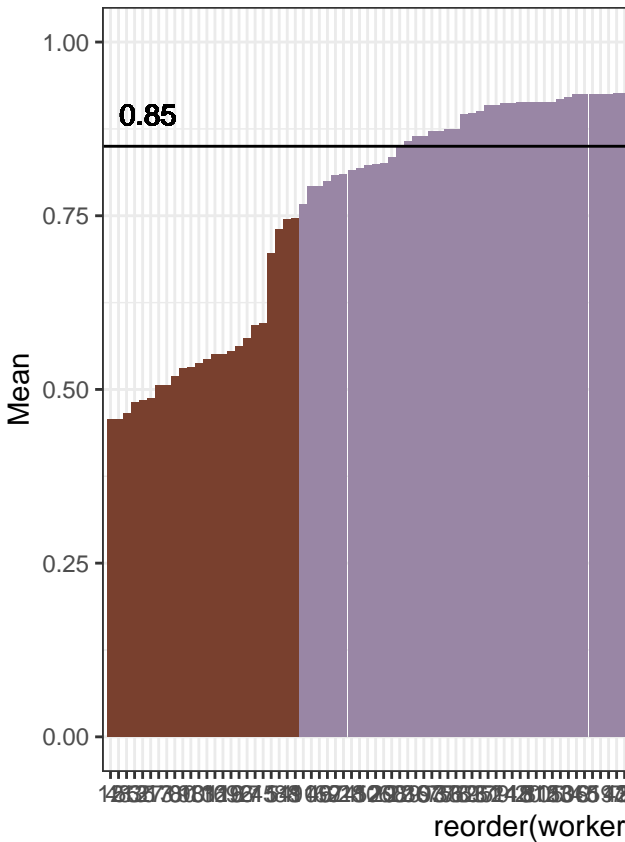# Perceptual Difficulty - Randomized and Timed Perceptibility2
(difficulty analysis)

Stimuli check

```
##
##     color material
##  no    81       81
##  yes   81       81
```

Exclusions Participants whose native language is not English are excluded

```
##   workerid language
## 1       57  Chinese
## 2       82
## 3       90  Spanish
```


Participants with accuracy lower than 75% are excluded (29 participants)

```
## # A tibble: 24 x 7
##    workerid  Mean  CILow CIHigh  YMin  YMax lowacc
##       <int> <dbl>  <dbl>  <dbl> <dbl> <dbl> <chr>
## 1        0 0.519 0.0991  0.111 0.419 0.630 1
## 2        1 0.746 0.119   0.104 0.627 0.851 1
```

```
##  3          3 0.506 0.101   0.114 0.405 0.620 1
##  4          6 0.573 0.12    0.107 0.453 0.68  1
##  5          7 0.593 0.0991  0.111 0.494 0.704 1
##  6         12 0.457 0.111   0.123 0.346 0.580 1
##  7         13 0.481 0.101   0.114 0.380 0.595 1
##  8         16 0.556 0.127   0.112 0.429 0.667 1
##  9         17 0.506 0.111   0.111 0.395 0.617 1
## 10         27 0.488 0.112   0.1   0.375 0.588 1
## # ... with 14 more rows
```

