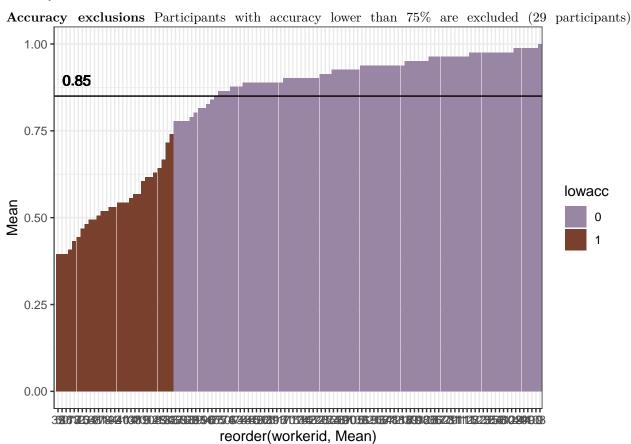
Perceptual Difficulty - Timed Perceptibility2 (difficulty analysis)

Stimuli check

```
## color material
## 'no' 0 81 81
## 'yes' 0 81 81
```



```
## # A tibble: 29 x 7
##
      workerid Mean CILow CIHigh YMin YMax lowacc
##
                     <dbl> <dbl> <dbl> <dbl> <chr>
         <int> <dbl>
            2 0.630 0.111 0.0991 0.519 0.729 1
##
   1
##
            4 0.543 0.0988 0.111 0.444 0.654 1
            5 0.617 0.111
                           0.111 0.506 0.728 1
                           0.0988 0.407 0.617 1
##
            11 0.519 0.111
##
   5
            12 0.444 0.111 0.111 0.333 0.556 1
            13 0.667 0.0988 0.0988 0.568 0.765 1
            14 0.519 0.111 0.111 0.407 0.630 1
##
            31 0.494 0.111
                           0.0991 0.383 0.593 1
           38 0.568 0.0988 0.111 0.469 0.679 1
```

```
## 10 39 0.395 0.111 0.111 0.284 0.506 1 ## # ... with 19 more rows
```

