Productivity vs Hourly Compensation: ggplot

coop711 2017-05-19

ggplots

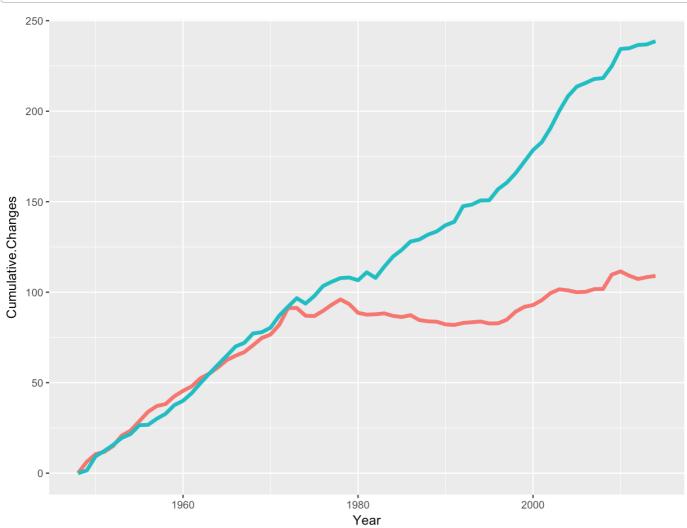
Data Reshaping

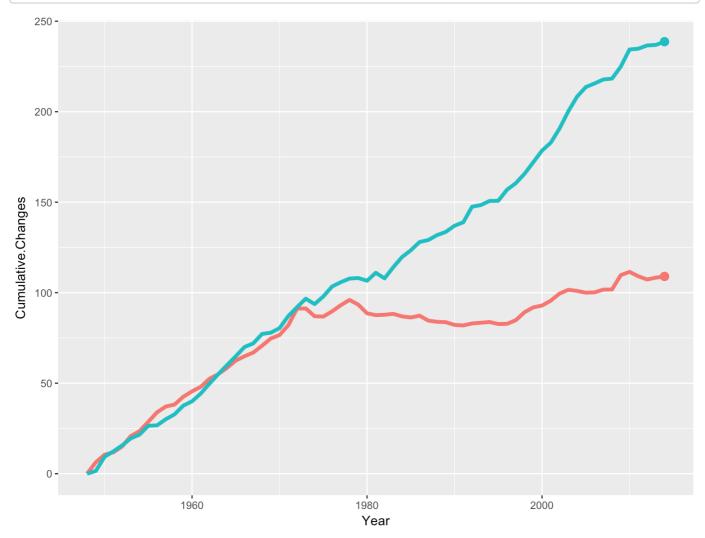
```
library(reshape2)
prod.wage.melt <- melt(prod.wage, id.vars = "Year", measure.variables = c("Hourly_com
pensation", "Net_productivity"), variable.name = "Prod.or.Compensation", value.name =
    "Cumulative.Changes")
prod.wage.2.melt <- melt(prod.wage.2, id.vars = "Year", measure.variables = c("Real_m
edian_hourly_compensation", "Real_average_hourly_compensation", "Net_productivity"),
variable.name = "Prod.or.Compensation", value.name = "Cumulative.Changes")
str(prod.wage.melt)</pre>
```

