# US Top Income Share 1913 ~ 2014

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## Data Preparation

준비한 자료는 E. Saez 교수의 홈페이지 (http://elsa.berkeley.edu/~saez/)에 있는 `TabFig2014prel.xls`
(http://eml.berkeley.edu//~saez/TabFig2014prel.xls) 를 손봐서 불러들인 것이다.

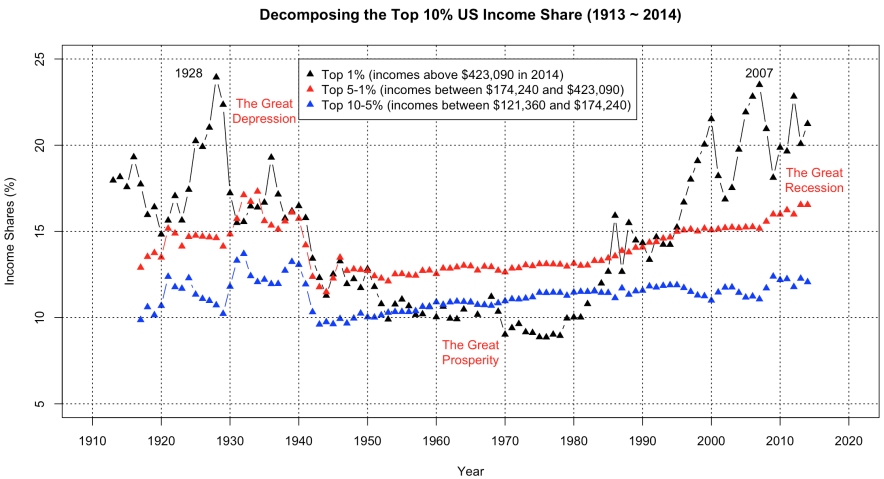| | Year | P90_100 | P95_100 | P99_100 | P99.5_100 | P99.9_100 | P99.99_100 | P90_95 | P95_99 | P99_99.5 | P99.5_99.9 | P99.9_99.99 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 11 | 1923 | 41 | 30 | 15.6 | 11.9 | 5.9 | 2.00 | 12 | 14 | 3.7 | 6.0 | 3.9 |
| 12 | 1924 | 44 | 32 | 17.4 | 13.4 | 6.8 | 2.32 | 12 | 15 | 4.0 | 6.6 | 4.5 |
| 13 | 1925 | 46 | 35 | 20.2 | 15.9 | 8.5 | 3.31 | 11 | 15 | 4.4 | 7.3 | 5.2 |
| 14 | 1926 | 46 | 35 | 19.9 | 15.6 | 8.5 | 3.36 | 11 | 15 | 4.4 | 7.1 | 5.1 |
| 15 | 1927 | 47 | 36 | 21.0 | 16.6 | 9.2 | 3.75 | 11 | 15 | 4.4 | 7.3 | 5.5 |
| 16 | 1928 | 49 | 39 | 23.9 | 19.4 | 11.5 | 5.02 | 11 | 15 | 4.5 | 7.9 | 6.5 |
| 17 | 1929 | 47 | 36 | 22.4 | 18.1 | 10.9 | 4.99 | 10 | 14 | 4.3 | 7.2 | 5.9 |
| 18 | 1930 | 44 | 32 | 17.2 | 13.2 | 7.1 | 2.84 | 12 | 15 | 4.0 | 6.1 | 4.2 |
| 19 | 1931 | 45 | 31 | 15.5 | 11.6 | 5.9 | 2.25 | 13 | 16 | 3.9 | 5.7 | 3.6 |
| 20 | 1932 | 46 | 33 | 15.6 | 11.6 | 6.0 | 1.99 | 14 | 17 | 3.9 | 5.7 | 4.0 |
| 41 | 1953 | 32 | 22 | 9.9 | 7.0 | 3.1 | 0.97 | 10 | 12 | 2.9 | 4.0 | 2.1 |
| 42 | 1954 | 34 | 23 | 10.8 | 7.7 | 3.5 | 1.17 | 10 | 13 | 3.1 | 4.2 | 2.3 |
| 43 | 1955 | 34 | 24 | 11.1 | 8.0 | 3.7 | 1.32 | 10 | 13 | 3.1 | 4.2 | 2.4 |
| 44 | 1956 | 33 | 23 | 10.7 | 7.7 | 3.5 | 1.20 | 10 | 12 | 3.0 | 4.2 | 2.3 |
| 45 | 1957 | 33 | 23 | 10.2 | 7.2 | 3.2 | 1.05 | 10 | 12 | 2.9 | 4.0 | 2.1 |
| 46 | 1958 | 34 | 23 | 10.2 | 7.3 | 3.2 | 1.08 | 11 | 13 | 2.9 | 4.0 | 2.1 |
| 47 | 1959 | 34 | 23 | 10.7 | 7.7 | 3.5 | 1.19 | 11 | 13 | 2.9 | 4.3 | 2.3 |
| 48 | 1960 | 33 | 23 | 10.0 | 7.1 | 3.2 | 1.17 | 11 | 13 | 2.9 | 3.9 | 2.1 |
| 49 | 1961 | 34 | 24 | 10.6 | 7.7 | 3.6 | 1.38 | 11 | 13 | 3.0 | 4.0 | 2.3 |
| 50 | 1962 | 34 | 23 | 9.9 | 7.1 | 3.2 | 1.16 | 11 | 13 | 2.9 | 3.9 | 2.0 |
| 51 | 1963 | 34 | 23 | 9.9 | 7.0 | 3.1 | 1.15 | 11 | 13 | 2.9 | 3.9 | 2.0 |
| 91 | 2003 | 45 | 33 | 17.5 | 13.7 | 7.9 | 3.49 | 12 | 15 | 3.9 | 5.8 | 4.4 |
| 92 | 2004 | 46 | 35 | 19.8 | 15.7 | 9.5 | 4.34 | 11 | 15 | 4.0 | 6.3 | 5.1 |
| 93 | 2005 | 48 | 37 | 21.9 | 17.8 | 11.0 | 5.13 | 11 | 15 | 4.1 | 6.8 | 5.9 |
| 94 | 2006 | 49 | 38 | 22.8 | 18.6 | 11.6 | 5.46 | 11 | 15 | 4.2 | 7.0 | 6.1 |
| 95 | 2007 | 50 | 39 | 23.5 | 19.3 | 12.3 | 6.04 | 11 | 15 | 4.2 | 7.0 | 6.2 |
| 96 | 2008 | 48 | 37 | 20.9 | 16.9 | 10.4 | 5.03 | 12 | 16 | 4.1 | 6.5 | 5.4 |
| 97 | 2009 | 46 | 34 | 18.1 | 14.2 | 8.3 | 3.89 | 12 | 16 | 4.0 | 5.9 | 4.4 |
| 98 | 2010 | 48 | 36 | 19.9 | 15.8 | 9.7 | 4.78 | 12 | 16 | 4.0 | 6.2 | 4.9 |
| 99 | 2011 | 48 | 36 | 19.6 | 15.6 | 9.3 | 4.32 | 12 | 16 | 4.1 | 6.3 | 4.9 |
| 100 | 2012 | 51 | 39 | 22.8 | 18.6 | 11.7 | 5.81 | 12 | 16 | 4.2 | 6.9 | 5.9 |
| 101 | 2013 | 49 | 37 | 20.1 | 15.9 | 9.5 | 4.48 | 12 | 17 | 4.2 | 6.4 | 5.0 |
| 102 | 2014 | 50 | 38 | 21.2 | 17.0 | 10.3 | 4.89 | 12 | 17 | 4.3 | 6.7 | 5.4 |

