Household Economy

coop711 2017-05-19

Data

```
library(knitr)
load("./hh_econ_10th_en.RData")
```

ggplots

Data Reshaping

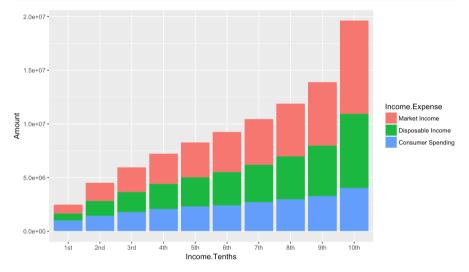
```
library(reshape2)
dimnames(hh.econ.10th.11.2) <- list("Income.Expense" = rownames(hh.econ.10th.11.2),
"Income.Tenths" = colnames(hh.econ.10th.11.2))
kable(hh.econ.10th.melt <- melt(hh.econ.10th.11.2, value.name = "Amount"))</pre>
```

Market Income 1st 83138 Disposable Income 1st 64678 Consumer Spending 1st 100034 Market Income 2nd 167819 Disposable Income 2nd 138967 Consumer Spending 2nd 143696 Market Income 3rd 228948 Disposable Income 3rd 189801 Consumer Spending 3rd 176386 Market Income 4th 281130
Consumer Spending 1st 100034 Market Income 2nd 167819 Disposable Income 2nd 138967 Consumer Spending 2nd 143696 Market Income 3rd 228949 Disposable Income 3rd 189801 Consumer Spending 3rd 176386
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Market Income 3rd 228948 Disposable Income 3rd 189801 Consumer Spending 3rd 176386
Disposable Income 3rd 189801 Consumer Spending 3rd 176386
Consumer Spending 3rd 176386
Market Income 4th 281130
Disposable Income 4th 233829
Consumer Spending 4th 207473
Market Income 5th 326863
Disposable Income 5th 270795
Consumer Spending 5th 230221
Market Income 6th 374202
Disposable Income 6th 309820
Consumer Spending 6th 239904

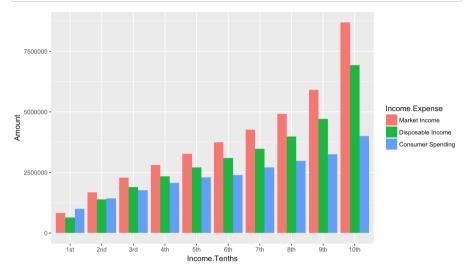
Income.Expense	Income.Tenths	Amount
Market Income	7th	4268755
Disposable Income	7th	3476596
Consumer Spending	7th	2706587
Market Income	8th	4913083
Disposable Income	8th	3988747
Consumer Spending	8th	2977272
Market Income	9th	5914052
Disposable Income	9th	4713301
Consumer Spending	9th	3251683
Market Income	10th	8692134
Disposable Income	10th	6930156
Consumer Spending	10th	4011523

ggplots step by step

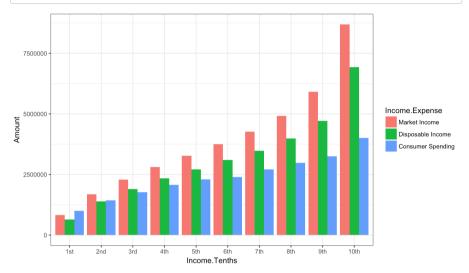
```
library(ggplot2)
# source("./theme_kr_HCR.R")
gg.title <- "Income and Consumer Expenditure for each Tenth (2011 4/4)"
x.lab <- "Income Tenth"
y.lab <- "Amount in Thousand Won"
Income.Amount <- hh.econ.10th.melt[hh.econ.10th.melt$Income.Expense == "Market Income", "Amount"]
# legend.lab <- c("Market Income", "Consumer Spending", "Disposable Income")
# (g1 <- ggplot(hh.econ.melt, aes(x = Income.Fifth, y = Amount, fill = Income.Expense, colour = Income.Expense, group = Income.Expense)) +
# geom_bar(stat = "identity"))
# (g1 <- ggplot(hh.econ.melt, aes(x = Income.Fifth, y = Amount, fill = Income.Expense, colour = Income.Expense, group = Income.Expense)) +
# geom_bar(stat = "identity", position = "dodge"))
(g1 <- ggplot(hh.econ.10th.melt, aes(x = Income.Tenths, y = Amount, fill = Income.Expense)) +
geom_bar(stat = "identity", position = "dodge"))</pre>
```



