Same-Sex Immigrant Couples

Descriptive Statistics

November 29, 2020

Contents

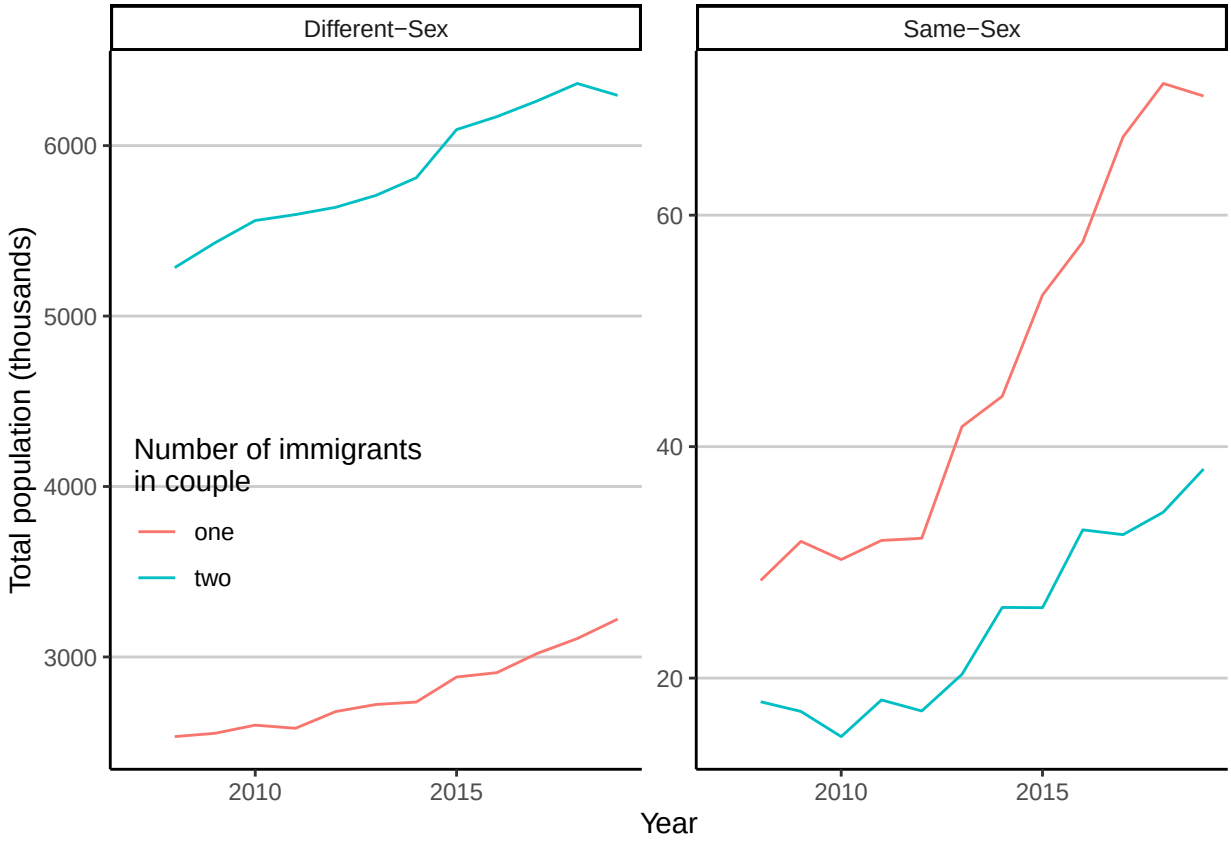

```
top_countries <- read_csv(here('data', 'top_countries.csv')) %>%
  pull(1)
acs_wide <- read_csv(here('data', 'acs_wide.csv'))
# acs_oneimm <- read_csv(here('data', 'acs_oneimm.csv'))
acs_coupled_imms <- read_csv(here('data', 'acs_coupled_imms.csv'))
acs_dyad <- read_csv(here('data', 'acs_dyad.csv'))


acs_coupled_imms <- acs_coupled_imms %>%
  mutate(same_sex = ifelse(same_sex == T, 'Same Sex', 'Different Sex'))
```

1 Scale of migration

1.1 Different- and same-sex couples containing one or two immigrants

```
acs_wide %>%
  filter(imm_couple != "none") %>%
  mutate(same_sex = ifelse(same_sex == T, 'Same-Sex', 'Different-Sex')) %>%
  group_by(year, imm_couple, same_sex) %>%
```