By response times

Regardless of response correctness and feature mathing

```
## # A tibble: 15 x 7
##
      label
                                feature
                                              Mean CILow CIHigh count group
##
      <fct>
                                <fct>
                                                           <dbl> <int> <chr>
                                             <dbl> <dbl>
                                ['silver']
                                             1239. 158.
##
    1 bowl_metal_green
                                                           142.
                                                                     22 rt
##
    2 chair_metal_purple
                                ['metal']
                                             1222. 129.
                                                           142.
                                                                     24 rt
##
    3 pitcher_glass_blue
                                ['plastic'] 1190. 135.
                                                           147.
                                                                     23 rt
                                ['denim']
                                                           108.
                                                                     23 rt
##
    4 jacket_leather_green
                                             1184.
                                                    98.9
##
    5 chair_metal_purple
                                ['silver']
                                             1183. 160.
                                                           165.
                                                                     22 rt
                                                           113.
##
    6 jacket_leather_original ['rubber']
                                             1160. 112.
                                                                     24 rt
    7 pitcher_plastic_blue
                                ['rubber']
                                             1158. 132.
                                                           141.
                                                                     23 rt
##
      jacket_denim_purple
                                ['denim']
                                             1157. 135.
                                                           162.
                                                                     23 rt
##
    9 chair_metal_purple
                                ['plastic'] 1149. 112.
                                                           120.
                                                                     24 rt
## 10 boot_leather_brown
                                ['rubber']
                                             1149. 101.
                                                            93.7
                                                                     23 rt
                                ['leather'] 1144. 155.
## 11 jacket_leather_green
                                                           152.
                                                                     19 rt
## 12 boot_leather_green
                                ['leather'] 1139. 118.
                                                           115.
                                                                     23 rt
## 13 jacket_leather_purple
                                ['leather'] 1135. 141.
                                                           157.
                                                                     23 rt
## 14 pitcher metal blue
                                ['metal']
                                             1134. 138.
                                                           142.
                                                                     24 rt
## 15 jacket_denim_purple
                                ['blue']
                                             1132. 138.
                                                                     23 rt
                                                           154.
## # A tibble: 15 x 7
##
      label
                               feature
                                               Mean CILow CIHigh count group
##
      <fct>
                                              <dbl> <dbl>
                                                            <dbl> <int> <chr>
                               <fct>
                                                     92.9
##
    1 spoon_plastic_original ['red']
                                               878.
                                                             94.6
                                                                      24 rt
##
                                                     81.2
                                                             86.8
                               ['blue']
                                               877.
                                                                      22 rt
    2 cup_metal_blue
##
    3 pitcher_glass_green
                               ['wood']
                                               877.
                                                     72.4
                                                             82.0
                                                                      24 rt
##
    4 chair_plastic_green
                               ['green']
                                               874.
                                                     84.9
                                                             89.9
                                                                      24 rt
    5 table_metal_blue
                               ['blue']
                                               873.
                                                     94.8
                                                            104.
                                                                      23 rt
##
##
                                               873. 106.
                                                            113.
    6 plate_plastic_original ['blue']
                                                                      19 rt
    7 pitcher_metal_green
                               ['green']
                                               872.
                                                     87.5
                                                             92.1
                                                                      24 rt
                                                     92.7
##
    8 box_cardboard_original ['cardboard']
                                               866.
                                                            105.
                                                                      19 rt
    9 chair_metal_original
                               ['paper']
                                               863. 121.
                                                            115.
                                                                      19 rt
                                               863.
                                                     85.8
                                                             79.7
## 10 boot_leather_green
                               ['green']
                                                                      24 rt
                                                     81.2
## 11 cup_plastic_blue
                               ['blue']
                                               861.
                                                             90.1
                                                                      20 rt
                                               860.
                                                     91.8
                                                             98.5
                                                                      22 rt
## 12 cup_plastic_green
                               ['green']
## 13 plate_plastic_green
                               ['green']
                                               853
                                                     88.5
                                                           113.
                                                                      24 rt
## 14 spoon_metal_original
                               ['pink']
                                               829.
                                                     64.4
                                                             64.4
                                                                      24 rt
                               ['blue']
                                               821.
                                                     60.9
                                                             68.0
                                                                      24 rt
## 15 spoon_plastic_blue
```