By response times

Regardless of response correctness and feature matching

```
## # A tibble: 15 x 7
##    label                         condition    Mean CILow CIHigh count group
##    <fct>                         <chr>       <dbl> <dbl>  <dbl> <int> <chr>
##  1 table_metal_blue              material yes 1266.  143.   150.    22 rt
##  2 table_metal_green             material yes 1253.  173.   177.    20 rt
##  3 chair_metal_purple            material yes 1244.  116.   121.    25 rt
##  4 box_wood_blue                 material yes 1212.  133.   161.    23 rt
##  5 plate_plastic_pink            material yes 1211.  127.   132.    20 rt
##  6 table_metal_silver_original   material yes 1204.  125.   110.    20 rt
##  7 table_wood_green              material yes 1201.  109.   115.    26 rt
##  8 chair_metal_green             material yes 1187.  127.   136.    20 rt
##  9 jacket_leather_green          material yes 1187.  125.   130.    24 rt
## 10 bottle_glass_blue             material yes 1185.  117.   126.    23 rt
## 11 pitcher_metal_blue            material yes 1185.  167.   152.    22 rt
## 12 spoon_wood_green              material yes 1179.  135.   142.    24 rt
## 13 plate_paper_blue              material no  1177.  125.   135.    25 rt
## 14 boot_leather_green            material yes 1174.  124.   131.    19 rt
## 15 pitcher_plastic_white_original material yes 1174.  123.   122.    20 rt

## # A tibble: 15 x 7
##    label                         condition    Mean CILow CIHigh count group
##    <fct>                         <chr>       <dbl> <dbl>  <dbl> <int> <chr>
##  1 plate_paper_blue              color yes    943.  106.   119.    25 rt
##  2 table_metal_blue              color yes    941.  102.   110.    26 rt
##  3 box_cardboard_brown_original  color yes    941.   91.9  105.    26 rt
##  4 table_wood_green              color no     940.   92.4  103.    20 rt
##  5 table_metal_green             color yes    938.   69.6   80.8   20 rt
##  6 cup_plastic_green             color no     932.   70.7   79.5   25 rt
##  7 chair_plastic_blue_original   color yes    930.   80.9   84.0   20 rt
##  8 table_wood_brown_original     material yes  928.   94.8  103.    25 rt
##  9 spoon_metal_green             color yes    924.   96.3  103.    25 rt
## 10 jacket_denim_purple           color yes    922.   68.9   84.1   20 rt
## 11 pitcher_metal_blue            color yes    922    95.6  120.    20 rt
## 12 cup_plastic_blue              material yes  918.   72.5   86.8   26 rt
## 13 table_wood_brown_original     color yes    917.   74.8   87.4   24 rt
## 14 cup_plastic_green             color yes    911.  119.   135.    20 rt
## 15 plate_plastic_blue_original   color yes    875.   90.0  101.    24 rt
```

Only correct responses, regardless of feature matching

```
## # A tibble: 15 x 7
##    label                   condition     Mean CILow CIHigh count group
##    <fct>                   <chr>        <dbl> <dbl>  <dbl> <int> <chr>
## 1  table_metal_green       material yes 1316.  200.   216.    12 correct_rt
## 2  table_metal_blue        material yes 1305.  196.   205.    14 correct_rt
## 3  chair_metal_purple      material yes 1282.  135.   138.    19 correct_rt
## 4  table_wood_green        material yes 1206.  117.   121.    23 correct_rt
## 5  bottle_glass_clear_original color no 1190.  132.   134.    22 correct_rt
## 6  table_metal_silver_original material yes 1185.  156.   155.  15 correct_rt
## 7  jacket_leather_purple   material yes 1185.  170.   194.    17 correct_rt
## 8  chair_metal_green       material yes 1181.  141.   134.    19 correct_rt
## 9  boot_leather_green      material yes 1174.  120.   126.    19 correct_rt
## 10 chair_metal_silver_original material yes 1165.  157.   156.  24 correct_rt
## 11 boot_leather_black_original material no 1164.  130.   150.  24 correct_rt
## 12 spoon_metal_green       material yes 1161.  167.   177.    18 correct_rt
## 13 spoon_wood_blue         color no     1160.  157.   171.    21 correct_rt
## 14 chair_wood_purple       material yes 1157.  158.   172.    21 correct_rt
## 15 table_wood_blue         material yes 1156.  139.   166.    25 correct_rt
```

```
## # A tibble: 15 x 7
##    label                   condition     Mean CILow CIHigh count group
##    <fct>                   <chr>        <dbl> <dbl>  <dbl> <int> <chr>
## 1  box_wood_brown_original material yes  936  94.7   108.    23 correct_rt
## 2  bottle_plastic_green    color yes     935. 106.   108.    18 correct_rt
## 3  bowl_metal_silver_original material yes 934. 101.  127.    22 correct_rt
## 4  cup_plastic_green       color no      932.  76.3   82.6   25 correct_rt
## 5  table_wood_brown_original material yes 928.  88.1  104.    25 correct_rt
## 6  jacket_denim_purple     color yes     922.  80.7   82.1   20 correct_rt
## 7  table_metal_blue        color yes     922.  90.4  100.     25 correct_rt
## 8  cup_plastic_blue        material yes   918.  80.3   87.9   26 correct_rt
## 9  cup_plastic_clear_original color yes   917. 103.   109.    21 correct_rt
## 10 pitcher_metal_blue      color yes     915.  97.2  109.     19 correct_rt
## 11 cup_plastic_green       color yes     911. 121.   135.     20 correct_rt
## 12 bottle_glass_green      color yes     903.  79.6   93.0    19 correct_rt
## 13 chair_plastic_blue_original color yes  890.  81.6   73.5   18 correct_rt
## 14 table_wood_brown_original color yes    876.  62.5   70.3   22 correct_rt
## 15 plate_plastic_blue_original color yes  875.  98.9  104.     24 correct_rt
```