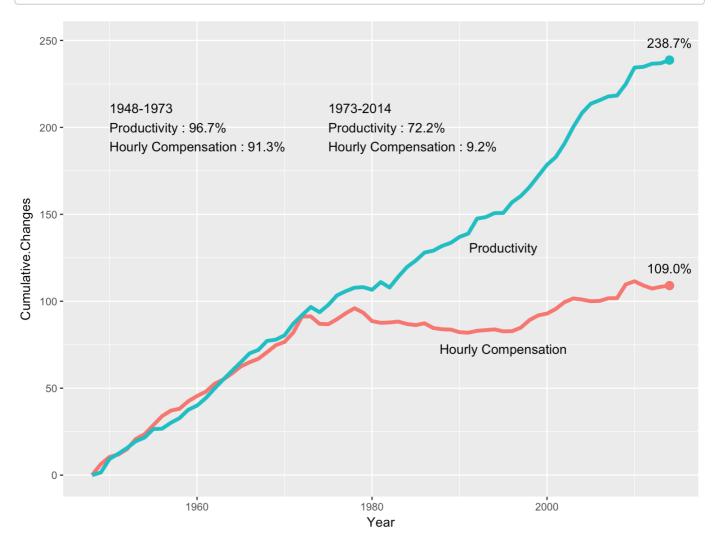
```
str(prod.wage.2.melt)
```

Net Productivity and Hourly Compensation

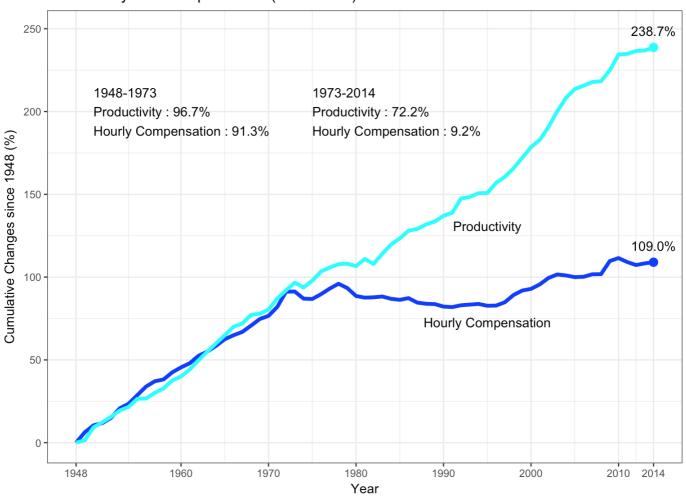
```
library(ggplot2)
par(family = "HCR Dotum LVT")
main.title <- "Productivity and Compensation (1948-2014)"
x.lab <- "Year"</pre>
y.lab <- "Cumulative Changes since 1948 (%)"
var.lab <- c("Hourly Compensation", "Productivity")</pre>
legend.lab <- c("1948-1973\nProductivity : 96.7%\nHourly Compensation : 91.3%", "197</pre>
3-2014\nProductivity: 72.2%\nHourly Compensation: 9.2%")
end.df <- subset(prod.wage.melt, Year == 2014)</pre>
y1995.df <- subset(prod.wage.melt, Year == 1995)</pre>
text.lab <- paste(format(end.df$Cumulative.Changes, digits = 1, nsmall = 1), "%", sep
(g1 <- ggplot() +
  geom_line(data = prod.wage.melt, aes(x = Year,
                                         y = Cumulative.Changes,
                                         colour = Prod.or.Compensation),
            size = 1.5,
            show.legend = FALSE))
```