Only correct responses, regardless of feature matching

```
## # A tibble: 15 x 7
##
      label
                                 feature
                                               Mean CILow CIHigh count group
##
      <fct>
                                 <fct>
                                              <dbl> <dbl>
                                                            <dbl> <int> <chr>
                                                      156.
                                                                       7 correct_rt
##
    1 bowl_metal_green
                                 ['silver']
                                              1246.
                                                            157.
                                 ['glass']
                                              1232
                                                      165.
                                                            177.
    2 bottle_plastic_blue
                                                                      15 correct rt
                                              1205.
                                                      106.
    3 jacket_leather_green
                                 ['denim']
                                                            115.
                                                                      15 correct_rt
                                                     172.
    4 spoon_wood_green
                                 ['plastic'] 1200.
                                                            187.
                                                                       9 correct_rt
```

```
5 jacket_denim_purple
                                 ['denim']
                                              1196.
                                                     133.
                                                            145.
                                                                      20 correct rt
                                 ['metal']
                                                     126.
##
    6 chair_metal_purple
                                              1185.
                                                            142.
                                                                      22 correct_rt
    7 jacket leather original
                                 ['rubber']
                                              1176.
                                                     118.
                                                            115.
                                                                      22 correct rt
    8 jacket_leather_purple
                                 ['leather'] 1173.
                                                     149.
                                                            164.
                                                                      18 correct_rt
    9 table_metal_blue
                                 ['metal']
                                              1171.
                                                     160.
                                                            171.
                                                                      10 correct rt
                                 ['plastic'] 1169.
## 10 chair metal purple
                                                     159.
                                                            159.
                                                                      16 correct rt
                                 ['plastic'] 1149.
## 11 bottle_glass_original
                                                     160.
                                                            178.
                                                                      19 correct rt
                                 ['leather'] 1144.
## 12 boot_leather_green
                                                     102.
                                                            113.
                                                                      20 correct_rt
## 13 bowl_glass_green
                                 ['blue']
                                              1143.
                                                     113.
                                                            119.
                                                                      22 correct rt
## 14 pitcher_plastic_original
                                 ['plastic'] 1141.
                                                     159.
                                                            172.
                                                                      19 correct_rt
## 15 boot_leather_brown
                                 ['rubber']
                                              1134.
                                                      102.
                                                             98.3
                                                                      20 correct_rt
## # A tibble: 15 x 7
##
      label
                               feature
                                               Mean CILow CIHigh count group
##
      <fct>
                               <fct>
                                              <dbl> <dbl>
                                                            <dbl> <int> <chr>
                                                     70.3
##
    1 cup_plastic_original
                               ['clear']
                                               878.
                                                             83.2
                                                                      23 correct_rt
    2 cup_metal_blue
                                                             89.3
##
                               ['blue']
                                               877.
                                                     83.6
                                                                      22 correct_rt
##
    3 pitcher_glass_green
                               ['wood']
                                               877.
                                                     68.8
                                                             88.9
                                                                      24 correct_rt
##
    4 chair_plastic_green
                               ['green']
                                               874.
                                                     81.8
                                                             91.7
                                                                      24 correct rt
    5 table_metal_blue
                               ['blue']
                                               873. 100.
                                                            112.
##
                                                                      23 correct rt
##
    6 pitcher_metal_green
                               ['green']
                                               872.
                                                     90.8
                                                             93.9
                                                                      24 correct_rt
    7 box_cardboard_original ['cardboard']
                                               866.
##
                                                     91.7
                                                            113.
                                                                      19 correct_rt
                               ['paper']
    8 chair_metal_original
                                               863. 113.
                                                            109.
                                                                      19 correct_rt
    9 boot leather green
                               ['green']
                                               863.
                                                     79.0
                                                             79.0
                                                                      24 correct rt
                               ['blue']
                                               861.
                                                     81.6
                                                             87.8
## 10 cup_plastic_blue
                                                                      20 correct_rt
## 11 cup_plastic_green
                               ['green']
                                               860.
                                                     93.3
                                                            104.
                                                                      22 correct rt
## 12 plate_plastic_green
                               ['green']
                                               848.
                                                     94.5
                                                            105.
                                                                      23 correct_rt
## 13 plate_paper_original
                               ['white']
                                               839.
                                                     67.4
                                                             74.9
                                                                      21 correct_rt
## 14 spoon_metal_original
                               ['pink']
                                               829.
                                                     61.6
                                                             72.3
                                                                      24 correct_rt
## 15 spoon_plastic_blue
                               ['blue']
                                               821.
                                                     64.1
                                                             63.9
                                                                      24 correct_rt
```