Only correct responses, only matching features

```
## # A tibble: 15 x 7
##    label                   condition     Mean CILow CIHigh count group
##    <fct>                   <chr>        <dbl> <dbl>  <dbl> <int> <chr>
## 1  table_metal_green       material y~  1316.  200.   222.    12 correct_matchin~
## 2  table_metal_blue        material y~  1305.  203.   200.    14 correct_matchin~
## 3  chair_metal_purple      material y~  1282.  139.   141.    19 correct_matchin~
## 4  table_wood_green        material y~  1206.  120.   128.    23 correct_matchin~
## 5  table_metal_silver_ori~ material y~  1185.  155.   161.    15 correct_matchin~
## 6  jacket_leather_purple   material y~  1185.  180.   207.    17 correct_matchin~
## 7  chair_metal_green       material y~  1181.  133.   143.    19 correct_matchin~
## 8  boot_leather_green      material y~  1174.  129.   135.    19 correct_matchin~
## 9  chair_metal_silver_ori~ material y~  1165.  145.   155.    24 correct_matchin~
## 10 spoon_metal_green       material y~  1161.  164.   179.    18 correct_matchin~
## 11 chair_wood_purple       material y~  1157.  167.   176.    21 correct_matchin~
## 12 table_wood_blue         material y~  1156.  151.   160.    25 correct_matchin~
```

3

```
## 13 plate_paper_blue        material y~ 1149. 147.    155.      16 correct_matchin~
## 14 bottle_glass_blue       material y~ 1147. 122.    118.      21 correct_matchin~
## 15 jacket_denim_green      material y~ 1146.  85.8    87.8     17 correct_matchin~

## # A tibble: 15 x 7
##    label                  condition     Mean CILow CIHigh count group
##    <fct>                  <chr>        <dbl> <dbl>  <dbl> <int> <chr>
##  1 box_cardboard_brown_or~ material yes  936.  92.8  101.      23 correct_matchi~
##  2 box_wood_brown_original material yes  936   90.1  103.      23 correct_matchi~
##  3 bottle_plastic_green   color yes     935. 105.   109.      18 correct_matchi~
##  4 bowl_metal_silver_orig~ material yes  934. 101.   126.      22 correct_matchi~
##  5 table_wood_brown_origi~ material yes  928.  98.1  105.      25 correct_matchi~
##  6 jacket_denim_purple    color yes     922.  79.4   75.0     20 correct_matchi~
##  7 table_metal_blue       color yes     922.  93.5  102.      25 correct_matchi~
##  8 cup_plastic_blue       material yes  918.  76.6   87.4     26 correct_matchi~
##  9 cup_plastic_clear_orig~ color yes     917. 103.   113.      21 correct_matchi~
## 10 pitcher_metal_blue     color yes     915.  85.1  108.      19 correct_matchi~
## 11 cup_plastic_green      color yes     911. 116.   130.      20 correct_matchi~
## 12 bottle_glass_green     color yes     903.  74.7   89.7     19 correct_matchi~
## 13 chair_plastic_blue_ori~ color yes     890.  74.5   75.9     18 correct_matchi~
## 14 table_wood_brown_origi~ color yes     876.  62.2   61.7     22 correct_matchi~
## 15 plate_plastic_blue_ori~ color yes     875.  88.5  110.      24 correct_matchi~
```