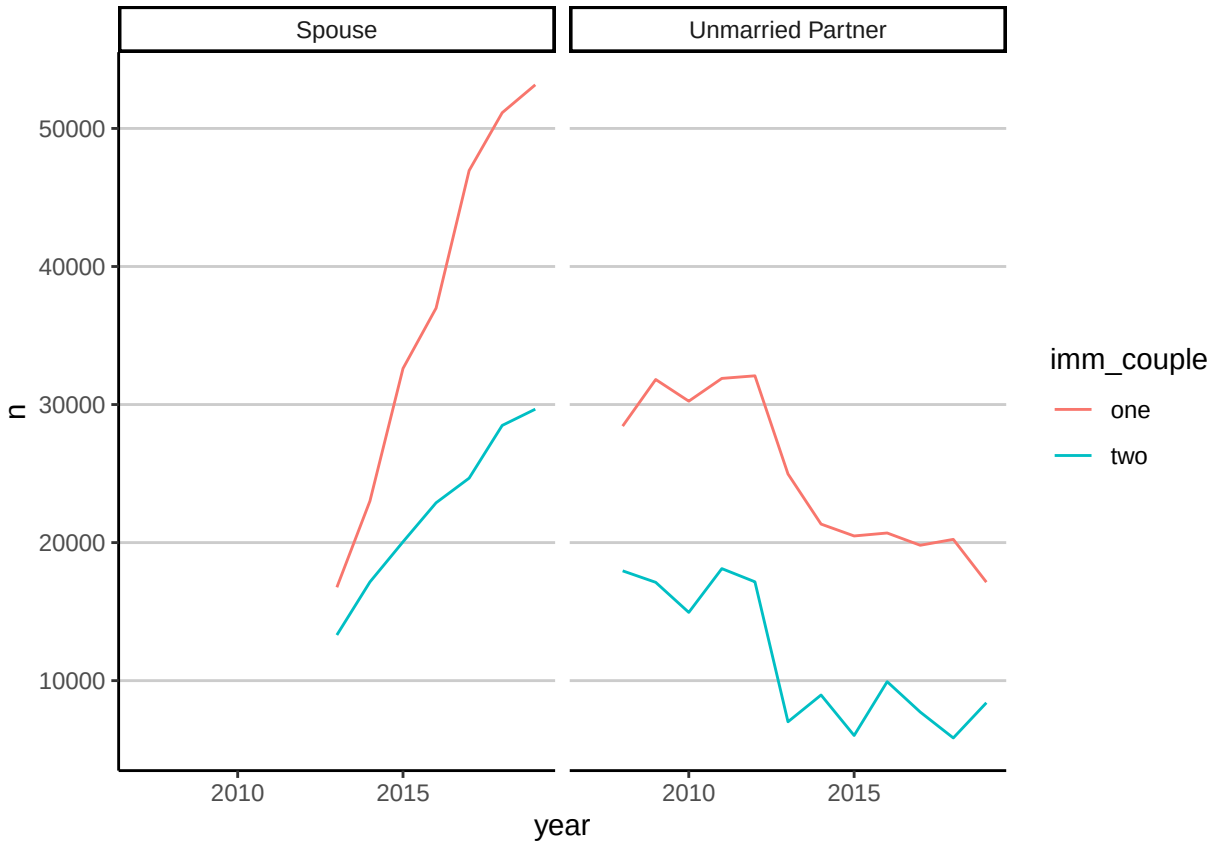
```
  count(wt = hhwt) %>%
  mutate(`Total population (thousands)` = n/1000,
         Year = year) %>%
  # summarize(n = survey_total())
  ggplot(aes(x = Year, y = `Total population (thousands)`, color = imm_couple)) +
  geom_line() +
  facet_wrap(~same_sex, scales = "free") +
  labs(color = 'Number of immigrants\nin couple') +
  xlim(2007, 2019) +
  theme(legend.position=c(.15,.35))
```




```
  # ggtitle('Total couples with immigrants')
```

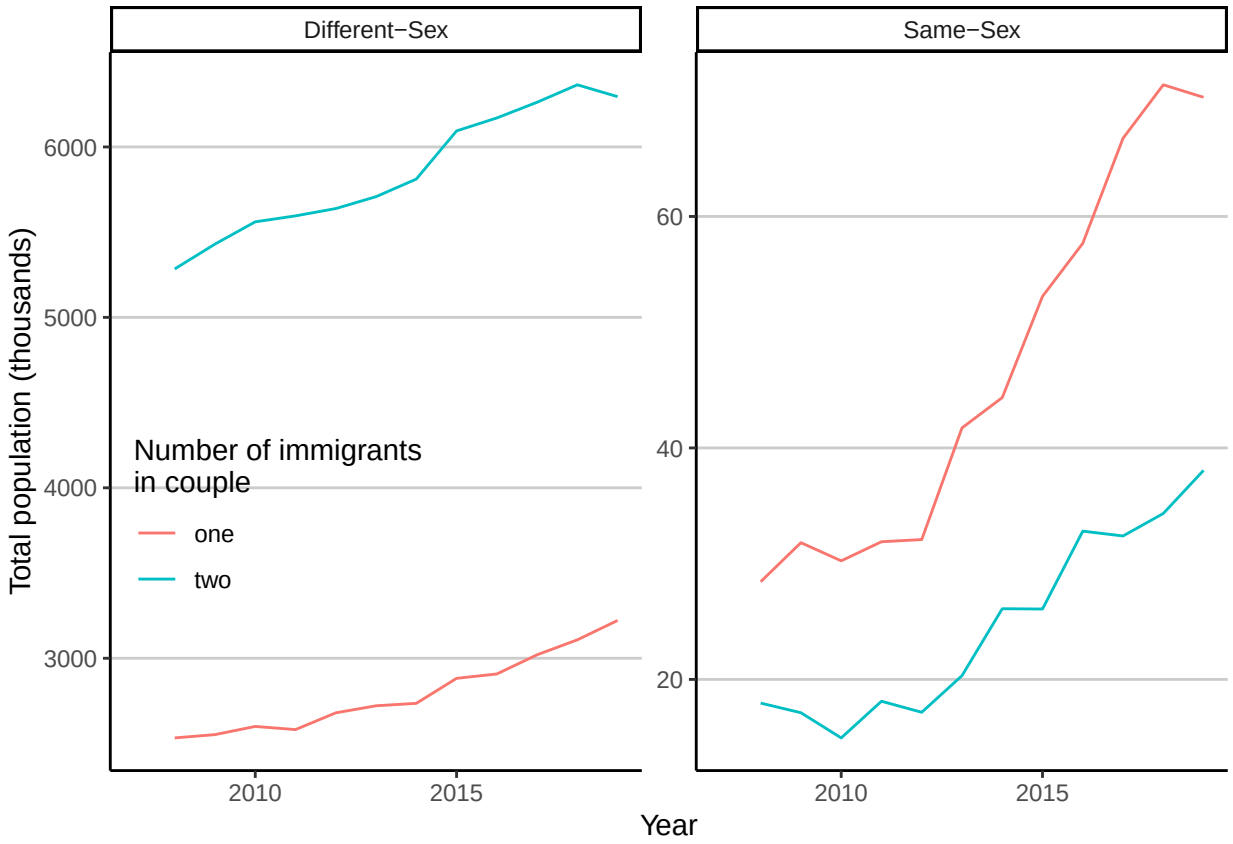
1.2 Married and unmarried same-sex couples over time

```
acs_wide %>%
  filter(same_sex == T, imm_couple != "none") %>%
  group_by(year, imm_couple, related_partner) %>%
  count(wt = hhwt) %>%
  ggplot(aes(x = year, y = n, color = imm_couple)) +
  geom_line() +
  facet_wrap(~related_partner) +
  xlim(2007, 2019)
```