Only correct responses, only matching features

```
## # A tibble: 15 x 7
##
                              feature
      label
                                            Mean CILow CIHigh count group
##
      <fct>
                              <fct>
                                           <dbl> <dbl>
                                                         <dbl> <int> <chr>
                                           1196. 126.
##
    1 jacket_denim_purple
                              ['denim']
                                                         138.
                                                                  20 correct matching~
##
    2 chair_metal_purple
                              ['metal']
                                           1185. 134.
                                                         144.
                                                                  22 correct_matching~
    3 jacket_leather_purple
                              ['leather'] 1173. 143.
                                                         167.
                                                                  18 correct_matching~
##
    4 table_metal_blue
                              ['metal']
                                           1171. 162.
                                                         169.
                                                                  10 correct_matching~
##
    5 boot_leather_green
                              ['leather'] 1144. 106.
                                                         112.
                                                                  20 correct_matching~
    6 pitcher plastic origi~
                              ['plastic'] 1141. 161.
                                                         179.
                                                                  19 correct matching~
                              ['leather'] 1127. 147.
                                                                  17 correct_matching~
##
    7 jacket_leather_green
                                                         140.
##
    8 spoon wood blue
                              ['wood']
                                           1126. 133.
                                                         148.
                                                                  18 correct matching~
                                           1122. 148.
##
    9 pitcher_metal_green
                              ['metal']
                                                         165.
                                                                  15 correct_matching~
## 10 chair_metal_green
                              ['metal']
                                           1118.
                                                  97.5
                                                          96.2
                                                                  21 correct_matching~
## 11 table_metal_green
                              ['metal']
                                           1115. 156.
                                                         174.
                                                                  16 correct_matching~
## 12 boot_rubber_brown
                              ['rubber']
                                           1111. 123.
                                                         134.
                                                                  23 correct_matching~
                              ['metal']
## 13 spoon_metal_green
                                           1091. 123.
                                                         146.
                                                                  19 correct_matching~
                              ['plastic'] 1087. 124.
## 14 chair_plastic_original
                                                         150.
                                                                  19 correct_matching~
## 15 chair_plastic_purple
                              ['plastic'] 1077. 83.7
                                                          87.9
                                                                  20 correct_matching~
## # A tibble: 15 x 7
##
      label
                             feature
                                            Mean CILow CIHigh count group
##
      <fct>
                             <fct>
                                           <dbl> <dbl>
                                                         <dbl> <int> <chr>
    1 bottle_glass_green
                             ['glass']
                                            884. 86.5
                                                          86.4
                                                                  24 correct matching~
```

```
2 plate_plastic_origin~
                              ['blue']
                                             880. 103.
                                                          128.
                                                                    18 correct matching~
                                             879. 110.
                                                          106.
##
    3 bag_plastic_blue
                              ['plastic']
                                                                    16 correct_matching~
                              ['clear']
                                                                    23 correct matching~
    4 cup_plastic_original
                                             878.
                                                   76.1
                                                           80.5
                              ['blue']
                                             877.
                                                   85.5
                                                           88.3
                                                                    22 correct_matching~
##
    5 cup_metal_blue
                                                                    24 correct_matching~
##
    6 chair_plastic_green
                              ['green']
                                             874.
                                                   82.1
                                                           88.3
                              ['blue']
##
    7 table metal blue
                                             873.
                                                   93.7
                                                          104.
                                                                    23 correct matching~
    8 pitcher metal green
                              ['green']
                                             872.
                                                   89.5
                                                           93.5
                                                                    24 correct matching~
##
    9 box_cardboard_origin~
                              ['cardboard~
                                             866.
                                                   96.6
                                                          104.
                                                                    19 correct_matching~
## 10 boot_leather_green
                              ['green']
                                             863.
                                                   79.2
                                                           76.8
                                                                    24 correct_matching~
                                                           89.8
## 11 cup_plastic_blue
                              ['blue']
                                             861.
                                                   85.8
                                                                    20 correct_matching~
## 12 cup_plastic_green
                              ['green']
                                             860.
                                                   95.4
                                                           90.8
                                                                    22 correct_matching~
                                             848.
                                                   99.6
                                                                    23 correct_matching~
## 13 plate_plastic_green
                              ['green']
                                                          115.
## 14 plate_paper_original
                              ['white']
                                             839.
                                                   66.1
                                                           76.3
                                                                    21 correct_matching~
## 15 spoon_plastic_blue
                              ['blue']
                                             821.
                                                   64.3
                                                           65.9
                                                                    24 correct_matching~
```

