# Plot My-Sample

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<pre>metaviz_long &lt;- rio::import(here::here("data", "metaviz_long.rds"))</pre>	

# Explore Data for Gene Analysis

### All variables

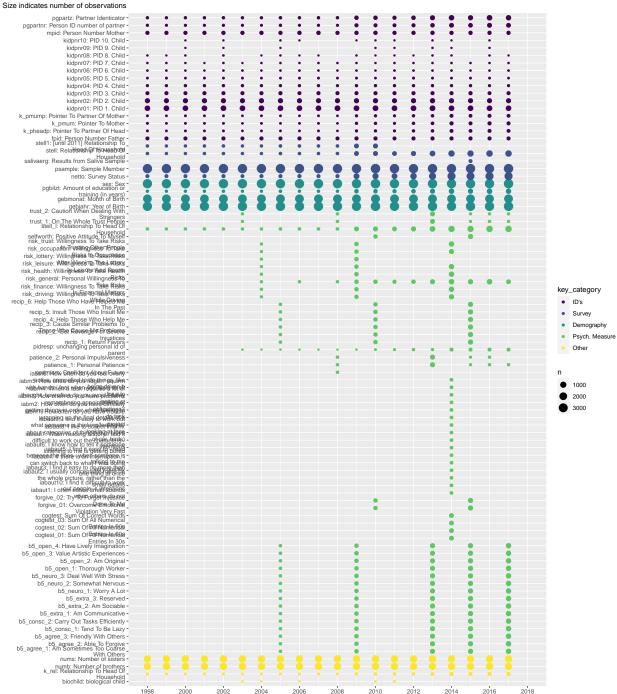
### By Year

First you can see the number of available observation for each variable in each year

- x-axis = survey year
- y-axis = variables
- size = number of observations
- colour = variable group

```
labs(title = "Number of observations for selected SOEP variables from 1998 - 2018", subtitle = "Size indicates number of observations", y = "", x = "")
```

## Number of observations for selected SOEP variables from 1998 – 2018 $\,$



#### Overall

Here is an overall plot of the number of available observations for each of the variables. It helps to get a general understanding of the proportions of missings for groups of variables

```
metaviz_long %>%
     drop_na(value) %>%
     filter(key_category != "Psych. Measure") %>%
     group_by(key) %>%
      add_count() %>%
     ungroup() %>%
     distinct(key, .keep_all = T) %>%
     group_by(key_category) %>%
     mutate(key_name_label = fct_reorder(factor(key_name_label), n)) %>%
     ggplot(aes(x = key_name_label, y = n, fill = key_category, label = n)) +
     geom_col(width = 0.2) +
     geom_point() +
     geom_label(color = "white", size = 2) +
      coord_flip() +
      scale_y_continuous(labels = scales::label_number_auto()) +
      scale_x_discrete(labels = wrap_format(40))+
     theme_light() +
     theme(legend.position = "none") +
     facet_wrap(~key_category, ncol = 1, scales = "free") +
     labs(title = "Overall Number of observations for selected SOEP variables from 1998 - 2018", y = "
```

## Overall Number of observations



## By Variable Cate-

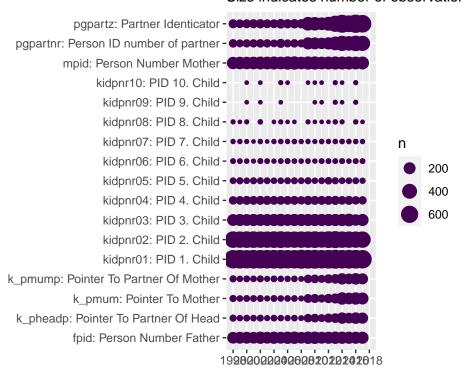
gory {.tabset}

## By Year

```
metaviz_long %>%
    drop_na(value) %>%
    filter(key_category == "ID's") %>%
    ggplot(aes(key_name_label, syear)) +
    geom_count(col= "#440154FF") +
    coord_flip() +
    theme(legend.position="right") +
    scale_x_discrete(labels = wrap_format(40))+
    scale_y_continuous(limits= c(1998, 2018), breaks = seq(1998,2018,2)) +
    labs(title = "Number of observations for selected SOEP variables from 1998 - 2018",
```

```
subtitle = "Size indicates number of observations",
y = "", x = "")
```

