

Analysis Component Group E

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```
NewYork_SanFrancisco_data <- read_csv("data/NewYork_SanFrancisco_data.csv", show_col_types = FALSE)

## New names:
## * ' ' -> '...1'

#Selecting Variables (there is way too many of them to run ggpairs on all of them)

NewYork_SanFrancisco_data <- NewYork_SanFrancisco_data %>%
  mutate(CSA_Name_ABBREV = gsub("New York-Newark, NY-NJ-CT-PA", "NY", CSA_Name)) %>%
  mutate(CSA_Name_ABBREV = gsub("San Jose-San Francisco-Oakland, CA", "SF", CSA_Name))

# Remove leading and trailing whitespace
NewYork_SanFrancisco_data$CSA_Name_ABBREV <- trimws(NewYork_SanFrancisco_data$CSA_Name_ABBREV)

# Replace "New York-Newark, NY-NJ-CT-PA" with "NY"
NewYork_SanFrancisco_data$CSA_Name_ABBREV <- gsub("New York-Newark, NY-NJ-CT-PA", "NY", NewYork_SanFrancisco_data$CSA_Name_ABBREV)

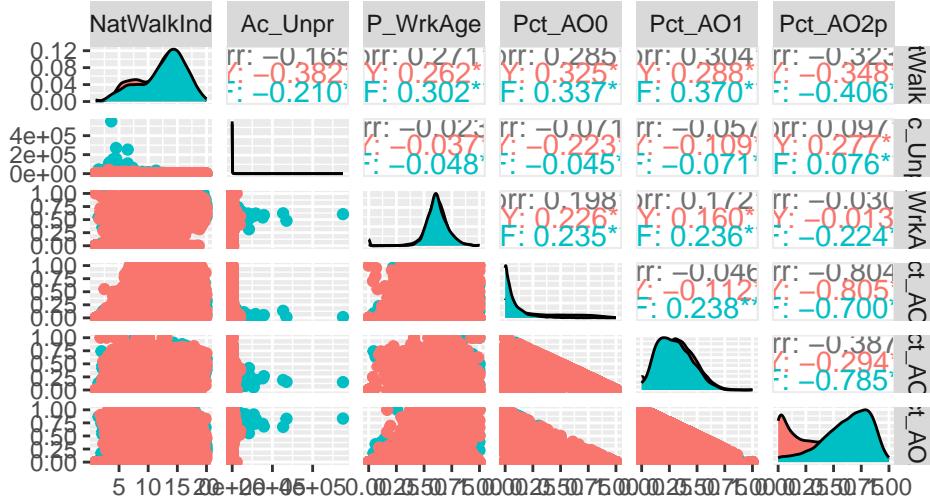
# Replace "San Jose-San Francisco-Oakland, CA" with "SF"
NewYork_SanFrancisco_data$CSA_Name_ABBREV <- gsub("San Jose-San Francisco-Oakland, CA", "SF", NewYork_SanFrancisco_data$CSA_Name_ABBREV)

NY_SF_focus <- NewYork_SanFrancisco_data %>%
  select(NatWalkInd, CSA_Name_ABBREV, Ac_Unpr, P_WrkAge, P_WrkAge, Pct_A00, Pct_A01, Pct_A02p, R_LowWag)

ggpairs(NY_SF_focus[, c(1, 3:7)],
       aes(color = NY_SF_focus$CSA_Name_ABBREV),
       title = "Scatterplot marix of NatWalkability Index Grouped by city",
       subtitle = "Using the first 4 potential predictors")

