Exploratory 1A Analysis

# Load packages

# Read and clean data

# DATA

Select only variables we’re interested in

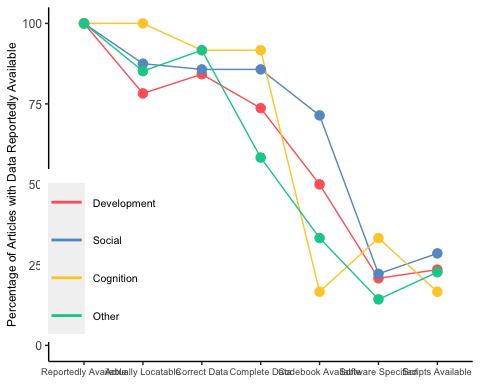
Let’s create some summary tables

Let’s bind all these statistics together

## # A tibble: 28 × 4  
## # Groups: subfield\_groups [4]  
## subfield\_groups Real\_Stage Number Percent  
## <chr> <chr> <dbl> <dbl>  
## 1 Cognition Reportedly Available 24 100   
## 2 Development Reportedly Available 9 100   
## 3 Other Reportedly Available 12 100   
## 4 Social Reportedly Available 28 100   
## 5 Cognition Actually Locatable 18 78.3  
## 6 Development Actually Locatable 7 87.5  
## 7 Other Actually Locatable 12 100   
## 8 Social Actually Locatable 23 85.2  
## 9 Cognition Correct Data 16 84.2  
## 10 Development Correct Data 6 85.7  
## # … with 18 more rows

Let’s plot

## Warning: It is deprecated to specify `guide = FALSE` to remove a guide. Please  
## use `guide = "none"` instead.



Now let’s generate a table that summarises some descriptives

data\_percentages <- all\_data\_stats %>%  
 pivot\_wider(names\_from = subfield\_groups, values\_from = "Number", c("Real\_Stage", "Number"))   
  
data\_summary <- gt(data\_percentages) %>%  
 cols\_label(Real\_Stage = "Open Data Practice") %>%  
 cols\_move(columns = c(Development, Social, Cognition, Other),  
 after = `Real\_Stage`) %>%  
 opt\_table\_font("Times New Roman") %>%  
 cell\_text(color = "black")   
  