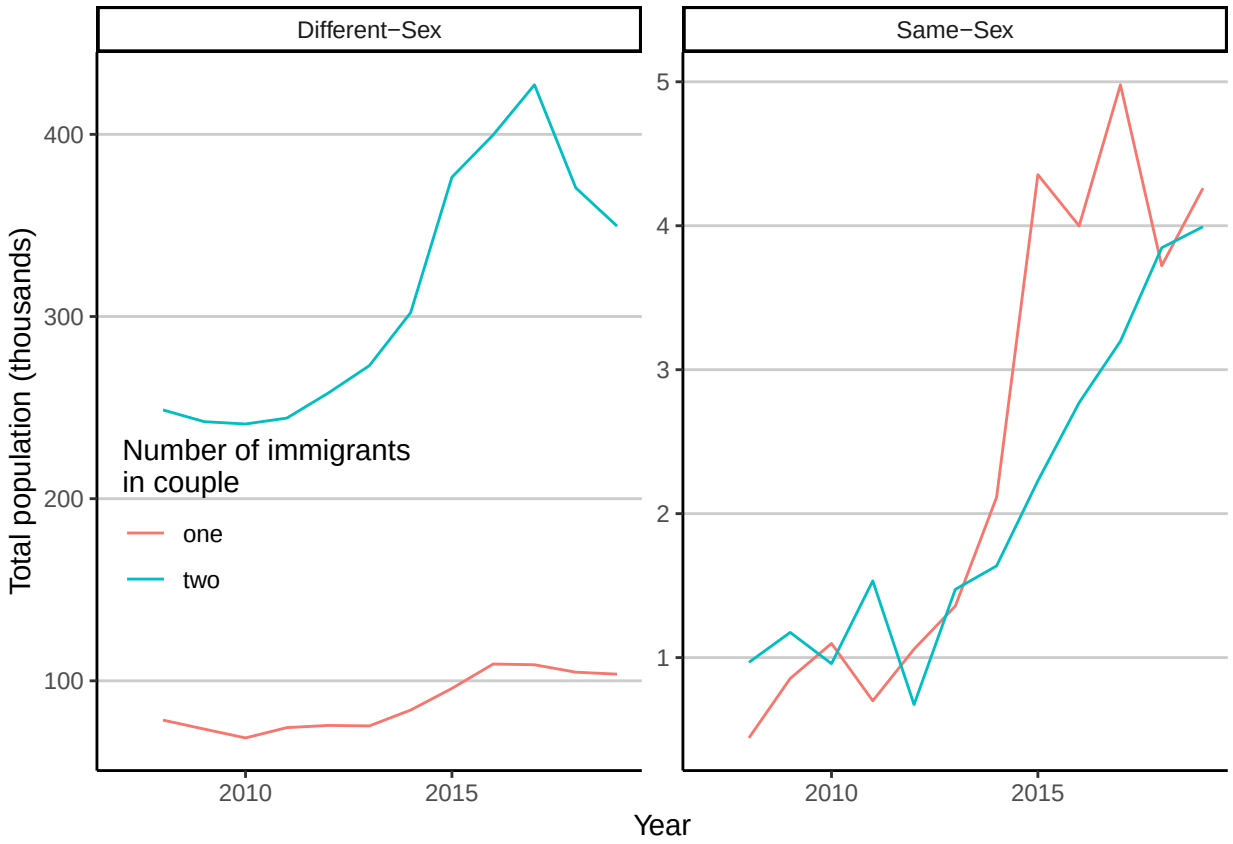
1.3 Only 18+ at time of immigration

```
acs_wide %>%
  filter(imm_couple != "none") %>%
  filter(as.numeric(age_main) - (year - yrimmig_main) >= 18 |
           as.numeric(age_partner) - (year - yrimmig_partner) >= 18) %>%
  mutate(same_sex = ifelse(same_sex == T, 'Same-Sex', 'Different-Sex')) %>%
  group_by(year, imm_couple, same_sex) %>%
  count(wt = hhwt) %>%
  mutate(`Total population (thousands)` = n/1000,
         Year = year) %>%
  # summarize(n = survey_total())
  ggplot(aes(x = Year, y = `Total population (thousands)`, color = imm_couple)) +
  geom_line() +
  facet_wrap(~same_sex, scales = "free") +
  labs(color = 'Number of immigrants\nin couple') +
  xlim(2007, 2019) +
  theme(legend.position=c(.15,.35))
```