Only correct responses, only not matching features

```
## # A tibble: 15 x 7
##    label                  condition     Mean CILow CIHigh count group
##    <fct>                  <chr>        <dbl> <dbl>  <dbl> <int> <chr>
##  1 bottle_glass_clear_or~ color no     1190. 132.   131.      22 correct_notmatch~
##  2 boot_leather_black_or~ material no  1164. 126.   138.      24 correct_notmatch~
##  3 spoon_wood_blue        color no     1160. 158.   176.      21 correct_notmatch~
##  4 plate_paper_blue       material no  1155. 125.   141.      23 correct_notmatch~
##  5 boot_leather_brown     color no     1150. 149.   148.      25 correct_notmatch~
##  6 bottle_glass_green     material no  1146. 138.   138.      22 correct_notmatch~
##  7 chair_metal_green      color no     1146. 151.   165.      25 correct_notmatch~
##  8 spoon_wood_green       material no  1144. 134.   146.      22 correct_notmatch~
##  9 table_wood_brown_orig~ color no     1140. 135.   154.      23 correct_notmatch~
## 10 bottle_glass_green     color no     1137. 119.   128.      24 correct_notmatch~
## 11 bag_paper_brown_origi~ material no  1135. 124.   137.      25 correct_notmatch~
## 12 cup_metal_green        color no     1131. 153.   164.      24 correct_notmatch~
## 13 boot_leather_green     material no  1126. 124.   142.      26 correct_notmatch~
## 14 jacket_denim_green     material no  1123. 132.   145.      27 correct_notmatch~
## 15 plate_paper_white_ori~ material no  1122. 119.   125.      26 correct_notmatch~

## # A tibble: 15 x 7
##    label                  condition     Mean CILow CIHigh count group
##    <fct>                  <chr>        <dbl> <dbl>  <dbl> <int> <chr>
##  1 pitcher_glass_blue     material no   979.  97.2   91.7     17 correct_notmatc~
##  2 pitcher_plastic_white_~ material no   978. 114.   135.      24 correct_notmatc~
##  3 chair_wood_brown_origi~ color no      977. 106.   114.      20 correct_notmatc~
##  4 chair_plastic_blue_ori~ color no      972. 104.   108.      24 correct_notmatc~
##  5 jacket_denim_purple    material no   968. 125.   128.      22 correct_notmatc~
##  6 cup_metal_silver_origi~ color no      966. 104.   105.      22 correct_notmatc~
##  7 jacket_denim_blue_orig~ color no      964.  90.0  117.      19 correct_notmatc~
##  8 chair_metal_purple     color no      962. 115.   123.      18 correct_notmatc~
##  9 table_wood_green       material no   961. 120.   139.      20 correct_notmatc~
```

```
## 10 table_wood_brown_origi~ material no  961. 71.6  81.8     20 correct_notmatc~
## 11 jacket_leather_black_o~ color    no  960. 88.9 101.      19 correct_notmatc~
## 12 bowl_glass_green         material no  954. 104.  117.     20 correct_notmatc~
## 13 boot_rubber_brown        color    no  942. 84.1  90.2     23 correct_notmatc~
## 14 table_wood_green         color    no  937. 93.2 103.      19 correct_notmatc~
## 15 cup_plastic_green        color    no  932. 80.4  77.5     25 correct_notmatc~
```

By error rates

Regardless of feature matching

```
## # A tibble: 15 x 7
##    label                     condition     Mean CILow CIHigh count group
##    <fct>                     <chr>        <dbl> <dbl>  <dbl> <int> <chr>
##  1 table_metal_green         material yes 0.6   0.200 0.2       20 er
##  2 table_metal_blue          material yes 0.636 0.182 0.182     22 er
##  3 plate_paper_blue          material yes 0.667 0.208 0.167     24 er
##  4 spoon_wood_green          material yes 0.667 0.208 0.208     24 er
##  5 box_cardboard_blue        material no  0.708 0.167 0.167     24 er
##  6 boot_rubber_brown         material yes 0.72  0.160 0.16      25 er
##  7 spoon_wood_blue           material yes 0.737 0.211 0.211     19 er
##  8 bowl_glass_blue           material yes 0.75  0.200 0.15      20 er
##  9 table_metal_silver_original material yes 0.75 0.200 0.15     20 er
## 10 chair_metal_purple        material yes 0.76  0.200 0.16      25 er
## 11 jacket_denim_purple       material yes 0.76  0.16  0.16      25 er
## 12 bag_plastic_blue          material no  0.789 0.211 0.158     19 er
## 13 plate_plastic_green       material yes 0.789 0.211 0.158     19 er
## 14 bag_plastic_green         material no  0.792 0.167 0.126     24 er
## 15 boot_rubber_green         color yes    0.792 0.167 0.167     24 er
```

```
## # A tibble: 15 x 7
##    label                      condition    Mean CILow CIHigh count group
##    <fct>                      <chr>       <dbl> <dbl>  <dbl> <int> <chr>
##  1 spoon_metal_silver_original material yes   1     0      0    24 er
##  2 spoon_plastic_green         color yes      1     0      0    25 er
##  3 spoon_plastic_white_original color no      1     0      0    24 er
##  4 spoon_wood_brown_original   material no    1     0      0    24 er
##  5 spoon_wood_green            material no    1     0      0    22 er
##  6 table_metal_blue            material no    1     0      0    20 er
##  7 table_metal_green           material no    1     0      0    24 er
##  8 table_metal_silver_original material no    1     0      0    25 er
##  9 table_wood_blue             color no       1     0      0    23 er
## 10 table_wood_blue             color yes      1     0      0    27 er
## 11 table_wood_blue             material no    1     0      0    20 er
## 12 table_wood_blue             material yes   1     0      0    25 er
## 13 table_wood_brown_original   material no    1     0      0    20 er
## 14 table_wood_brown_original   material yes   1     0      0    25 er
## 15 table_wood_green            color yes      1     0      0    25 er
```