## Top 10%의 소득점유율

소득 상위 10%( `P90_100` )의 소득점유율 변화



Top 10% US Income Share (1917 ~ 2014)
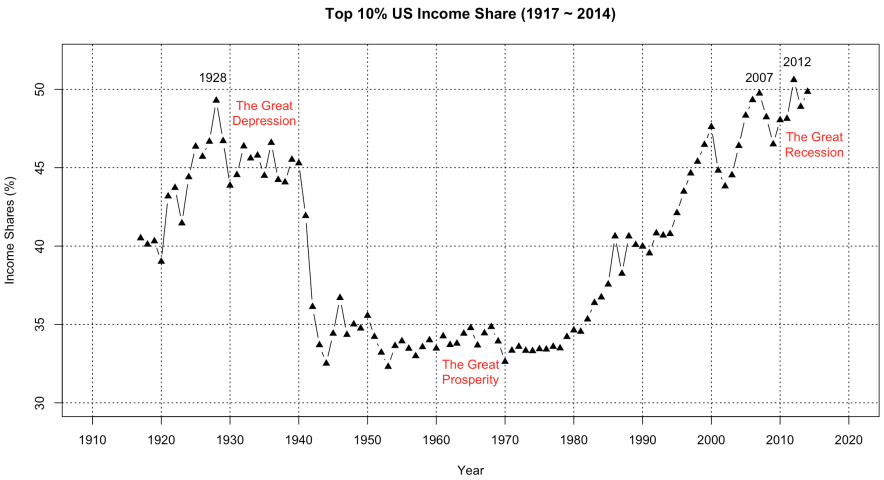
## Top 10% 분할

소득 상위 10%( `P90_100` )를 상위 1%( `P99_100` ), 차상위 4%( `P95_99` ), 차차상위 5%( `P90_95` )로 분할