1.4 Immigrants within last year

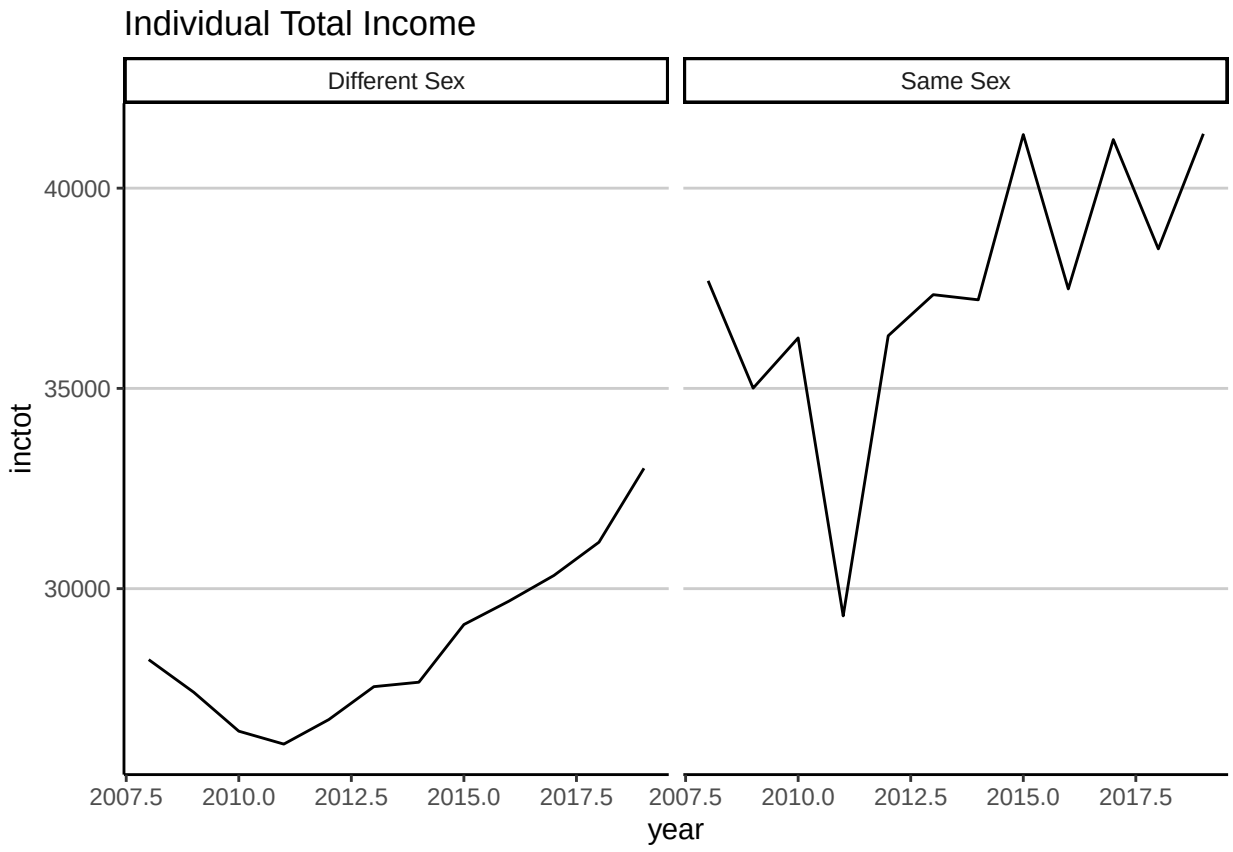
```
acs_wide %>%
  filter(imm_couple != "none") %>%
  filter(year - yrimmig_partner <= 1 | year - yrimmig_main <= 1) %>%
  mutate(same_sex = ifelse(same_sex == T, 'Same-Sex', 'Different-Sex')) %>%
  group_by(year, imm_couple, same_sex) %>%
  count(wt = hhwt) %>%
  mutate(`Total population (thousands)` = n/1000,
         Year = year) %>%
  # summarize(n = survey_total())
  ggplot(aes(x = Year, y = `Total population (thousands)`, color = imm_couple)) +
  geom_line() +
  facet_wrap(~same_sex, scales = "free") +
  labs(color = 'Number of immigrants\nin couple') +
  xlim(2007, 2019) +
  theme(legend.position=c(.15,.35))
```



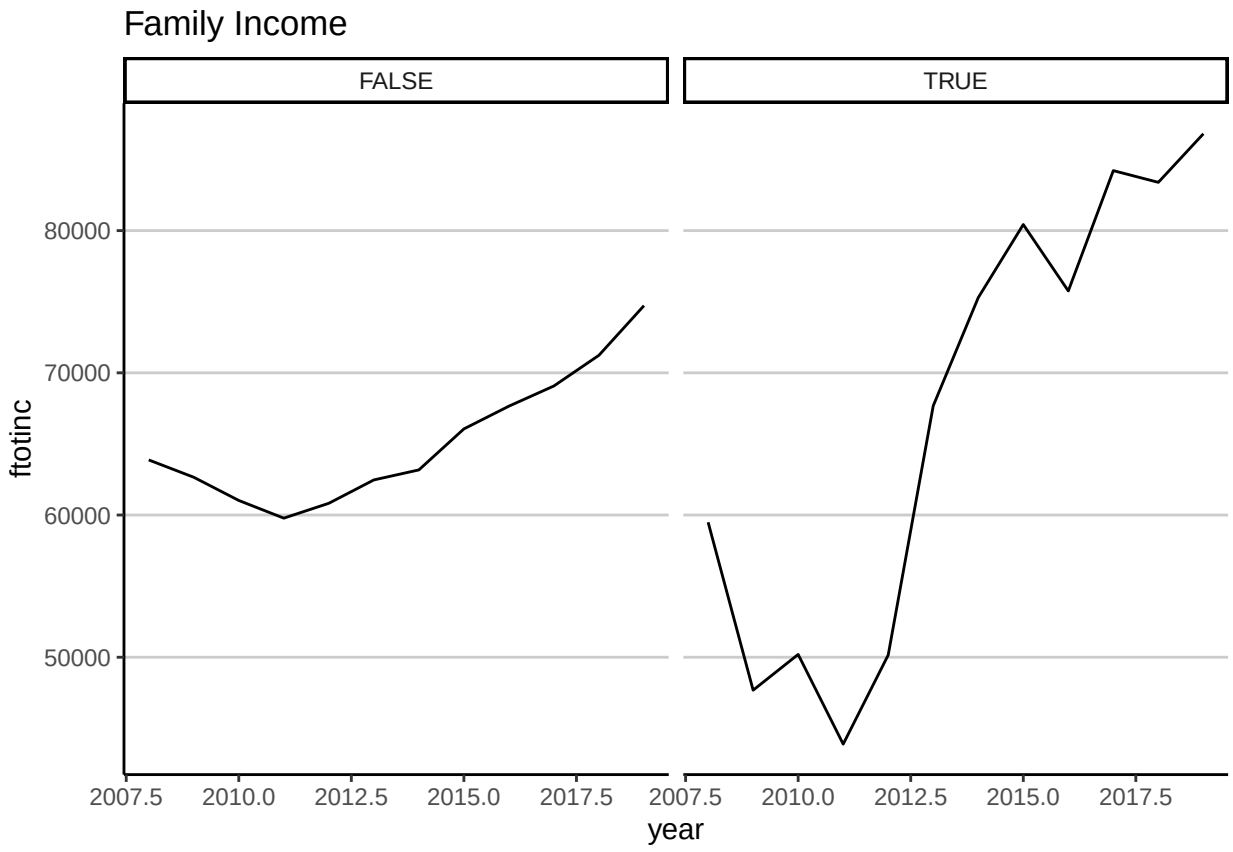
2 Differences in characteristics between immigrants in same- and opposite-sex couples