data\_summary

## $cell\_text  
## $color  
## [1] "black"  
##   
## $font  
## <div id="gzqxzxmpwi" style="overflow-x:auto;overflow-y:auto;width:auto;height:auto;">  
## <style>html {  
## font-family: 'Times New Roman', -apple-system, BlinkMacSystemFont, 'Segoe UI', Roboto, Oxygen, Ubuntu, Cantarell, 'Helvetica Neue', 'Fira Sans', 'Droid Sans', Arial, sans-serif;  
## }  
##   
## #gzqxzxmpwi .gt\_table {  
## display: table;  
## border-collapse: collapse;  
## margin-left: auto;  
## margin-right: auto;  
## color: #333333;  
## font-size: 16px;  
## font-weight: normal;  
## font-style: normal;  
## background-color: #FFFFFF;  
## width: auto;  
## border-top-style: solid;  
## border-top-width: 2px;  
## border-top-color: #A8A8A8;  
## border-right-style: none;  
## border-right-width: 2px;  
## border-right-color: #D3D3D3;  
## border-bottom-style: solid;  
## border-bottom-width: 2px;  
## border-bottom-color: #A8A8A8;  
## border-left-style: none;  
## border-left-width: 2px;  
## border-left-color: #D3D3D3;  
## }  
##   
## #gzqxzxmpwi .gt\_heading {  
## background-color: #FFFFFF;  
## text-align: center;  
## border-bottom-color: #FFFFFF;  
## border-left-style: none;  
## border-left-width: 1px;  
## border-left-color: #D3D3D3;  
## border-right-style: none;  
## border-right-width: 1px;  
## border-right-color: #D3D3D3;  
## }  
##   
## #gzqxzxmpwi .gt\_title {  
## color: #333333;  
## font-size: 125%;  
## font-weight: initial;  
## padding-top: 4px;  
## padding-bottom: 4px;  
## border-bottom-color: #FFFFFF;  
## border-bottom-width: 0;  
## }  
##   
## #gzqxzxmpwi .gt\_subtitle {  
## color: #333333;  
## font-size: 85%;  
## font-weight: initial;  
## padding-top: 0;  
## padding-bottom: 4px;  
## border-top-color: #FFFFFF;  
## border-top-width: 0;  
## }  
##   
## #gzqxzxmpwi .gt\_bottom\_border {  
## border-bottom-style: solid;  
## border-bottom-width: 2px;  
## border-bottom-color: #D3D3D3;  
## }  
##   
## #gzqxzxmpwi .gt\_col\_headings {  
## border-top-style: solid;  
## border-top-width: 2px;  
## border-top-color: #D3D3D3;  
## border-bottom-style: solid;  
## border-bottom-width: 2px;  
## border-bottom-color: #D3D3D3;  
## border-left-style: none;  
## border-left-width: 1px;  
## border-left-color: #D3D3D3;  
## border-right-style: none;  
## border-right-width: 1px;  
## border-right-color: #D3D3D3;  
## }  
##   
## #gzqxzxmpwi .gt\_col\_heading {  
## color: #333333;  
## background-color: #FFFFFF;  
## font-size: 100%;  
## font-weight: normal;  
## text-transform: inherit;  
## border-left-style: none;  
## border-left-width: 1px;  
## border-left-color: #D3D3D3;  
## border-right-style: none;  
## border-right-width: 1px;  
## border-right-color: #D3D3D3;  
## vertical-align: bottom;  
## padding-top: 5px;  
## padding-bottom: 6px;  
## padding-left: 5px;  
## padding-right: 5px;  
## overflow-x: hidden;  
## }  
##   
## #gzqxzxmpwi .gt\_column\_spanner\_outer {  
## color: #333333;  
## background-color: #FFFFFF;  
## font-size: 100%;  
## font-weight: normal;  
## text-transform: inherit;  
## padding-top: 0;  
## padding-bottom: 0;  
## padding-left: 4px;  
## padding-right: 4px;  
## }  
##   
## #gzqxzxmpwi .gt\_column\_spanner\_outer:first-child {  
## padding-left: 0;  
## }  
##   
## #gzqxzxmpwi .gt\_column\_spanner\_outer:last-child {  
## padding-right: 0;  
## }  
##   
## #gzqxzxmpwi .gt\_column\_spanner {  
## border-bottom-style: solid;  
## border-bottom-width: 2px;  
## border-bottom-color: #D3D3D3;  
## vertical-align: bottom;  
## padding-top: 5px;  
## padding-bottom: 6px;  
## overflow-x: hidden;  
## display: inline-block;  
## width: 100%;  
## }  
##   
## #gzqxzxmpwi .gt\_group\_heading {  
## padding: 8px;  
## color: #333333;  
## background-color: #FFFFFF;  
## font-size: 100%;  
## font-weight: initial;  
## text-transform: inherit;  
## border-top-style: solid;  
## border-top-width: 2px;  
## border-top-color: #D3D3D3;  
## border-bottom-style: solid;  
## border-bottom-width: 2px;  
## border-bottom-color: #D3D3D3;  
## border-left-style: none;  
## border-left-width: 1px;  
## border-left-color: #D3D3D3;  
## border-right-style: none;  
## border-right-width: 1px;  
## border-right-color: #D3D3D3;  
## vertical-align: middle;  
## }  
##   
## #gzqxzxmpwi .gt\_empty\_group\_heading {  
## padding: 0.5px;  
## color: #333333;  
## background-color: #FFFFFF;  
## font-size: 100%;  
## font-weight: initial;  
## border-top-style: solid;  
## border-top-width: 2px;  
## border-top-color: #D3D3D3;  
## border-bottom-style: solid;  
## border-bottom-width: 2px;  
## border-bottom-color: #D3D3D3;  
## vertical-align: middle;  
## }  
##   
## #gzqxzxmpwi .gt\_from\_md > :first-child {  
## margin-top: 0;  
## }  
##   
## #gzqxzxmpwi .gt\_from\_md > :last-child {  
## margin-bottom: 0;  
## }  
##   
## #gzqxzxmpwi .gt\_row {  
## padding-top: 8px;  
## padding-bottom: 8px;  
## padding-left: 5px;  
## padding-right: 5px;  
## margin: 10px;  
## border-top-style: solid;  
## border-top-width: 1px;  
## border-top-color: #D3D3D3;  
## border-left-style: none;  
## border-left-width: 1px;  
## border-left-color: #D3D3D3;  
## border-right-style: none;  
## border-right-width: 1px;  
## border-right-color: #D3D3D3;  
## vertical-align: middle;  
## overflow-x: hidden;  
## }  
##   
## #gzqxzxmpwi .gt\_stub {  
## color: #333333;  
## background-color: #FFFFFF;  
## font-size: 100%;  
## font-weight: initial;  
## text-transform: inherit;  
## border-right-style: solid;  
## border-right-width: 2px;  
## border-right-color: #D3D3D3;  
## padding-left: 12px;  
## }  
##   
## #gzqxzxmpwi .gt\_summary\_row {  
## color: #333333;  
## background-color: #FFFFFF;  
## text-transform: inherit;  
## padding-top: 8px;  
## padding-bottom: 8px;  
## padding-left: 5px;  
## padding-right: 5px;  
## }  
##   
## #gzqxzxmpwi .gt\_first\_summary\_row {  
## padding-top: 8px;  
## padding-bottom: 8px;  
## padding-left: 5px;  
## padding-right: 5px;  
## border-top-style: solid;  
## border-top-width: 2px;  
## border-top-color: #D3D3D3;  
## }  
##   
## #gzqxzxmpwi .gt\_grand\_summary\_row {  
## color: #333333;  
## background-color: #FFFFFF;  
## text-transform: inherit;  
## padding-top: 8px;  
## padding-bottom: 8px;  
## padding-left: 5px;  
## padding-right: 5px;  
## }  
##   
## #gzqxzxmpwi .gt\_first\_grand\_summary\_row {  
## padding-top: 8px;  
## padding-bottom: 8px;  
## padding-left: 5px;  
## padding-right: 5px;  
## border-top-style: double;  
## border-top-width: 6px;  
## border-top-color: #D3D3D3;  
## }  
##   
## #gzqxzxmpwi .gt\_striped {  
## background-color: rgba(128, 128, 128, 0.05);  
## }  
##   
## #gzqxzxmpwi .gt\_table\_body {  
## border-top-style: solid;  
## border-top-width: 2px;  
## border-top-color: #D3D3D3;  
## border-bottom-style: solid;  
## border-bottom-width: 2px;  
## border-bottom-color: #D3D3D3;  
## }  
##   
## #gzqxzxmpwi .gt\_footnotes {  
## color: #333333;  
## background-color: #FFFFFF;  
## border-bottom-style: none;  
## border-bottom-width: 2px;  
## border-bottom-color: #D3D3D3;  
## border-left-style: none;  
## border-left-width: 2px;  
## border-left-color: #D3D3D3;  
## border-right-style: none;  
## border-right-width: 2px;  
## border-right-color: #D3D3D3;  
## }  
##   
## #gzqxzxmpwi .gt\_footnote {  
## margin: 0px;  
## font-size: 90%;  
## padding: 4px;  
## }  
##   
## #gzqxzxmpwi .gt\_sourcenotes {  
## color: #333333;  
## background-color: #FFFFFF;  
## border-bottom-style: none;  
## border-bottom-width: 2px;  
## border-bottom-color: #D3D3D3;  
## border-left-style: none;  
## border-left-width: 2px;  
## border-left-color: #D3D3D3;  