Only correct responses, only not matching features

```
## # A tibble: 15 x 7
##
      label
                            feature
                                           Mean CILow CIHigh count group
##
      <fct>
                             <fct>
                                                        <dbl> <int> <chr>
                                          <dbl> <dbl>
##
    1 bowl metal green
                             ['silver']
                                          1246. 154.
                                                        145
                                                                   7 correct notmatchi~
##
    2 bottle_plastic_blue
                            ['glass']
                                          1232
                                                173.
                                                        170.
                                                                  15 correct_notmatchi~
    3 jacket_leather_green ['denim']
                                          1205. 104.
                                                        121.
                                                                  15 correct notmatchi~
    4 spoon_wood_green
                                          1200. 166.
##
                             ['plastic']
                                                        174.
                                                                   9 correct notmatchi~
                                          1176. 110.
##
    5 jacket leather orig~ ['rubber']
                                                        117.
                                                                  22 correct notmatchi~
##
    6 chair_metal_purple
                             ['plastic']
                                          1169. 155.
                                                        156.
                                                                  16 correct_notmatchi~
    7 bottle_glass_origin~ ['plastic']
                                          1149. 162.
                                                        174.
                                                                  19 correct_notmatchi~
    8 bowl_glass_green
                             ['blue']
                                          1143. 122.
                                                        122.
                                                                  22 correct_notmatchi~
##
##
    9 boot_leather_brown
                             ['rubber']
                                          1134.
                                                 98.2
                                                         98.9
                                                                  20 correct_notmatchi~
## 10 spoon_wood_original
                             ['cardboard~ 1107
                                                106.
                                                        115.
                                                                  22 correct_notmatchi~
## 11 chair_plastic_origi~ ['wood']
                                          1095. 99.5
                                                         99.3
                                                                  18 correct_notmatchi~
## 12 plate_paper_green
                             ['glass']
                                          1094. 119.
                                                        133.
                                                                  20 correct_notmatchi~
## 13 spoon_wood_original
                             ['clear']
                                          1093. 106.
                                                        113.
                                                                  22 correct_notmatchi~
  14 chair_metal_purple
                             ['silver']
                                          1091
                                                143.
                                                        164.
                                                                  19 correct_notmatchi~
## 15 bag_plastic_blue
                             ['purple']
                                          1091. 130.
                                                        148.
                                                                  23 correct_notmatchi~
## # A tibble: 15 x 7
##
      label
                                          Mean CILow CIHigh count group
                            feature
##
      <fct>
                             <fct>
                                         <dbl> <dbl>
                                                       <dbl> <int> <chr>
                                          902.
                                                66.4
##
    1 box_cardboard_green
                             ['denim']
                                                        66.0
                                                                 23 correct_notmatchin~
##
    2 boot_rubber_brown
                             ['silver']
                                          900.
                                                87.5
                                                        86.4
                                                                 22 correct_notmatchin~
##
    3 bowl metal blue
                             ['wood']
                                          900. 102.
                                                       112.
                                                                 24 correct notmatchin~
    4 bottle_glass_origin~ ['brown']
                                          897.
                                                71.9
                                                                 23 correct_notmatchin~
##
                                                        81.4
##
    5 bowl metal original
                             ['wood']
                                          895.
                                                91.4
                                                        99.4
                                                                 19 correct notmatchin~
    6 jacket_leather_purp~ ['red']
##
                                          894.
                                                75.5
                                                        86.5
                                                                 22 correct_notmatchin~
##
    7 table_metal_green
                             ['paper']
                                          891.
                                                 79.0
                                                        87.5
                                                                 18 correct_notmatchin~
    8 boot_rubber_original ['red']
                                          891.
                                                89.9
                                                        87.5
                                                                 22 correct_notmatchin~
    9 bottle_plastic_green ['cardboar~
                                          883.
                                                85.1
                                                        84.6
                                                                 20 correct_notmatchin~
## 10 boot_leather_green
                                          880.
                                                92.2
                                                       110.
                                                                 19 correct_notmatchin~
                             ['pink']
                                          879.
                                                 78.1
                                                        87.5
## 11 bag_paper_blue
                             ['glass']
                                                                 19 correct_notmatchin~
                                                 95.0
                                                        93.5
## 12 spoon_plastic_origi~ ['red']
                                          878.
                                                                 24 correct_notmatchin~
## 13 pitcher_glass_green
                             ['wood']
                                          877.
                                                76.3
                                                        82.8
                                                                 24 correct_notmatchin~
## 14 chair_metal_original ['paper']
                                                                 19 correct_notmatchin~
                                          863. 116.
                                                       116.
## 15 spoon_metal_original ['pink']
                                          829.
                                                58.8
                                                        61.5
                                                                 24 correct notmatchin~
```

