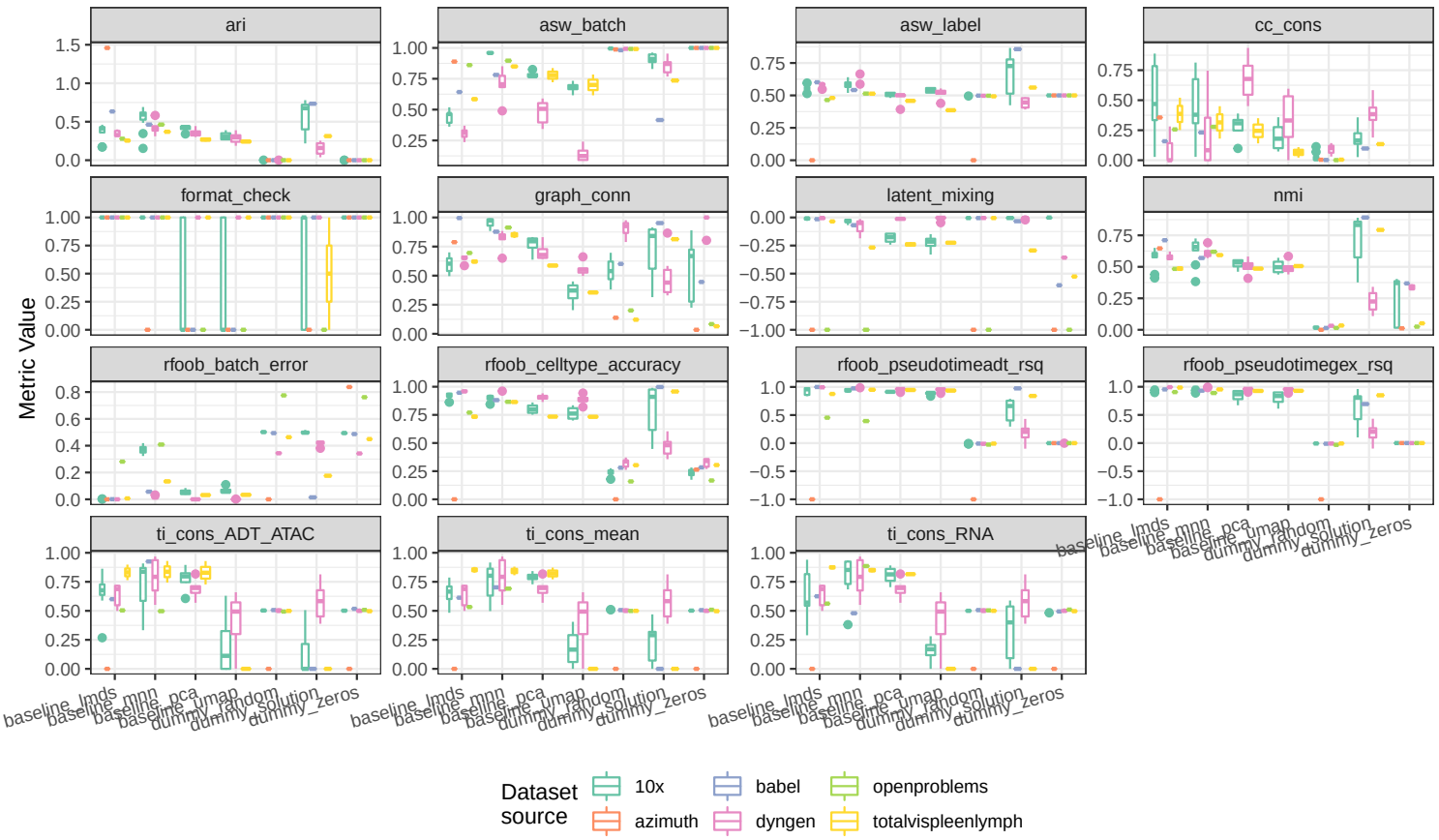


Colour by dataset source.

