Pilot Analysis

Preprocess data

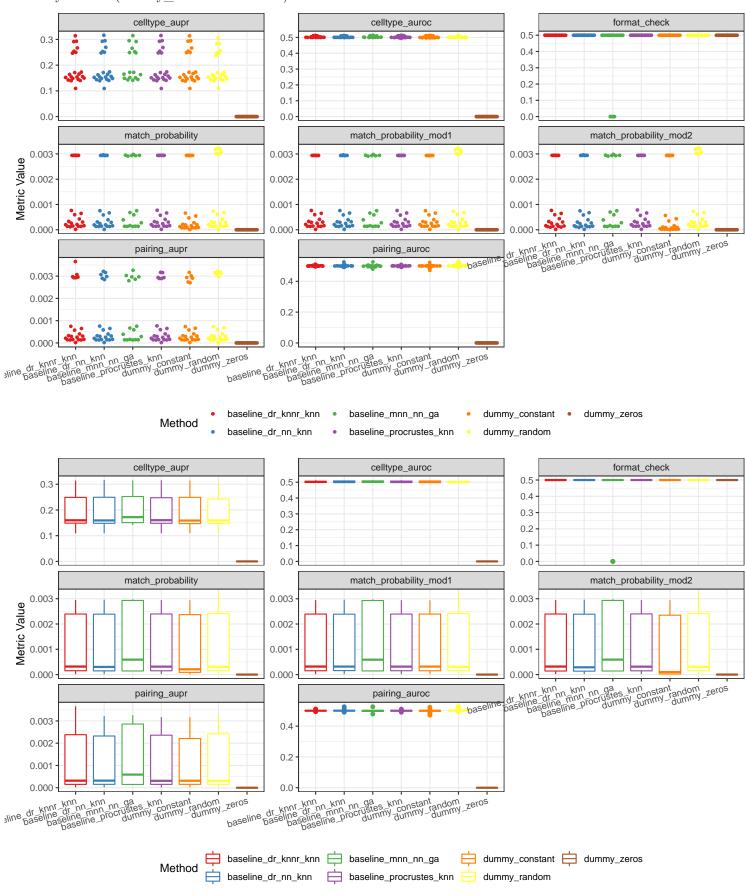
```
Read in the results data.
```

```
# TODO: read in the method and dataset meta information and perform joins.
df <-
     # read in all columns as strings because of infinite values in table
    readr::read_tsv(
         "output/pilot/match_modality/output.extract_scores.output.tsv",
          col_types = c(.default = "c")
     ) %>%
    mutate(
          # manually convert to floats afterwards
         value = as.numeric(value),
         # extract meta info
         dataset_loader = gsub("_.*", "", dataset_id),
         dataset_group = gsub(".*_", "", dataset_id),
         method_group = gsub("_.*", "", method_id)
     ) %>%
     spread(metric_id, value) %>%
    mutate(
         format_check = (correct_format + finished) / 2,
         match_probability = (match_probability_mod1 + match_probability_mod2)/2
write_tsv(df %>% gather(metric_id, value, -starts_with("dataset_"), -starts_with("method_")), "results/pilot_materite_tsv(df %>% gather(metric_id, value, -starts_with("dataset_")), -starts_with("method_")), "results/pilot_materite_tsv(df %>% gather(metric_id, value, -starts_with("dataset_")), -starts_with("method_")), "results/pilot_materite_tsv(df %>% gather(method_")), "results/pilot_materite_tsv(gf %>% gather(method_")), "results/pilot_materite_tsv(gf %> gather(metho
Calculate mean score per method. Infinite values are replaced by the highest value in the results.
replace_inf <- function(x) ifelse(is.infinite(x), max(x[is.finite(x)]), x)</pre>
summ <- df %>%
     gather(metric_id, value, -starts_with("dataset_"), -starts_with("method_")) %>%
    mutate(value = replace_inf(value)) %>% # replace infinite values with the max
    group_by(method_id, metric_id) %>%
     summarise(
         mean = mean(value),
         sd = sd(value),
         var = var(value)
## 'summarise()' has grouped output by 'method_id'. You can override using the '.groups' argument.
```

write tsv(summ, "results/pilot match modality summary.tsv")

Visualise results

Colour by method (dummy_solution not shown).



Colour by dataset source (dummy_solution not shown).