2.1 Employment

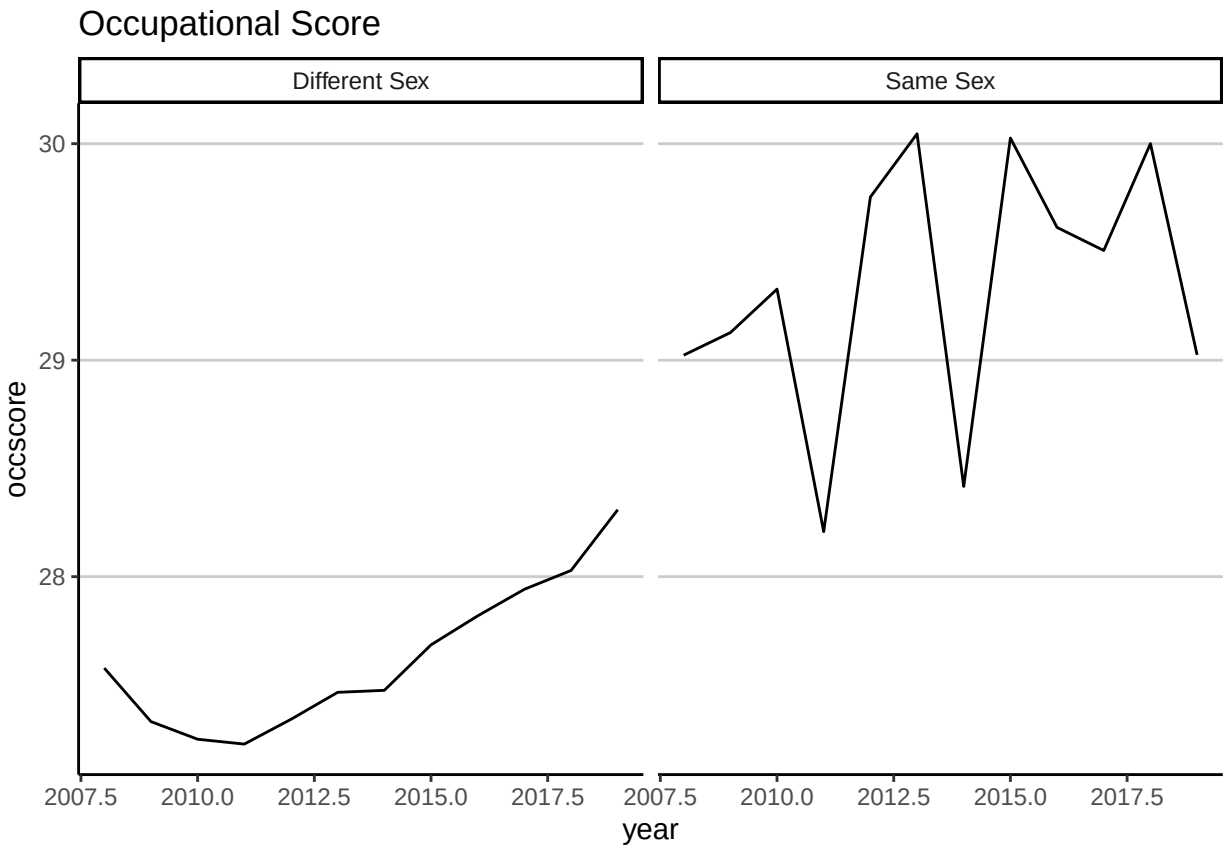
```
acs_coupled_imms %>%
  group_by(year, same_sex) %>%
  summarize(inctot = weighted.mean(inctot, w = perwt, na.rm = T)) %>%
  ggplot(aes(x = year, y = inctot)) +
  geom_line() +
  facet_wrap(~same_sex) +
  ggtitle('Individual Total Income')
```