```
## Warning: Removed 22 rows containing missing values (position_quasirandom).
```

```
## Warning: Removed 22 rows containing non-finite values (stat_boxplot).
```





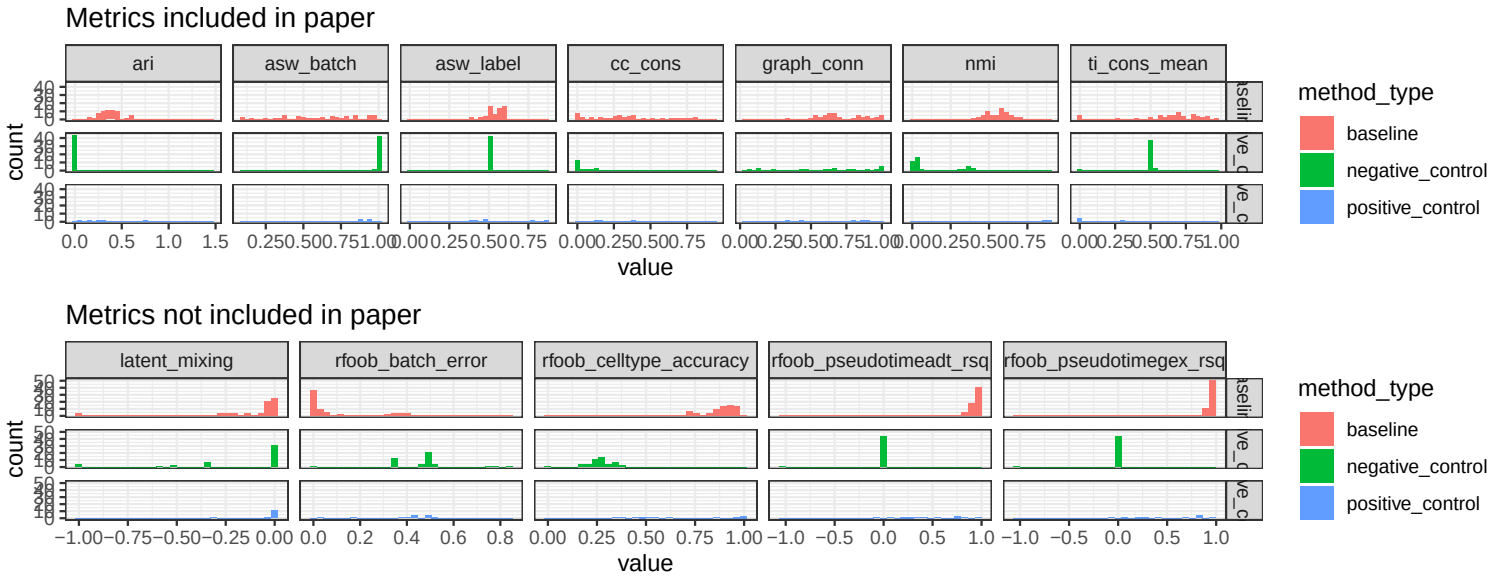
Comparing most interesting metrics.

```
# unique(dfg$metric_id)
patchwork::wrap_plots(
  ggplot(dfg %>% filter(metric_id %in% c("ari", "nmi", "asw_label", "ti_cons_mean", "cc_cons", "asw_batch", "gra
    geom_histogram(aes(value, fill = method_type)) +
    facet_grid(method_type~metric_id, scales = "free_x") +
    labs(title = "Metrics included in paper") +
    theme_bw(),
  ggplot(dfg %>% filter(!metric_id %in% c("format_check", "ari", "nmi", "asw_label", "ti_cons_mean", "cc_cons",
    geom_histogram(aes(value, fill = method_type)) +
    facet_grid(method_type~metric_id, scales = "free_x") +
    labs(title = "Metrics not included in paper") +
    theme_bw(),
  ncol = 1
)
```

```
## `stat_bin()` using `bins = 30`. Pick better value with `binwidth`.
```

```
## Warning: Removed 22 rows containing non-finite values (stat_bin).
```

```
## `stat_bin()` using `bins = 30`. Pick better value with `binwidth`.
```




```
ggplot(dfg %>% filter(metric_id <= "latent_mixing")) +
  geom_histogram(aes(value, fill = method_type)) +
  facet_grid(method_type~metric_id, scales = "free_x") +
  theme_bw()
```

```
## `stat_bin()` using `bins = 30`. Pick better value with `binwidth`.
```

```
## Warning: Removed 22 rows containing non-finite values (stat_bin).
```


```
ggplot(dfg %>% filter(metric_id > "latent_mixing")) +
  geom_histogram(aes(value, fill = method_type)) +
  facet_grid(method_type~metric_id, scales = "free_x") +
  theme_bw()
```

```
## `stat_bin()` using `bins = 30`. Pick better value with `binwidth`.
```