Only matching features

```
## # A tibble: 15 x 7
##    label                      condition    Mean CILow CIHigh count group
##    <fct>                      <chr>       <dbl> <dbl>  <dbl> <int> <chr>
```

```
##  1 table_metal_green         material yes 0.6   0.200  0.2      20 matching_er
##  2 table_metal_blue          material yes 0.636 0.182  0.182    22 matching_er
##  3 plate_paper_blue          material yes 0.667 0.167  0.167    24 matching_er
##  4 spoon_wood_green          material yes 0.667 0.208  0.167    24 matching_er
##  5 boot_rubber_brown         material yes 0.72  0.200  0.16     25 matching_er
##  6 spoon_wood_blue           material yes 0.737 0.211  0.159    19 matching_er
##  7 bowl_glass_blue           material yes 0.75  0.200  0.15     20 matching_er
##  8 table_metal_silver_original material yes 0.75 0.200 0.151    20 matching_er
##  9 chair_metal_purple        material yes 0.76  0.16   0.16     25 matching_er
## 10 jacket_denim_purple       material yes 0.76  0.200  0.16     25 matching_er
## 11 plate_plastic_green       material yes 0.789 0.211  0.158    19 matching_er
## 12 boot_rubber_green         color yes    0.792 0.167  0.167    24 matching_er
## 13 spoon_wood_blue           color yes    0.792 0.167  0.167    24 matching_er
## 14 bowl_metal_blue           material yes 0.8   0.16   0.12     25 matching_er
## 15 bowl_metal_green          color yes    0.8   0.16   0.12     25 matching_er

## # A tibble: 15 x 7
##    label                    condition    Mean CILow CIHigh count group
##    <fct>                    <chr>       <dbl> <dbl>  <dbl> <int> <chr>
##  1 pitcher_metal_green      color yes       1     0      0    25 matching_er
##  2 pitcher_metal_green      material yes    1     0      0    19 matching_er
##  3 pitcher_plastic_blue     material yes    1     0      0    26 matching_er
##  4 plate_paper_blue         color yes       1     0      0    25 matching_er
##  5 plate_paper_green        color yes       1     0      0    26 matching_er
##  6 plate_paper_white_original color yes     1     0      0    25 matching_er
##  7 plate_plastic_blue_original color yes    1     0      0    24 matching_er
##  8 plate_plastic_green      color yes       1     0      0    25 matching_er
##  9 spoon_metal_silver_original color yes    1     0      0    20 matching_er
## 10 spoon_metal_silver_original material yes 1     0      0    24 matching_er
## 11 spoon_plastic_green      color yes       1     0      0    25 matching_er
## 12 table_wood_blue          color yes       1     0      0    27 matching_er
## 13 table_wood_blue          material yes    1     0      0    25 matching_er
## 14 table_wood_brown_original material yes   1     0      0    25 matching_er
## 15 table_wood_green         color yes       1     0      0    25 matching_er
```