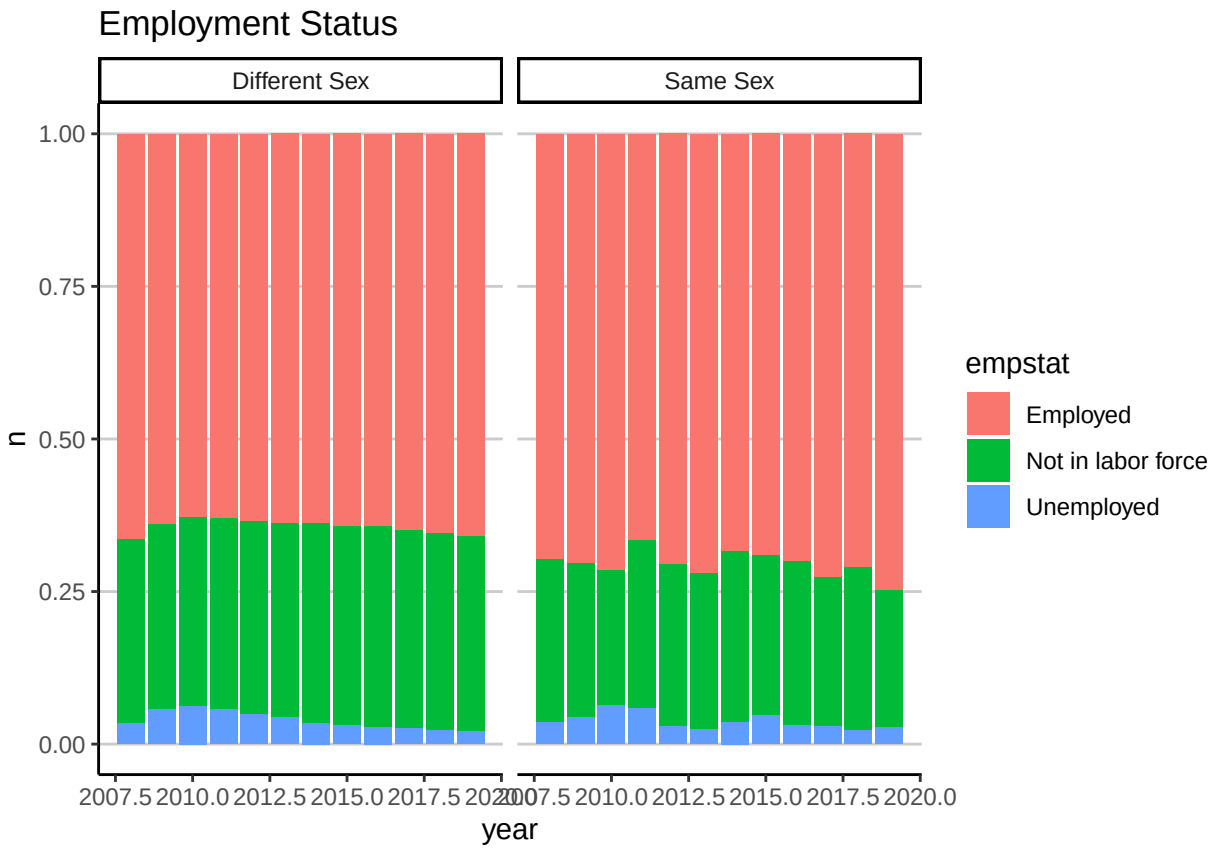

```
acs_wide %>%
  filter(imm_couple != 'none') %>%
  group_by(year, same_sex) %>%
  summarize(ftotinc = weighted.mean(ftotinc, w = hhwt, na.rm = T)) %>%
  ggplot(aes(x = year, y = ftotinc)) +
  geom_line() +
  facet_wrap(~same_sex) +
  ggtitle('Family Income')
```




```
acs_coupled_imms %>%
  group_by(year, same_sex) %>%
  summarize(occscore = weighted.mean(occscore, w = perwt, na.rm = T)) %>%
  ggplot(aes(x = year, y = occscore)) +
  geom_line() +
  facet_wrap(~same_sex) +
  ggtitle('Occupational Score')
```

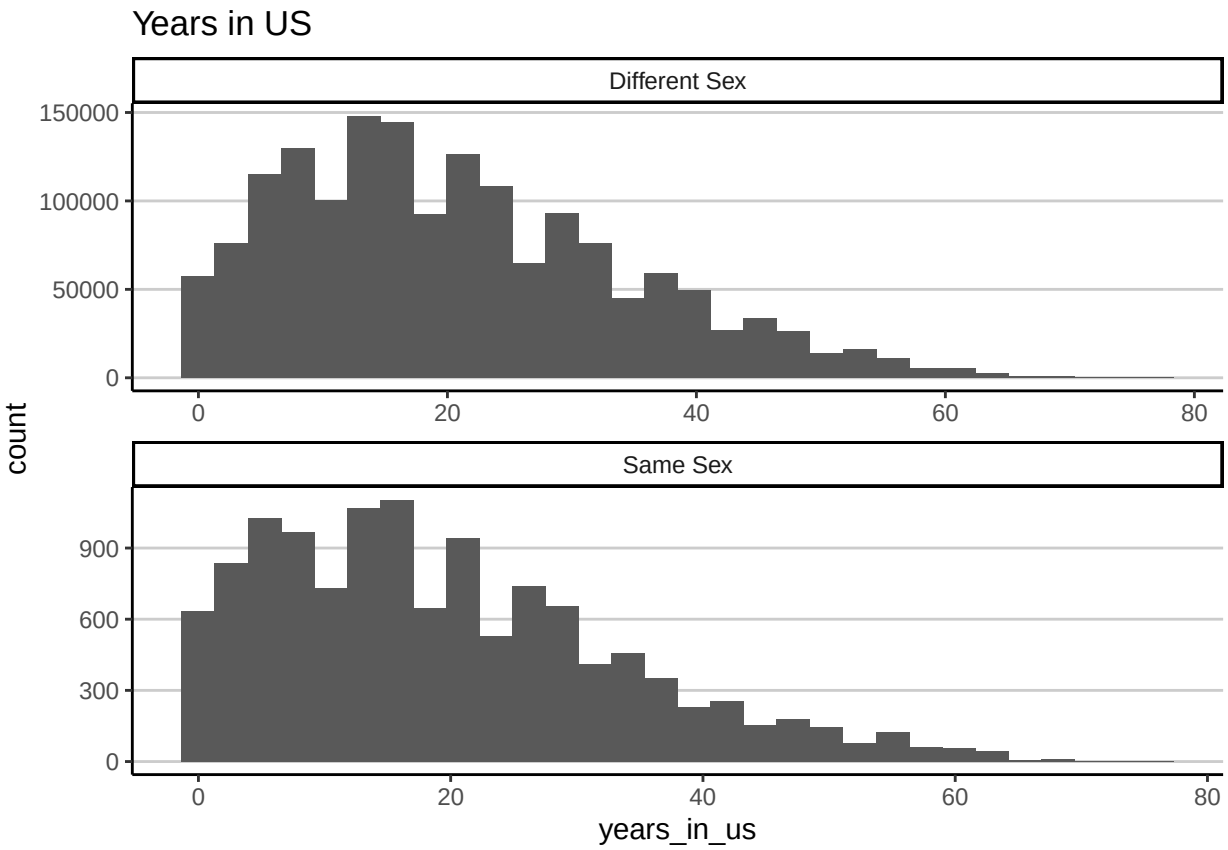



```
acs_coupled_imms %>%
  group_by(year, same_sex, empstat) %>%
  count(wt = perwt) %>%
  ggplot(aes(x = year, y = n, fill = empstat)) +
  geom_bar(position="fill", stat="identity") +
  facet_wrap(~same_sex) +
  ggtitle('Employment Status')
```

