US Top Income Share vs Tax Rates (1913 ~ 2014)

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Data Preparation

준비한 자료는 E. Saez 교수의 홈페이지 (http://elsa.berkeley.edu/~saez/)에 있는 `TabFig2014prel.xls` 와 Tax Foundation (http://taxfoundation.org/)에서 제공하는 자료를 손봐서 불러들인 것이다.

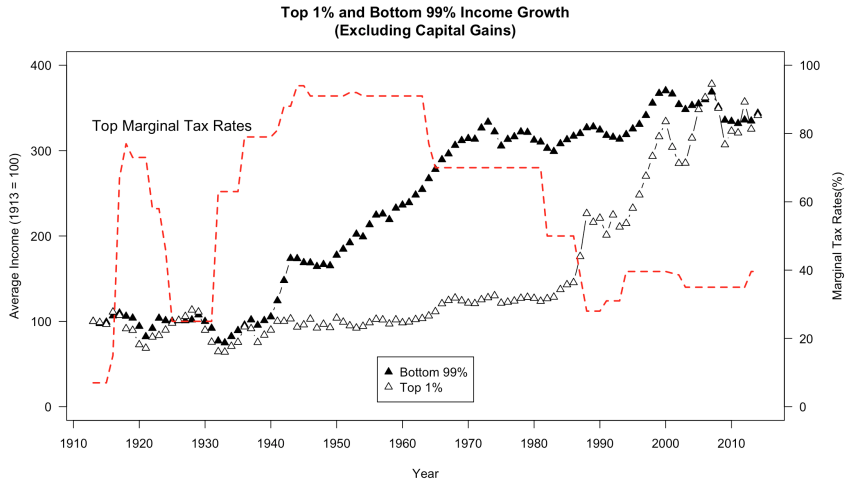
이 중에서 소득 상위 1%(`P99_100`)몫과 최고세율(Marginal Tax Rates) 간의 관계를 살펴보자

```
png(file = "../pics/US_Top_Income_Share_vs_MTR_72dpi_en.png", width = 864, heig
ht = 486)
# png(file = "../pics/US_Top_Income_Share_vs_MTR_300dpi_en.png", width = 1280,
height = 720)
par(mar = c(5, 6, 4, 6) + 0.1)
plot(P99_100 ~ Year, data = top.income_tax, type = "b", pch = 17, axes = FALSE,
ann = FALSE, ylim = c(5, 25))
box()
axis(side = 1, at = seq(1910, 2010, by = 10), labels = seq(1910, 2010, by = 1
0))
axis(side = 2, at = seq(5, 25, by = 5), labels = seq(5, 25, by = 5), las = 1, y
lab = "Top Income Share")
mtext("Top Income Share(%)", side = 2, line = 3)
par(new = TRUE)
plot(Marginal ~ Year, data = top.income_tax, type ="l", lty = 2, lwd = 2, col =
"red", axes = FALSE, ann = FALSE, ylim = c(0, 100))
axis(side = 4, at = seq(0, 100, by = 20), labels = seq(0, 100, by = 20), las =
1)
mtext("Marginal Tax Rates(%)", side = 4, line = 3)
title(main = "Top 1% Income Share and Top Marginal Tax Rate", xlab = "Year")
text(x = 1980, y = 75, labels = "Top Marginal Tax Rates", cex = 1.2)
text(x = 1960, y = 15, labels = "Top 1% Income Shares", cex = 1.2)
# dev.copy(png, file ="../pics/US_Top_Income_Share_vs_MTR_en.png", width = 960,
height = 540)
dev.off()
```

```
## quartz_off_screen
##                 2
```

