## Plot My-Sample

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| etaviz_long <- rio::import(here::here("data-processed", "metaviz_long.rds")) |

## Explore Data for My-Project

### All variables

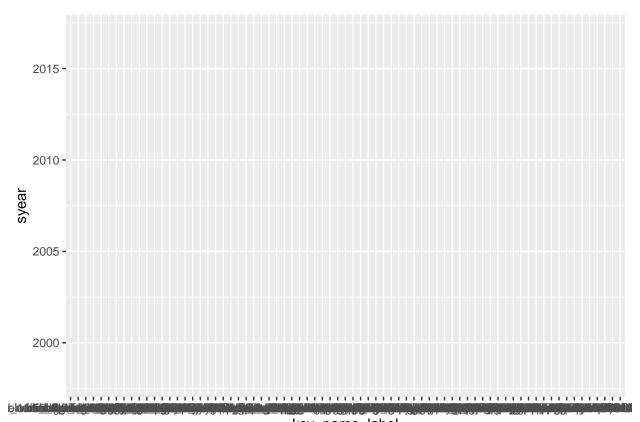
### By Year

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

- x-axis = survey year
- y-axis = variables
- $\bullet$  size = number of observations
- $\bullet$  color = variable group

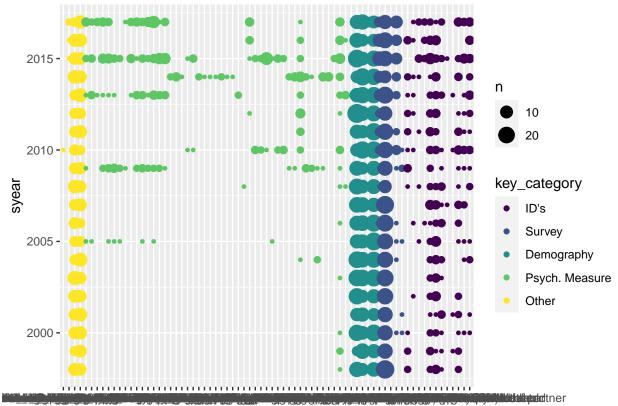
### empty plot

```
metaviz_long %>%
drop_na(value) %>%
mutate(key_name_label = factor(key_name_label),
    order = as.numeric(key_category),
    key_name_label = fct_reorder(key_name_label, desc(order))) %>%
ggplot(aes(key_name_label, syear, col = key_category))
```



