Growth Accounting

Colin Pi 2018 6 3

Import Penn World Dataset

GDP per Worker and GDP per Capita

```
per_capita <- function(argument){
  outcome <- dataset_1 %>% na.omit() %>% filter(country == argument) %>%
    filter(year == max(year)) %>% group_by(country, year) %>%
    summarize(rgdpna_emp = rgdpna/emp, rgdpna_pc = rgdpna/pop)
  return(outcome)
}
gdp_per_capita <- lapply(c("Japan", "Republic of Korea", "United States"), per_capita) %>%
    bind_rows()
knitr::kable(gdp_per_capita)
```

country	year	rgdpna_emp	rgdpna_pc
Japan	2014	70729.18	36250.46
Republic of Korea	2014	66165.62	34539.55
United States	2014	111072.44	51620.79

Growth Accounting

country	Output GR	Physical Capital GR	Human Capital GR	Productivity GR
Republic of Korea	4.424827	6.014121	1.1155308	1.6764322
United States	1.781490	1.699390	0.5726488	0.8332611
Japan	3.731064	7.627504	0.6828883	0.7333041

knitr::kable(growth_rate[,c(1,6:8)])

country	Productivity's Share	Human Capital's Share	Physical Capital's Share
Republic of Korea	37.88696	16.80715	45.30589
United States	46.77326	21.42958	31.79716
Japan	19.65402	12.20185	68.14413