상위 1%의 소득 증가폭과 하위 99%의 소득 증가폭(자본소득 제외)을 최고세율의 변화와 함께 비교

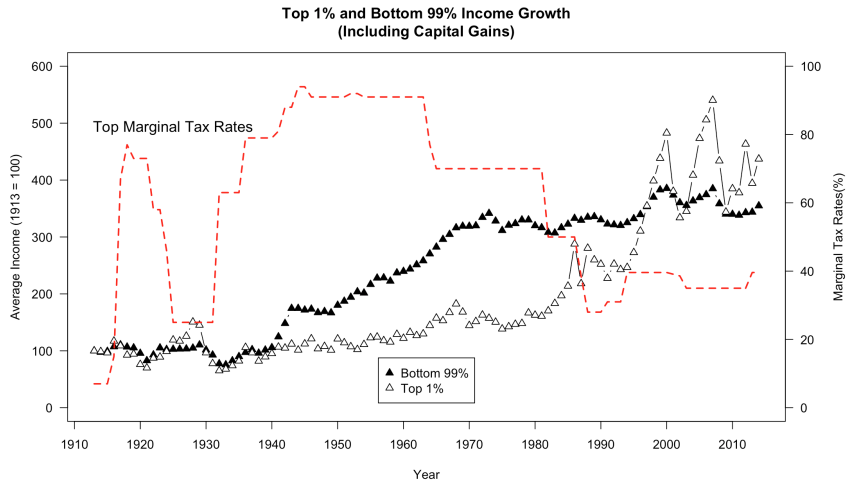
```
# png(file = "../pics/US_Top_Income_Share_vs_MTR_72dpi_en.png", width = 864, he
ight = 486)
# png(file = "../pics/US_Top_Income_Share_vs_MTR_300dpi_en.png", width = 1280,
height = 720)
par(mar = c(5, 6, 4, 6) + 0.1)
plot(Rate_99 ~ Year, data = top.income_tax, type = "b", pch = 24, col = "blac
k", bg = "black", axes = FALSE, ann = FALSE, ylim = c(0, 400))
lines(Rate_1 ~ Year, data = top.income_tax, type = "b", pch = 24, col = "blac
k", bg = "white")
box()
axis(side = 1, at = seq(1910, 2010, by = 10), labels = seq(1910, 2010, by = 1
0))
axis(side = 2, at = seq(0, 400, by = 100), labels = seq(0, 400, by = 100), las
= 1)
mtext("Average Income (1913 = 100)", side = 2, line = 3)
par(new = TRUE)
plot(Marginal ~ Year, data = top.income_tax, type ="l", lty = 2, col = "red", l
wd = 2, axes = FALSE, ann = FALSE, ylim = c(0, 100))
axis(side = 4, at = seq(0, 100, by = 20), labels = seq(0, 100, by = 20), las =
1)
mtext("Marginal Tax Rates(%)", side = 4, line = 3)
title(main = "Top 1% and Bottom 99% Income Growth\n(Excluding Capital Gains)",
xlab = "Year")
legend("bottom", legend = c("Bottom 99%", "Top 1%"), pch = 24, col = "black", p
t.bg = c("black", "white"), inset = 0.05)
text(x = 1925, y = 82, labels = "Top Marginal Tax Rates", cex = 1.2)
```




```
# dev.copy(png, file ="../pics/US_Income_Growth_vs_MTR_en.png", width = 960, he
ight = 540)
# dev.off()
```

상위 1%의 소득 증가폭과 하위 99%의 소득 증가폭(자본소득 포함)을 최고세율의 변화와 함께 비교

```
# png(file = "../pics/US_Income_Growth_vs_MTR_72dpi_K.png", width = 864, height
= 486)
# png(file = "../pics/US_Income_Growth_vs_MTR_300dpi_K.png", width = 1280, heig
ht = 720)
par(mar = c(5, 6, 4, 6) + 0.1)
plot(Rate_99_K ~ Year, data = top.income_tax, type = "b", pch = 24, col = "blac
k", bg = "black", axes = FALSE, ann = FALSE, ylim = c(0, 600))
lines(Rate_1_K ~ Year, data = top.income_tax, type = "b", pch = 24, col = "blac
k", bg = "white")
box()
axis(side = 1, at = seq(1910, 2010, by = 10), labels = seq(1910, 2010, by = 1
0))
axis(side = 2, at = seq(0, 600, by = 100), labels = seq(0, 600, by = 100), las
= 1)
mtext("Average Income (1913 = 100)", side = 2, line = 3)
par(new = TRUE)
plot(Marginal ~ Year, data = top.income_tax, type ="l", lty = 2, col = "red", l
wd = 2, axes = FALSE, ann = FALSE, ylim = c(0, 100))
axis(side = 4, at = seq(0, 100, by = 20), labels = seq(0, 100, by = 20), las =
1)
mtext("Marginal Tax Rates(%)", side = 4, line = 3)
title(main = "Top 1% and Bottom 99% Income Growth\n(Including Capital Gains)",
xlab = "Year")
legend("bottom", legend = c("Bottom 99%", "Top 1%"), pch = 24, col = "black", p
t.bg = c("black", "white"), inset = 0.05)
text(x = 1925, y = 82, labels = "Top Marginal Tax Rates", cex = 1.2)
```




```
# dev.copy(png, file ="../pics/US_Income_Growth_vs_MTR_K.png", width = 960, hei
ght = 540)
# dev.off()
```