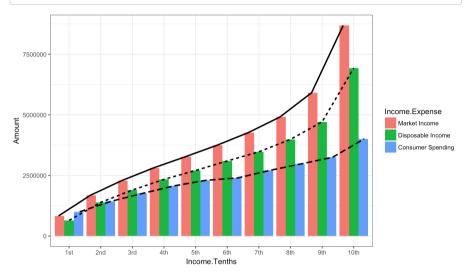
```
(g1 <- ggplot(hh.econ.10th.melt, aes(x = Income.Tenths, y = Amount, fill = Income.Exp
ense)) +
  geom_bar(stat = "identity", position = "dodge"))</pre>
```



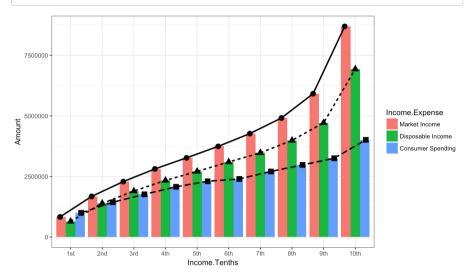
(g2 <- g1 + theme_bw())



(g3.1 <- g2 +
 geom_line(aes(group = Income.Expense, linetype = Income.Expense), position = positi
on_dodge(width = 1.0), size = 1, na.rm = TRUE, show.legend = FALSE))</pre>



(g3.2 <- g3.1 +
 geom_point(aes(group = Income.Expense, shape = Income.Expense), position = position
 _dodge(width = 1.0), size = 3, stroke = 1.2, na.rm = TRUE, show.legend = FALSE))</pre>

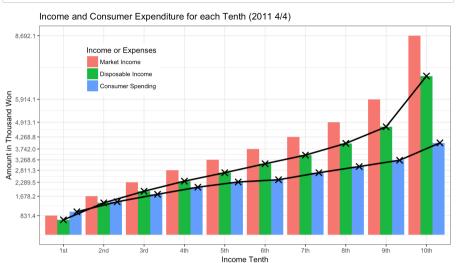


Income and Consumer Expenditure for each Tenth (2011 4/4) 8,692.1 No. 5,914.1 Let us a service of the servic

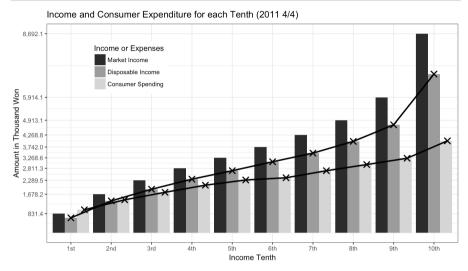
Income Tenth

8th

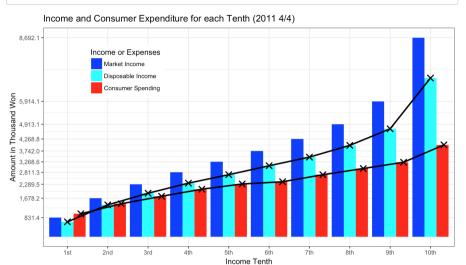
```
(g5 <- g4 + theme(legend.position = c(0.2, 0.8)))
```



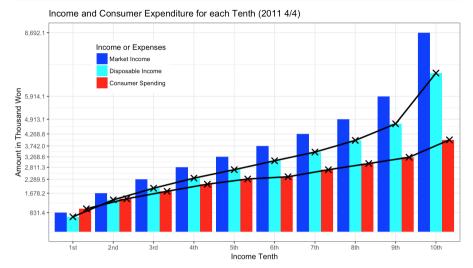
```
(g6 <- g5 +
    scale_fill_grey(start = 1/6, end = 5/6) +
    scale_colour_grey(start = 1/6, end = 5/6))</pre>
```



```
(g7 <- g5 +
scale_fill_manual(values = c("blue", "cyan", "red")))</pre>
```







ggsave("../pics/no_trickle_down_effects_10th.png")

Saving 9 x 5.1 in image