Only not matching features

```
## # A tibble: 15 x 7
##    label                    condition    Mean CILow CIHigh count group
##    <fct>                    <chr>       <dbl> <dbl>  <dbl> <int> <chr>
##  1 box_cardboard_blue       material no  0.708 0.167  0.167    24 notmatching_~
##  2 bag_plastic_blue         material no  0.789 0.211  0.158    19 notmatching_~
##  3 bag_plastic_green        material no  0.792 0.167  0.126    24 notmatching_~
##  4 pitcher_glass_green      color no     0.792 0.167  0.167    24 notmatching_~
##  5 box_cardboard_brown_origi~ material no 0.8  0.15   0.150    20 notmatching_~
##  6 chair_metal_green        material no  0.815 0.148  0.148    27 notmatching_~
##  7 bag_paper_blue           material no  0.833 0.126  0.125    24 notmatching_~
##  8 cup_plastic_clear_original color no   0.833 0.167  0.125    24 notmatching_~
##  9 boot_rubber_brown        material no  0.84  0.160  0.12     25 notmatching_~
## 10 bag_paper_green          color no     0.85  0.15   0.15     20 notmatching_~
## 11 pitcher_glass_clear_origi~ color no   0.85  0.200  0.15     20 notmatching_~
## 12 pitcher_plastic_blue     color no     0.85  0.200  0.15     20 notmatching_~
## 13 pitcher_metal_green      material no  0.852 0.148  0.111    27 notmatching_~
## 14 plate_plastic_pink       material no  0.852 0.148  0.111    27 notmatching_~
## 15 spoon_metal_green        material no  0.852 0.148  0.111    27 notmatching_~
```

```
## # A tibble: 15 x 7
##    label                    condition    Mean CILow CIHigh count group
##    <fct>                    <chr>       <dbl> <dbl>  <dbl> <int> <chr>
##  1 jacket_leather_purple    material no     1     0      0    23 notmatching~
##  2 pitcher_metal_blue       color no        1     0      0    24 notmatching~
##  3 pitcher_metal_silver_origi~ color no     1     0      0    24 notmatching~
##  4 pitcher_plastic_green    material no     1     0      0    22 notmatching~
##  5 plate_paper_green        color no        1     0      0    23 notmatching~
##  6 plate_plastic_blue_original material no  1     0      0    24 notmatching~
##  7 spoon_plastic_white_origin~ color no     1     0      0    24 notmatching~
##  8 spoon_wood_brown_original material no    1     0      0    24 notmatching~
##  9 spoon_wood_green         material no     1     0      0    22 notmatching~
## 10 table_metal_blue         material no     1     0      0    20 notmatching~
## 11 table_metal_green        material no     1     0      0    24 notmatching~
## 12 table_metal_silver_original material no  1     0      0    25 notmatching~
## 13 table_wood_blue          color no        1     0      0    23 notmatching~
## 14 table_wood_blue          material no     1     0      0    20 notmatching~
## 15 table_wood_brown_original material no    1     0      0    20 notmatching~
```