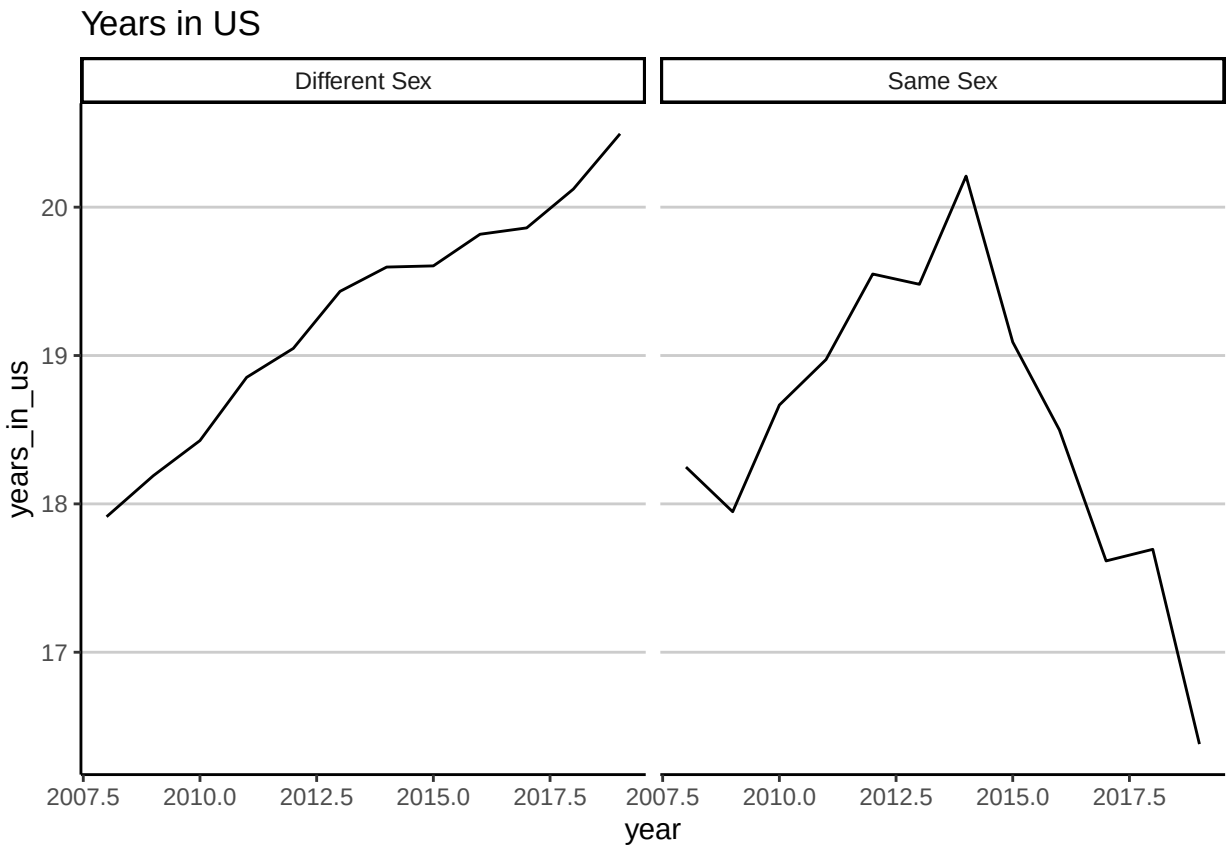


2.2 Years in US

```
acs_coupled_imms %>%
  ggplot(aes(x = years_in_us)) +
  geom_histogram() +
  facet_wrap(~same_sex, scales = 'free', nrow = 2) +
  ggtitle('Years in US')
```