Decomposing the Top 10% US Income Share (1913 ~ 2014)

## Top 1% 분할

소득 상위 1%( `P99_100` )를 상위 0.1%( `P99.9_100` ), 차상위 0.4%( `P99.5_99.9` ), 차차상위 0.5%( `P99_99.5` )로 분할

**Decomposing the Top 1% US Income Share (1913 ~ 2014)**

Legend:
- ▲ Top 0.1% (incomes above $1,894,100 in 2014)
- ▲ Top 0.5-0.1% (incomes between $646,550 and $1,894,100)
- ▲ Top 1-0.5% (incomes between $423,090 and $646,550)
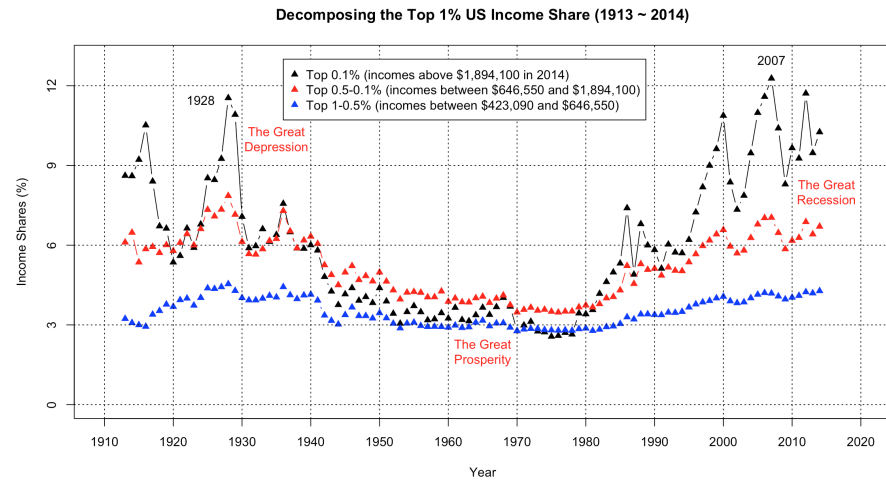
## Top 0.1% 분할

소득 상위 0.1%( `P99.9_100` )를 상위 0.01%( `P99.99_100` )와 다음 0.09%( `P99_9.99.99` )로 분할



**Decomposing the Top 0.1% US Income Share (1913 ~ 2014)**

Legend:
- ▲ Top 0.01% (incomes above $9,497,900 in 2014)
- ▲ Top 0.1-0.01% (incomes between $1,894,100 and $9,497,900)
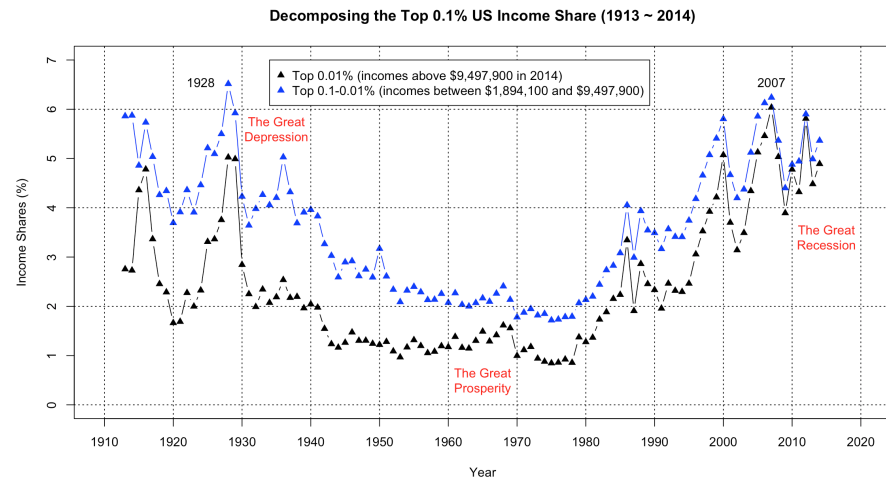
## ggplot