By error rates

Regardless of feature matching

9 bowl_metal_green

```
## # A tibble: 15 x 7
##
      label
                             feature
                                           Mean CILow CIHigh count group
##
      <fct>
                             <fct>
                                          <dbl> <dbl>
                                                       <dbl> <int> <chr>
##
    1 boot_rubber_original ['green']
                                                0
                                                                 24 er
    2 pitcher_glass_blue
                             ['clear']
                                          0
                                                0
                                                                 23 er
##
                                                       0
##
    3 bowl metal green
                             ['silver']
                                         0.318 0.182
                                                       0.182
                                                                 22 er
##
    4 spoon_wood_green
                             ['plastic'] 0.474 0.211
                                                       0.211
                                                                 19 er
    5 table_metal_blue
                             ['metal']
                                          0.526 0.211
                                                       0.211
##
    6 pitcher_glass_blue
                             ['plastic'] 0.565 0.217
                                                       0.217
                                                                 23 er
    7 bottle_plastic_blue
                             ['glass']
                                          0.625 0.167
                                                       0.208
                                                                 24
                                                       0.167
    8 pitcher_metal_blue
                             ['metal']
##
                                          0.625 0.168
                                                                 24 er
    9 jacket_leather_green ['denim']
                                          0.652 0.174
                                                       0.174
                                                                 23 er
## 10 chair_metal_purple
                             ['plastic'] 0.667 0.208
                                                       0.167
                                                                 24 er
                                                       0.167
## 11 table_metal_green
                             ['metal']
                                          0.667 0.208
                                                                 24 er
                             ['metal']
                                          0.682 0.227
                                                       0.182
## 12 pitcher_metal_green
                                                                 22 er
## 13 plate_paper_green
                             ['paper']
                                          0.7
                                                0.200
                                                       0.2
                                                                 20 er
                             ['metal']
## 14 spoon_metal_blue
                                          0.7
                                                0.200
                                                       0.2
                                                                 20 er
## 15 bottle_glass_blue
                             ['plastic'] 0.714 0.190
                                                       0.190
                                                                 21 er
  # A tibble: 15 x 7
##
      label
                               feature
                                             Mean CILow CIHigh count group
##
      <fct>
                                                          <dbl> <int> <chr>
                               <fct>
                                            <dbl> <dbl>
##
    1 spoon_plastic_blue
                               ['plastic']
                                                1
                                                       0
                                                              0
                                                                   23 er
    2 spoon_plastic_green
                               ['pink']
                                                       0
                                                              0
                                                                    22 er
    3 spoon_plastic_original ['denim']
                                                              0
                                                                   22 er
##
                                                1
                                                       0
##
    4 spoon_plastic_original ['plastic']
                                                1
                                                       0
                                                              0
                                                                   19 er
                                                              0
                                                1
                                                       0
                                                                   24 er
##
    5 spoon_plastic_original ['red']
    6 spoon_wood_original
                               ['brown']
                                                1
                                                       0
                                                              0
                                                                   20 er
                                                       0
                                                              0
##
    7 table_metal_blue
                               ['blue']
                                                1
                                                                   23 er
                               ['green']
##
                                                1
                                                       0
                                                              0
                                                                    24 er
    8 table_metal_blue
                                                              0
    9 table_metal_green
                               ['blue']
                                                1
                                                       0
                                                                    24 er
                                                       0
                                                              0
                                                                   23 er
## 10 table_metal_green
                               ['green']
                                                1
## 11 table_metal_green
                               ['paper']
                                                1
                                                       0
                                                              0
                                                                    18 er
## 12 table_wood_blue
                               ['leather']
                                                1
                                                       0
                                                              0
                                                                   23 er
                               ['brown']
                                                              0
                                                                   24 er
## 13 table_wood_original
                                                1
## 14 table_wood_original
                               ['plastic']
                                                1
                                                       0
                                                              \cap
                                                                   23 er
## 15 table_wood_original
                               ['wood']
                                                                   20 er
Only matching features
## # A tibble: 15 x 7
##
      label
                               feature
                                             Mean CILow CIHigh count group
##
      <fct>
                               <fct>
                                            <dbl> <dbl>
                                                          <dbl> <int> <chr>
                                                                    24 matching_er
##
    1 boot_rubber_original
                               ['green']
                                                  0
                                                          0
                                                         0.211
                                            0.526 0.211
##
    2 table_metal_blue
                               ['metal']
                                                                    19 matching_er
##
    3 pitcher_metal_blue
                               ['metal']
                                            0.625 0.208
                                                         0.208
                                                                   24 matching_er
                               ['metal']
##
    4 table_metal_green
                                            0.667 0.167
                                                         0.167
                                                                    24 matching_er
                               ['metal']
                                            0.682 0.227
                                                          0.182
##
    5 pitcher_metal_green
                                                                    22 matching_er
##
      plate_paper_green
                               ['paper']
                                            0.7
                                                  0.200
                                                         0.2
                                                                    20 matching_er
##
                               ['metal']
                                                  0.200
                                                         0.2
    7 spoon_metal_blue
                                            0.7
                                                                   20 matching_er
    8 spoon_wood_blue
                               ['blue']
                                            0.739 0.174
                                                         0.174
                                                                    23 matching_er
```