## border-right-style: none;  
## border-right-width: 2px;  
## border-right-color: #D3D3D3;  
## }  
##   
## #gzqxzxmpwi .gt\_sourcenote {  
## font-size: 90%;  
## padding: 4px;  
## }  
##   
## #gzqxzxmpwi .gt\_left {  
## text-align: left;  
## }  
##   
## #gzqxzxmpwi .gt\_center {  
## text-align: center;  
## }  
##   
## #gzqxzxmpwi .gt\_right {  
## text-align: right;  
## font-variant-numeric: tabular-nums;  
## }  
##   
## #gzqxzxmpwi .gt\_font\_normal {  
## font-weight: normal;  
## }  
##   
## #gzqxzxmpwi .gt\_font\_bold {  
## font-weight: bold;  
## }  
##   
## #gzqxzxmpwi .gt\_font\_italic {  
## font-style: italic;  
## }  
##   
## #gzqxzxmpwi .gt\_super {  
## font-size: 65%;  
## }  
##   
## #gzqxzxmpwi .gt\_footnote\_marks {  
## font-style: italic;  
## font-weight: normal;  
## font-size: 65%;  
## }  
## </style>  
## <table class="gt\_table">  
##   
## <thead class="gt\_col\_headings">  
## <tr>  
## <th class="gt\_col\_heading gt\_columns\_bottom\_border gt\_left" rowspan="1" colspan="1">Open Data Practice</th>  
## <th class="gt\_col\_heading gt\_columns\_bottom\_border gt\_right" rowspan="1" colspan="1">Development</th>  
## <th class="gt\_col\_heading gt\_columns\_bottom\_border gt\_right" rowspan="1" colspan="1">Social</th>  
## <th class="gt\_col\_heading gt\_columns\_bottom\_border gt\_right" rowspan="1" colspan="1">Cognition</th>  
## <th class="gt\_col\_heading gt\_columns\_bottom\_border gt\_right" rowspan="1" colspan="1">Other</th>  
## </tr>  
## </thead>  
## <tbody class="gt\_table\_body">  
## <tr><td class="gt\_row gt\_left">Reportedly Available</td>  
## <td class="gt\_row gt\_right">9</td>  
## <td class="gt\_row gt\_right">28</td>  
## <td class="gt\_row gt\_right">24</td>  
## <td class="gt\_row gt\_right">12</td></tr>  
## <tr><td class="gt\_row gt\_left">Actually Locatable</td>  
## <td class="gt\_row gt\_right">7</td>  
## <td class="gt\_row gt\_right">23</td>  
## <td class="gt\_row gt\_right">18</td>  
## <td class="gt\_row gt\_right">12</td></tr>  
## <tr><td class="gt\_row gt\_left">Correct Data</td>  
## <td class="gt\_row gt\_right">6</td>  
## <td class="gt\_row gt\_right">22</td>  
## <td class="gt\_row gt\_right">16</td>  
## <td class="gt\_row gt\_right">11</td></tr>  
## <tr><td class="gt\_row gt\_left">Complete Data</td>  
## <td class="gt\_row gt\_right">6</td>  
## <td class="gt\_row gt\_right">14</td>  
## <td class="gt\_row gt\_right">14</td>  
## <td class="gt\_row gt\_right">11</td></tr>  
## <tr><td class="gt\_row gt\_left">Software Specified</td>  
## <td class="gt\_row gt\_right">2</td>  
## <td class="gt\_row gt\_right">4</td>  
## <td class="gt\_row gt\_right">5</td>  
## <td class="gt\_row gt\_right">4</td></tr>  
## <tr><td class="gt\_row gt\_left">Codebook Available</td>  
## <td class="gt\_row gt\_right">5</td>  
## <td class="gt\_row gt\_right">8</td>  
## <td class="gt\_row gt\_right">9</td>  
## <td class="gt\_row gt\_right">2</td></tr>  
## <tr><td class="gt\_row gt\_left">Scripts Available</td>  
## <td class="gt\_row gt\_right">2</td>  
## <td class="gt\_row gt\_right">5</td>  
## <td class="gt\_row gt\_right">4</td>  
## <td class="gt\_row gt\_right">2</td></tr>  
## </tbody>  
##   
##   
## </table>  
## </div>  
##   
## attr(,"class")  
## [1] "cell\_text" "cell\_style"  
##   
## attr(,"class")  
## [1] "cell\_styles"

# MATERIALS

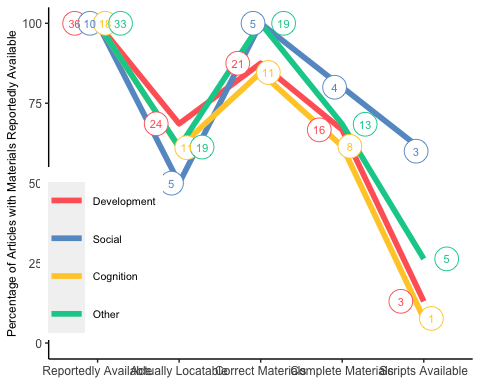
Select only the variables we’re interested in

Let’s create some summary tables

Let’s bind all these statistics together

Let’s plot

## Warning: It is deprecated to specify `guide = FALSE` to remove a guide. Please  
## use `guide = "none"` instead.



## Warning: position\_dodge requires non-overlapping x intervals  
  
## Warning: It is deprecated to specify `guide = FALSE` to remove a guide. Please  
## use `guide = "none"` instead.