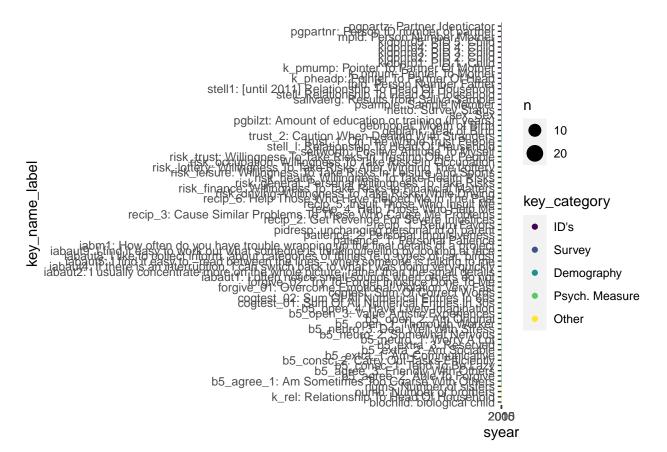
## key\_name\_label

with data points



key\_name\_label

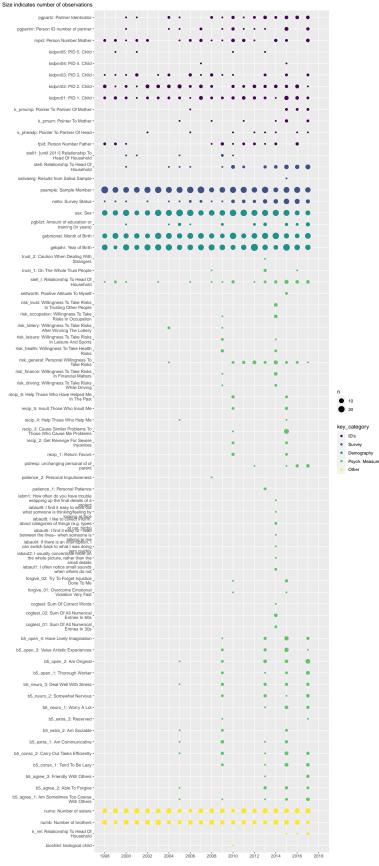
### flip the axis



#### final plot

```
metaviz_long %>%
  drop_na(value) %>%
  mutate(key_name_label = factor(key_name_label),
         order = as.numeric(key category),
         key_name_label = fct_reorder(key_name_label, desc(order))) %>%
  ggplot(aes(key_name_label, syear, col = key_category)) +
  geom_count() +
  coord_flip() +
  theme(legend.position = "right",
       plot.title.position = "plot") + #so cool <3)</pre>
  guides(col = guide_legend(ncol = 1)) +
  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 selected SOEP variables from 1998 – 2018

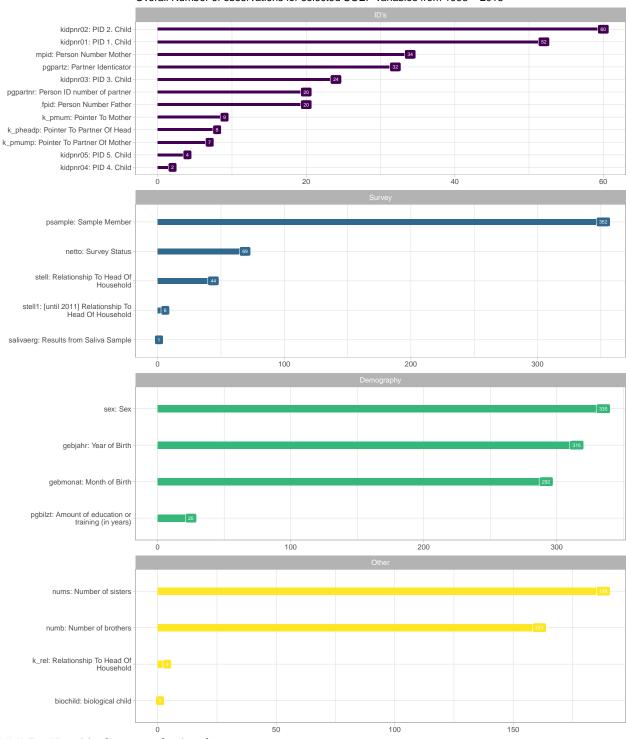


#### Overall

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 = "
```



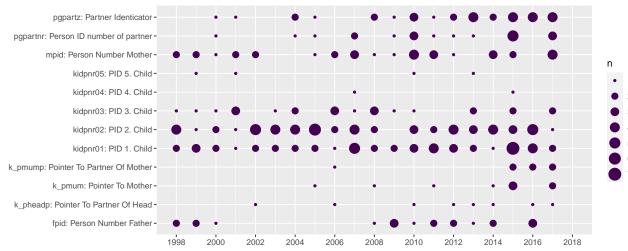


## By Variable Category  $\{.{\rm tabset}\}$ 

## By Year

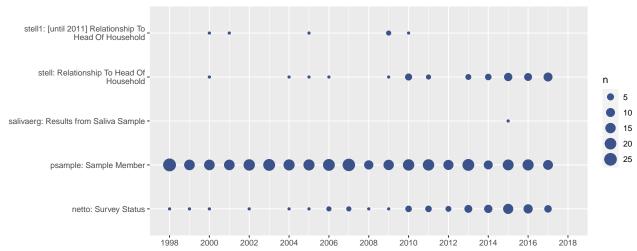
```
metaviz_long %>%
drop_na(value) %>%
filter(key_category == "ID's") %>%
```

# Number of observations for selected SOEP variables from 1998 – 2018 Size indicates number of observations



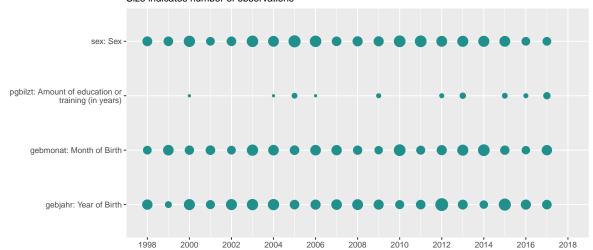
ID's

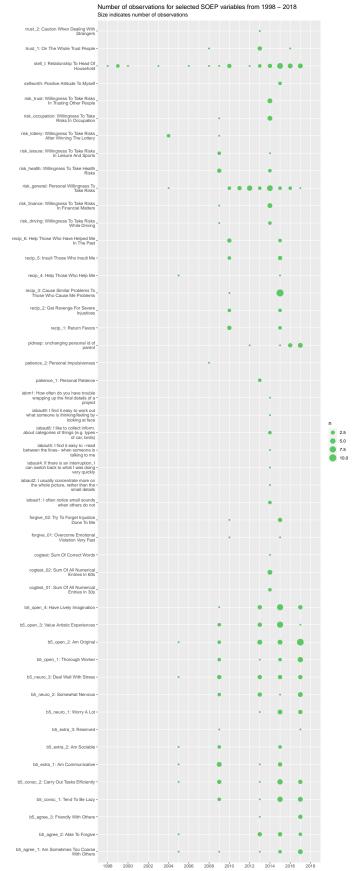
# Number of observations for selected SOEP variables from 1998 – 2018 Size indicates number of observations



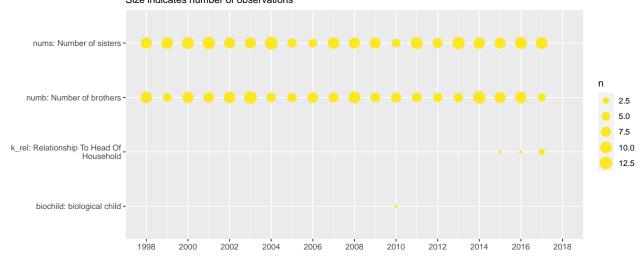
#### Survey

Number of observations for selected SOEP variables from 1998 – 2018 Size indicates number of observations





# Number of observations for selected SOEP variables from 1998 – 2018 Size indicates number of observations



## Supplement

#### resources

Other

- $\bullet \ \ row\ names\ to\ column:\ https://stackoverflow.com/questions/29511215/convert-row-names-into-first-column$
- age categories: https://ggplot2.tidyverse.org/reference/cut interval.html
- $\hbox{ wrap label names: $https://stackoverflow.com/questions/21878974/auto-wrapping-of-labels-via-labeller-label-wrap-in-ggplot 2 } \\$