['green']

0.75 0.167

0.167

24 matching_er

```
## 10 plate_plastic_original ['plastic'] 0.75 0.167
                                                         0.167
                                                                   24 matching er
                               ['paper']
## 11 bag_paper_green
                                           0.783 0.174
                                                         0.174
                                                                   23 matching_er
                                                                   23 matching er
## 12 jacket_leather_purple
                               ['leather'] 0.783 0.174
                                                         0.130
## 13 plate_paper_blue
                               ['paper']
                                           0.783 0.174
                                                         0.130
                                                                   23 matching_er
## 14 spoon_wood_blue
                               ['wood']
                                           0.783 0.174
                                                         0.174
                                                                   23 matching er
## 15 table_metal_original
                               ['metal']
                                           0.783 0.174
                                                         0.130
                                                                   23 matching er
##
   # A tibble: 15 x 7
##
      label
                                 feature
                                              Mean CILow CIHigh count group
##
      <fct>
                                 <fct>
                                             <dbl> <dbl>
                                                           <dbl> <int> <chr>
##
    1 pitcher_metal_blue
                                 ['blue']
                                                        0
                                                                     21 matching_er
                                                 1
                                                               0
                                                        0
##
    2 pitcher_metal_green
                                 ['green']
                                                 1
                                                               0
                                                                     24 matching_er
##
    3 pitcher_plastic_blue
                                 ['plastic']
                                                  1
                                                        0
                                                               0
                                                                     24 matching_er
                                                        0
##
    4 pitcher_plastic_green
                                 ['green']
                                                  1
                                                               0
                                                                     23 matching_er
    5 pitcher_plastic_original
                                 ['white']
                                                 1
                                                        0
                                                                     23 matching_er
                                                        0
##
                                 ['blue']
                                                               0
    6 spoon_metal_blue
                                                 1
                                                                     23 matching_er
##
      spoon_metal_original
                                 ['silver']
                                                 1
                                                        0
                                                               0
                                                                        matching_er
    7
##
    8 spoon_plastic_blue
                                 ['blue']
                                                  1
                                                        0
                                                               0
                                                                     24 matching_er
    9 spoon_plastic_blue
                                 ['plastic']
                                                 1
                                                        0
                                                               0
                                                                     23 matching er
                                 ['plastic']
                                                        0
## 10 spoon_plastic_original
                                                 1
                                                               0
                                                                     19 matching_er
## 11 spoon_wood_original
                                 ['brown']
                                                 1
                                                        0
                                                               0
                                                                     20 matching_er
                                 ['blue']
                                                        0
## 12 table_metal_blue
                                                 1
                                                                     23 matching_er
                                 ['green']
                                                        0
                                                               0
                                                                     23 matching_er
## 13 table_metal_green
                                                 1
## 14 table wood original
                                 ['brown']
                                                 1
                                                        0
                                                               0
                                                                     24 matching er
                                 ['wood']
## 15 table_wood_original
                                                 1
                                                        0
                                                                     20 matching er
Only not matching features
## # A tibble: 15 x 7
##
      label
                                 feature
                                              Mean CILow CIHigh count group
##
      <fct>
                                 <fct>
                                             <dbl> <dbl>
                                                           <dbl> <int> <chr>
##
                                 ['clear']
    1 pitcher_glass_blue
                                                                     23 notmatching_er
##
    2 bowl_metal_green
                                 ['silver']
                                             0.318 0.182
                                                           0.227
                                                                     22 notmatching_er
##
                                 ['plastic'] 0.474 0.211
                                                           0.211
                                                                     19 notmatching_er
    3 spoon_wood_green
##
    4 pitcher_glass_blue
                                 ['plastic'] 0.565 0.217
                                                           0.217