## Warning in warn_if_args_exist(list(...)): Extra arguments: "subtitle" are being
## ignored. If these are meant to be aesthetics, submit them using the 'mapping'
## variable within ggpairs with ggplot2::aes or ggplot2::aes_string.
```

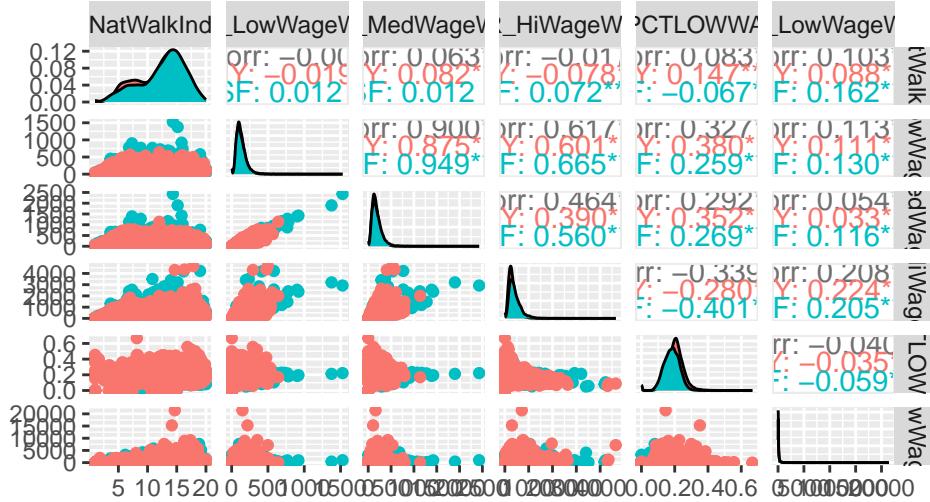
Scatterplot marix of NatWalkability Index Grouped by city



```
ggpairs(NY_SF_focus[, c(1, 8:12)],
       aes(color = NY_SF_focus$CSA_Name_ABBREV),
       title = "Scatterplot marix of NatWalkability Index Grouped by city",
       subtitle = "Using the next 5 potential predictors")
```

Warning in warn_if_args_exist(list(...)): Extra arguments: "subtitle" are being
ignored. If these are meant to be aesthetics, submit them using the 'mapping'
variable within ggpairs with ggplot2::aes or ggplot2::aes_string.

Scatterplot marix of NatWalkability Index Grouped by city

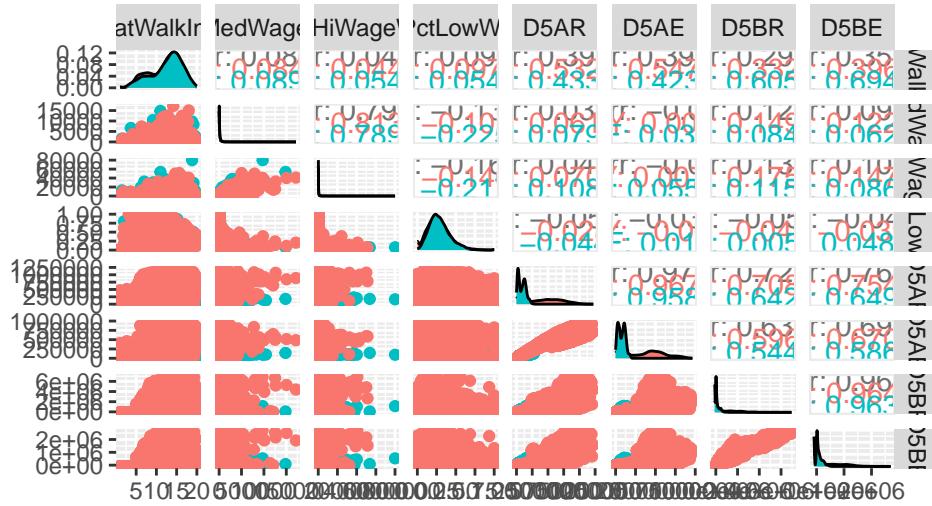


```
ggpairs(NY_SF_focus[, c(1, 13:19)],
       aes(color = NY_SF_focus$CSA_Name_ABBREV),
       title = "Scatterplot marix of NatWalkability Index Grouped by city",
       subtitle = "Using the following 5 potential predictors")
```

Warning in warn_if_args_exist(list(...)): Extra arguments: "subtitle" are being

```
## ignored. If these are meant to be aesthetics, submit them using the 'mapping'
## variable within ggpairs with ggplot2::aes or ggplot2::aes_string.
```

Scatterplot marix of NatWalkability Index Grouped by c



```
ggpairs(NY_SF_focus[, c(1, 20:24)],
       aes(color = NY_SF_focus$CSA_Name_ABBREV),
       title = "Scatterplot marix of NatWalkability Index Grouped by city",
       subtitle = "Using the last 4 potential predictors")
```

```
## Warning in warn_if_args_exist(list(...)): Extra arguments: "subtitle" are being
## ignored. If these are meant to be aesthetics, submit them using the 'mapping'
## variable within ggpairs with ggplot2::aes or ggplot2::aes_string.
```

Scatterplot marix of NatWalkability Index Grouped by city