# Data Reshaping

`reshape2` 패키지를 이용하여 wide format 을 long format 으로 변환하고 작업

## Top 10%의 소득점유율(%)



**Top 10% US Income Share (1917 ~ 2014)**

## Top 10%의 분할



**Decomposing the Top 10% US Income Share (1913 ~ 2014)**

Legend:
- ▲ Top 1% (incomes above $423,090 in 2014)
- ▲ Top 5-1% (incomes between $174,240 and $423,090)
- ▲ Top 10-5% (incomes between $121,360 and $174,240)
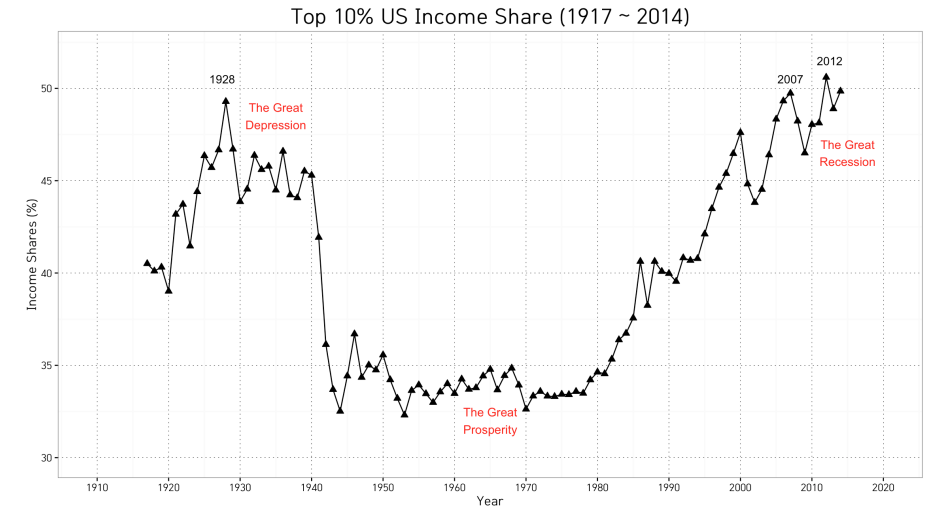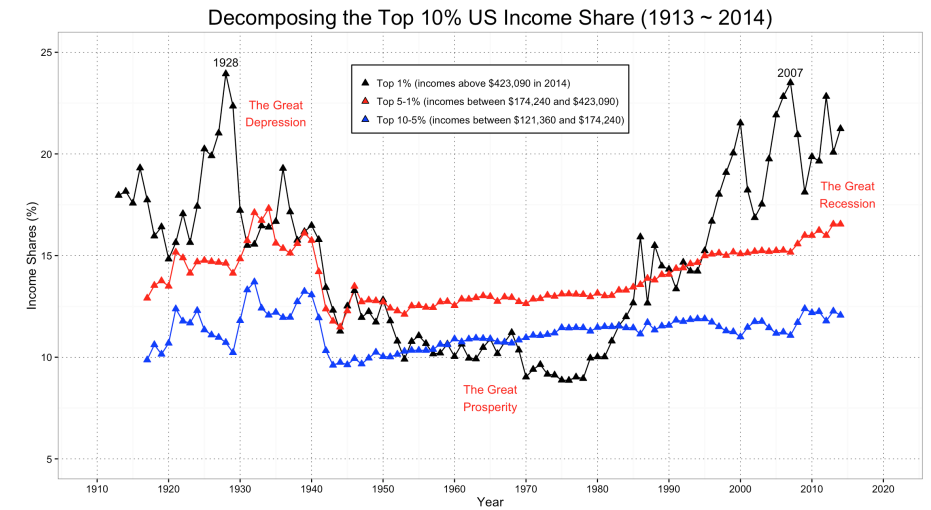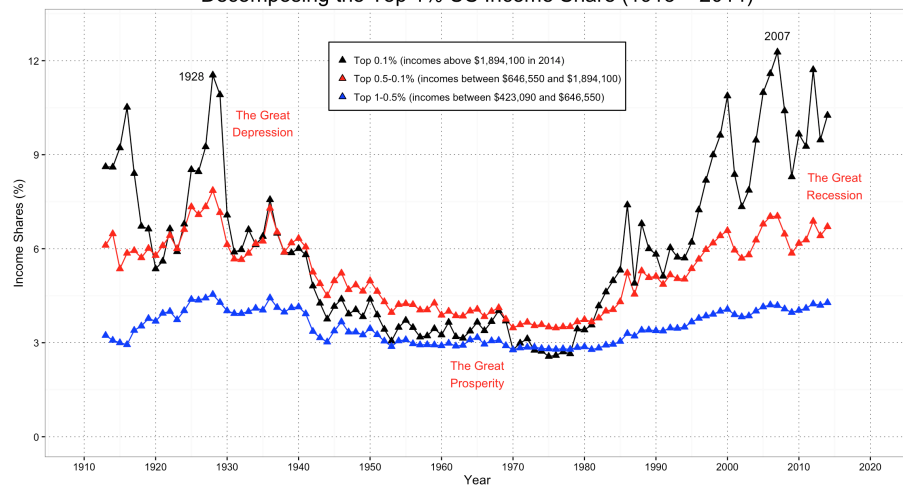
## Top 1%의 분할

Decomposing the Top 1% US Income Share (1913 ~ 2014)

**Top 0.1%의 분할**



Decomposing the Top 0.1% US Income Share (1913 ~ 2014)