                                                                     23 notmatching_er
                                 ['glass']
##
    5 bottle_plastic_blue
                                             0.625 0.208
                                                           0.208
                                                                     24 notmatching_er
##
    6 jacket_leather_green
                                 ['denim']
                                             0.652 0.174
                                                           0.217
                                                                     23 notmatching er
                                 ['plastic'] 0.667 0.167
##
    7 chair_metal_purple
                                                           0.168
                                                                     24 notmatching er
    8 bottle_glass_blue
                                 ['plastic'] 0.714 0.190
                                                           0.190
                                                                     21 notmatching_er
    9 table_metal_original
                                 ['black']
                                             0.75 0.200
                                                          0.15
                                                                     20 notmatching_er
## 10 jacket_denim_purple
                                 ['blue']
                                             0.783 0.174 0.130
                                                                     23 notmatching_er
## 11 pitcher plastic blue
                                 ['rubber']
                                             0.826 0.174 0.130
                                                                     23 notmatching er
## 12 pitcher_plastic_original ['rubber']
                                             0.826 0.174
                                                           0.130
                                                                     23 notmatching_er
## 13 bag_plastic_green
                                 ['rubber']
                                             0.85
                                                   0.15
                                                           0.15
                                                                     20 notmatching er
## 14 chair_metal_green
                                 ['clear']
                                             0.85 0.200
                                                           0.15
                                                                     20 notmatching_er
## 15 bottle_glass_original
                                 ['plastic'] 0.864 0.136
                                                                     22 notmatching_er
## # A tibble: 15 x 7
##
      label
                              feature
                                            Mean CILow CIHigh count group
##
      <fct>
                              <fct>
                                           <dbl> <dbl>
                                                         <dbl> <int> <chr>
    1 plate_plastic_pink
                               ['silver']
                                               1
                                                      0
                                                             0
                                                                   20 notmatching_er
##
                               ['paper']
                                               1
                                                      0
                                                             0
                                                                   23 notmatching_er
    2 spoon_metal_blue
##
                                                             0
                                               1
                                                      0
                                                                   24 notmatching_er
    3 spoon_metal_blue
                               ['pink']
##
    4 spoon_metal_green
                               ['black']
                                               1
                                                      0
                                                             0
                                                                   20 notmatching_er
##
    5 spoon_metal_green
                               ['paper']
                                               1
                                                      0
                                                             0
                                                                   24 notmatching_er
    6 spoon_metal_original
                               ['pink']
                                                                   24 notmatching er
```

```
## 7 spoon_metal_original
                              ['wood']
                                                                 19 notmatching_er
## 8 spoon_plastic_green
                              ['pink']
                                              1
                                                                 22 notmatching_er
                                                    0
                                                           0
## 9 spoon_plastic_original ['denim']
                                              1
                                                                 22 notmatching_er
                                                           0
## 10 spoon_plastic_original ['red']
                                              1
                                                    0
                                                           0
                                                                 24 notmatching_er
## 11 table_metal_blue
                              ['green']
                                                    0
                                                                 24 notmatching_er
                                              1
                                                           0
## 12 table_metal_green
                              ['blue']
                                              1
                                                    0
                                                           0
                                                                 24 notmatching_er
## 13 table_metal_green
                                                                 18 notmatching_er
                              ['paper']
                                              1
                                                    0
                                                           0
## 14 table_wood_blue
                              ['leather']
                                                                 23 notmatching_er
                                              1
                                                    0
                                                           0
                              ['plastic']
## 15 table_wood_original
                                                                 23 notmatching_er
```

count

Is there overlap?

```
## # A tibble: 49 x 3
## # Groups: label [36]
## label
## <fct>
```

##		<fct></fct>	<fct></fct>	<int></int>
##	1	bag_paper_green	['paper']	1
##	2	bag_plastic_blue	['purple']	1
##	3	bag_plastic_green	['rubber']	1
##	4	boot_leather_brown	['rubber']	3
##	5	boot_leather_green	['leather']	3
##	6	boot_rubber_brown	['rubber']	1
##	7	boot_rubber_original	['green']	2
##	8	bottle_glass_blue	['plastic']	2
##	9	bottle_glass_original	['plastic']	3
##	10	bottle_plastic_blue	['glass']	4

feature

... with 39 more rows