Is there overlap?

```
## # A tibble: 60 x 3
## # Groups:   label [48]
##    label                      condition    count
##    <fct>                      <chr>        <int>
##  1 chair_metal_purple         material yes     5
##  2 table_metal_blue           material yes     5
##  3 table_metal_green          material yes     5
##  4 table_metal_silver_original material yes     5
##  5 boot_leather_green         material yes     3
##  6 chair_metal_green          material yes     3
##  7 plate_paper_blue           material yes     3
##  8 spoon_wood_green           material yes     3
##  9 table_wood_green           material yes     3
## 10 bag_plastic_blue           material no      2
## 11 bag_plastic_green          material no      2
## 12 boot_leather_black_original material no      2
## 13 boot_rubber_brown          material yes     2
## 14 boot_rubber_green          color yes        2
## 15 bottle_glass_blue          material yes     2
## 16 bottle_glass_clear_original color no         2
## 17 bowl_glass_blue            material yes     2
## 18 box_cardboard_blue         material no      2
## 19 chair_metal_silver_original material yes     2
## 20 chair_wood_purple          material yes     2
## 21 jacket_denim_purple        material yes     2
## 22 jacket_leather_purple      material yes     2
## 23 plate_paper_blue           material no      2
## 24 plate_plastic_green        material yes     2
## 25 spoon_metal_green          material yes     2
## 26 spoon_wood_blue            color no         2
## 27 spoon_wood_blue            material yes     2
```

```
## 28 table_wood_blue              material yes     2
## 29 bag_paper_blue               material no      1
## 30 bag_paper_brown_original     material no      1
## 31 bag_paper_green              color no         1
## 32 boot_leather_brown           color no         1
## 33 boot_leather_green           material no      1
## 34 boot_rubber_brown            material no      1
## 35 bottle_glass_green           color no         1
## 36 bottle_glass_green           material no      1
## 37 bowl_metal_blue              material yes      1
## 38 bowl_metal_green             color yes         1
## 39 box_cardboard_brown_original material no      1
## 40 box_wood_blue                material yes      1
## 41 chair_metal_green            color no         1
## 42 chair_metal_green            material no      1
## 43 cup_metal_green              color no         1
## 44 cup_plastic_clear_original   color no         1
## 45 jacket_denim_green           material no      1
## 46 jacket_denim_green           material yes      1
## 47 jacket_leather_green         material yes      1
## 48 pitcher_glass_clear_original color no         1
## 49 pitcher_glass_green          color no         1
## 50 pitcher_metal_blue           material yes      1
## 51 pitcher_metal_green          material no      1
## 52 pitcher_plastic_blue         color no         1
## 53 pitcher_plastic_white_original material yes    1
## 54 plate_paper_white_original   material no      1
## 55 plate_plastic_pink           material no      1
## 56 plate_plastic_pink           material yes      1
## 57 spoon_metal_green            material no      1
## 58 spoon_wood_blue              color yes         1
## 59 spoon_wood_green             material no      1
## 60 table_wood_brown_original    color no         1

## # A tibble: 60 x 3
## # Groups:   label [42]
##    label                       condition      count
##    <fct>                       <chr>          <int>
##  1 table_wood_brown_original    material yes       5
##  2 plate_plastic_blue_original  color yes          4
##  3 chair_plastic_blue_original  color yes          3
##  4 cup_plastic_blue             material yes       3
##  5 cup_plastic_green            color no           3
##  6 cup_plastic_green            color yes          3
##  7 jacket_denim_purple          color yes          3
##  8 pitcher_metal_blue           color yes          3
##  9 table_metal_blue             color yes          3
## 10 table_wood_brown_original    color yes          3
## 11 table_wood_brown_original    material no        3
## 12 bottle_glass_green           color yes          2
## 13 bottle_plastic_green         color yes          2
## 14 bowl_metal_silver_original   material yes       2
## 15 box_wood_brown_original      material yes       2
## 16 cup_plastic_clear_original   color yes          2
```

```
## 17 plate_paper_blue                    color    yes    2
## 18 spoon_metal_silver_original         material yes    2
## 19 spoon_plastic_green                 color    yes    2
## 20 spoon_plastic_white_original        color    no     2
## 21 spoon_wood_brown_original           material no     2
## 22 spoon_wood_green                    material no     2
## 23 table_metal_blue                    material no     2
## 24 table_metal_green                   material no     2
## 25 table_metal_silver_original         material no     2
## 26 table_wood_blue                     color    no     2
## 27 table_wood_blue                     color    yes    2
## 28 table_wood_blue                     material no     2
## 29 table_wood_blue                     material yes    2
## 30 table_wood_green                    color    no     2
## 31 table_wood_green                    color    yes    2
## 32 boot_rubber_brown                   color    no     1
## 33 bowl_glass_green                    material no     1
## 34 box_cardboard_brown_original        color    yes    1
## 35 box_cardboard_brown_original        material yes    1
## 36 chair_metal_purple                  color    no     1
## 37 chair_plastic_blue_original         color    no     1
## 38 chair_wood_brown_original           color    no     1
## 39 cup_metal_silver_original           color    no     1
## 40 jacket_denim_blue_original          color    no     1
## 41 jacket_denim_purple                 material no     1
## 42 jacket_leather_black_original       color    no     1
## 43 jacket_leather_purple               material no     1
## 44 pitcher_glass_blue                  material no     1
## 45 pitcher_metal_blue                  color    no     1
## 46 pitcher_metal_green                 color    yes    1
## 47 pitcher_metal_green                 material yes    1
## 48 pitcher_metal_silver_original       color    no     1
## 49 pitcher_plastic_blue                material yes    1
## 50 pitcher_plastic_green               material no     1
## 51 pitcher_plastic_white_original      material no     1
## 52 plate_paper_green                   color    no     1
## 53 plate_paper_green                   color    yes    1
## 54 plate_paper_white_original          color    yes    1
## 55 plate_plastic_blue_original         material no     1
## 56 plate_plastic_green                 color    yes    1
## 57 spoon_metal_green                   color    yes    1
## 58 spoon_metal_silver_original         color    yes    1
## 59 table_metal_green                   color    yes    1
## 60 table_wood_green                    material no     1
```