Influence of colonialism on today's economies

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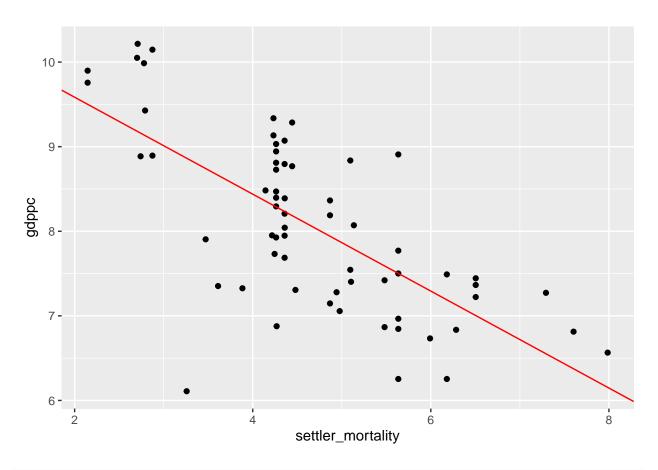
Abstract

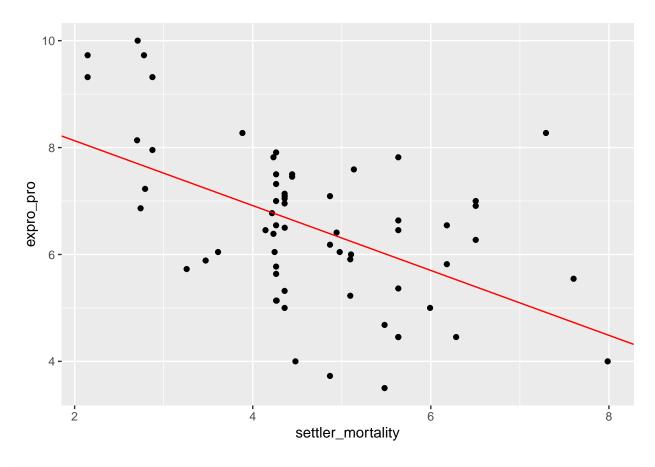
abstract

```
library(tidyverse)
## -- Attaching packages -----
## v ggplot2 3.2.1 v purrr 0.3.3
## v tibble 2.1.3 v dplyr 0.8.4
## v tidyr 1.0.2 v stringr 1.4.0
## v readr 1.3.1 v forcats 0.4.0
## -- Conflicts ----- tidyverse_conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag()
                      masks stats::lag()
library(dplyr)
library(janitor)
## Attaching package: 'janitor'
## The following objects are masked from 'package:stats':
##
##
       chisq.test, fisher.test
library(ggplot2)
library(haven)
data4 <- read_dta("C:/Users/faria/Desktop/INF2178/Problem Sets/problemset5/maketable4.dta")</pre>
excolonies <- tibble(country=data4$shortnam,</pre>
                       samples=data4$baseco,
                       dummy_africa=data4$africa,
                       dummy_asia=data4$asia,
                       dummy_neu=data4$rich4,
                       settler_mortality=data4$logem4,
                       expro_pro=data4$avexpr,
                       gdppc=data4$logpgp95,
                       gdppw=data4$loghjypl
```

)%>% subset(samples==1)

```
mortalgdp <- lm(gdppc~settler_mortality, data=excolonies)</pre>
summary(mortalgdp)
##
## Call:
## lm(formula = gdppc ~ settler_mortality, data = excolonies)
## Residuals:
##
      Min
                1Q Median
                               3Q
                                      Max
## -2.7545 -0.5386 0.1412 0.4607 1.4059
## Coefficients:
##
                    Estimate Std. Error t value Pr(>|t|)
                                0.36718 29.224 < 2e-16 ***
## (Intercept)
                    10.73057
## settler_mortality -0.57297
                                0.07616 -7.523 2.66e-10 ***
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
## Residual standard error: 0.7604 on 62 degrees of freedom
## Multiple R-squared: 0.4772, Adjusted R-squared: 0.4688
## F-statistic: 56.6 on 1 and 62 DF, p-value: 2.659e-10
mortalexpro <- lm(expro_pro~settler_mortality, data=excolonies)
summary(mortalexpro)
##
## Call:
## lm(formula = expro_pro ~ settler_mortality, data = excolonies)
## Residuals:
##
      Min
               1Q Median
                               30
## -2.6606 -0.9922 0.0280 0.8266 3.3566
##
## Coefficients:
##
                    Estimate Std. Error t value Pr(>|t|)
## (Intercept)
                      9.3414
                              0.6107 15.30 < 2e-16 ***
## settler_mortality -0.6068
                                 0.1267 -4.79 1.08e-05 ***
## Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
## Residual standard error: 1.265 on 62 degrees of freedom
## Multiple R-squared: 0.2701, Adjusted R-squared: 0.2584
## F-statistic: 22.95 on 1 and 62 DF, p-value: 1.077e-05
coef(mortalgdp)["settler_mortality"]/ coef(mortalexpro)["settler_mortality"]
## settler_mortality
##
          0.9442794
\#coef(mortalexpro)["settler_mortality"]/coef(mortalgdp)["settler_mortality"]=1.059
```





```
first_stage <- lm(expro_pro~settler_mortality, data=excolonies)
smortal_hat <- first_stage$fitted.values
second_stage <- lm(gdppc~smortal_hat, data=excolonies)
summary(second_stage)</pre>
```

```
##
## lm(formula = gdppc ~ smortal_hat, data = excolonies)
##
## Residuals:
      Min
               1Q Median
##
                               3Q
                                      Max
## -2.7545 -0.5386 0.1412 0.4607 1.4059
##
## Coefficients:
              Estimate Std. Error t value Pr(>|t|)
##
                1.9097
                           0.8233
                                    2.320 0.0237 *
## (Intercept)
                                    7.523 2.66e-10 ***
## smortal_hat
                0.9443
                           0.1255
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
## Residual standard error: 0.7604 on 62 degrees of freedom
## Multiple R-squared: 0.4772, Adjusted R-squared: 0.4688
## F-statistic: 56.6 on 1 and 62 DF, p-value: 2.659e-10
```