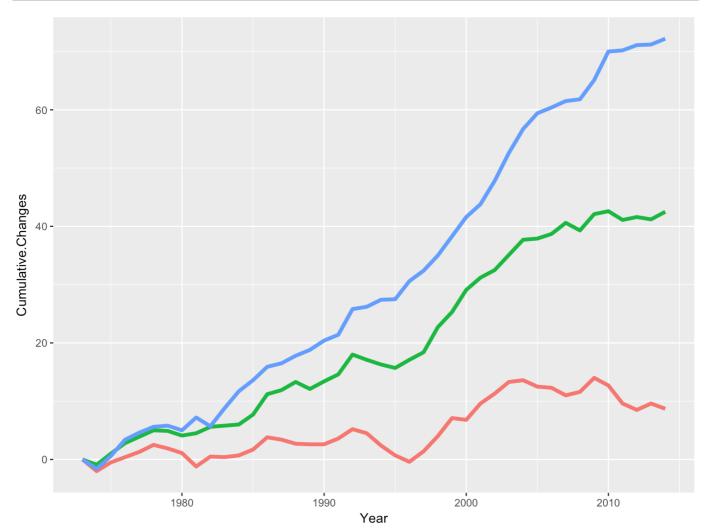


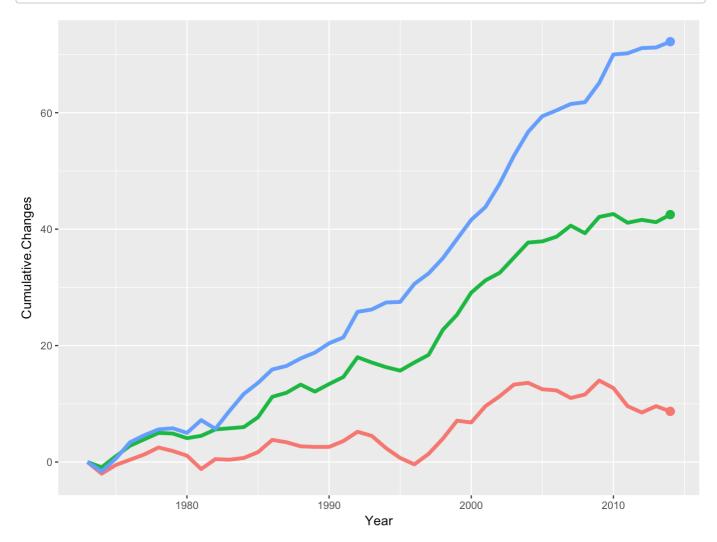
Productivity and Compensation (1948-2014)

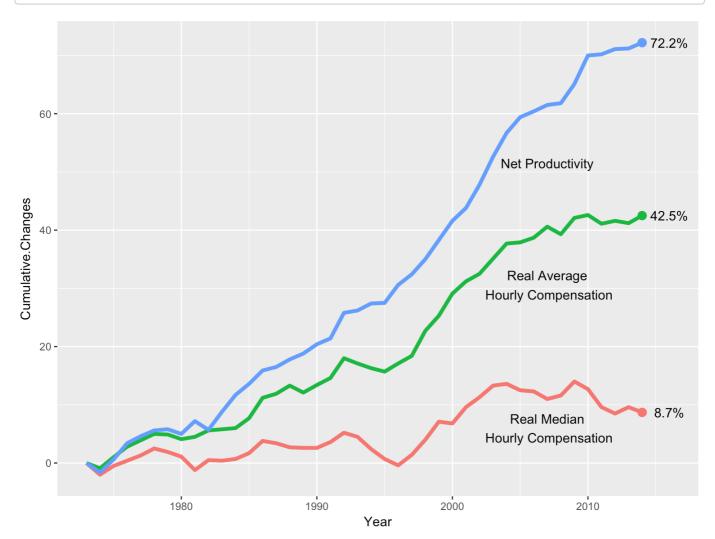


ggsave("../pics/Productivity_vs_Wages_ggplot.png", width = 8, height = 6)

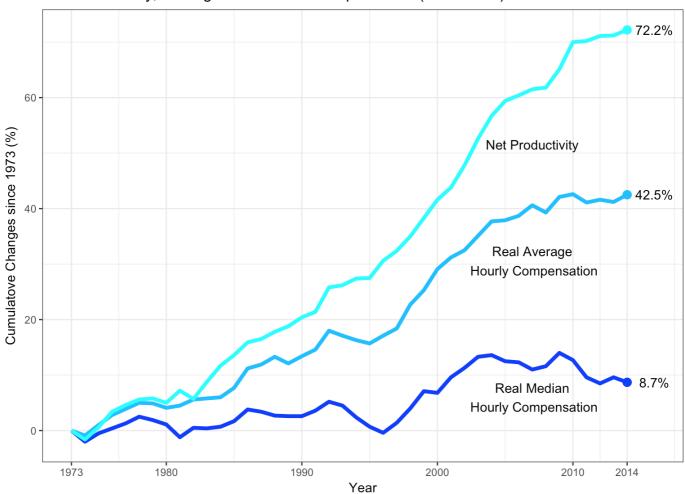
Net Productivity vs Average and Median Hourly Compensation







Net Productivity, Average and Median Compensation (1973-2014)



ggsave("../pics/Productivity_vs_Wages.2_ggplot.png", width = 8, height = 6)