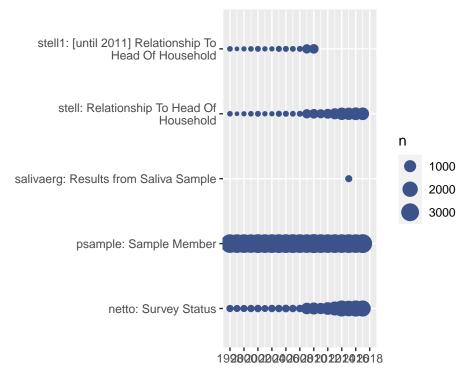
# Number of observations for selections indicates number of observation



#### ID's

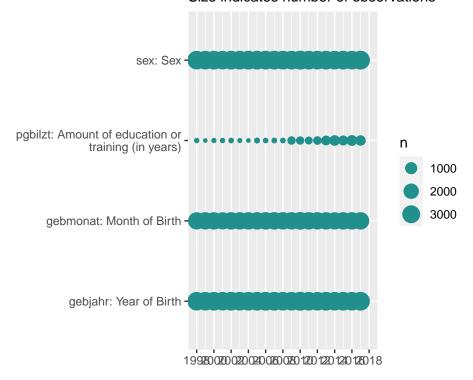
```
metaviz_long %>%
    drop_na(value) %>%
    filter(key_category == "Survey") %>%
    ggplot(aes(key_name_label, syear)) +
    geom_count(col= "#3B528BFF") +
    coord_flip() +
    theme(legend.position="right") +
    scale_x_discrete(labels = wrap_format(40))+
    scale_y_continuous(limits= c(1998, 2018), breaks = seq(1998,2018,2)) +
    labs(title = "Number of observations for selected SOEP variables from 1998 - 2018",
        subtitle = "Size indicates number of observations",
        y = "", x = "")
```

# Number of observations for selective Size indicates number of observations



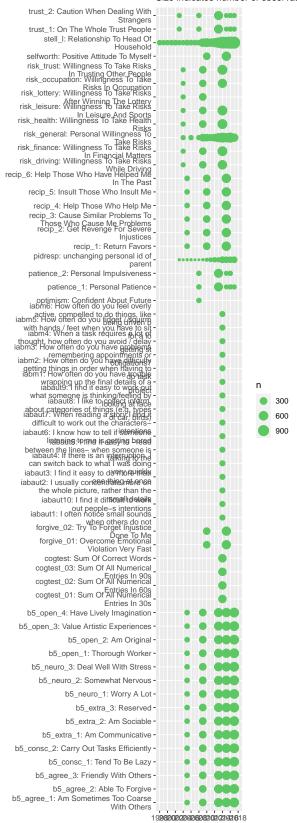
#### Survey

# Number of observations for selected Size indicates number of observations



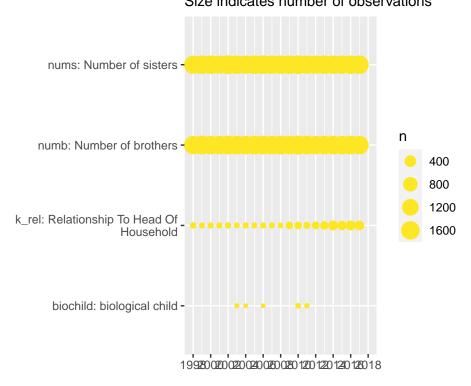
### Demography

#### Number of observations for s Size indicates number of observat



Psychol. Measures

# Number of observations for selected : Size indicates number of observations



#### Other

# Supplement

### resources

- $\hbox{ row names to column: $https://stackoverflow.com/questions/29511215/convert-row-names-into-first-column } \\$
- age categories: https://ggplot2.tidyverse.org/reference/cut\_interval.html
- $\hbox{ wrap label names: } https://stackoverflow.com/questions/21878974/auto-wrapping-of-labels-via-labeller-label-wrap-in-ggplot2 \\$