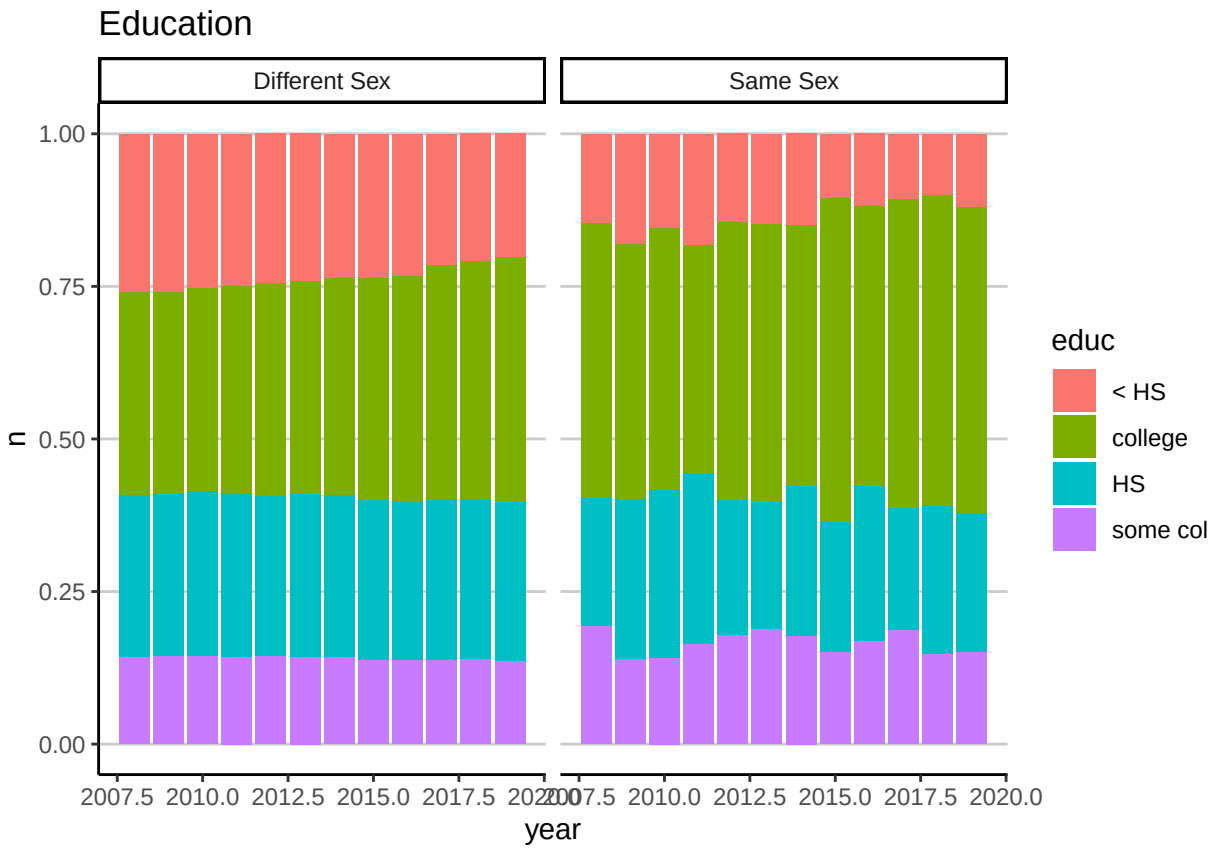



```
# acs_coupled_imms %>%
#   ggplot(aes(x = years_in_us)) +
#   geom_histogram() +
#   facet_wrap(~same_sex + year, scales = 'free') +
#   ggtitle('Years in US')

acs_coupled_imms %>%
  group_by(year, same_sex) %>%
  summarize(years_in_us = weighted.mean(years_in_us, w = perwt, na.rm = T)) %>%
  ggplot(aes(x = year, y = years_in_us)) +
  geom_line() +
  facet_wrap(~same_sex) +
  ggtitle('Years in US')
```



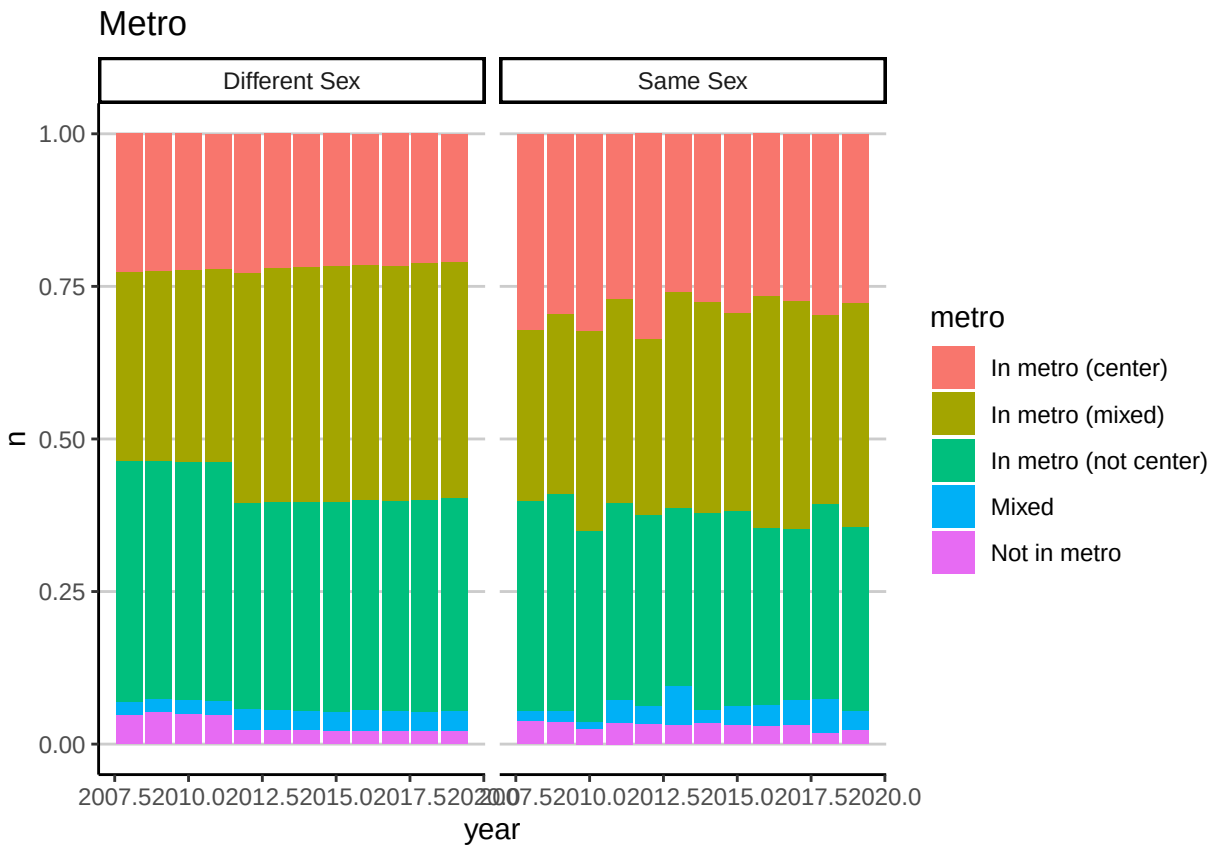
2.3 Education

```
acs_coupled_imms %>%
  group_by(year, same_sex, educ) %>%
  count(wt = perwt) %>%
  ggplot(aes(x = year, y = n, fill = educ)) +
  geom_bar(position="fill", stat="identity") +
  facet_wrap(~same_sex) +
  ggtitle('Education')
```

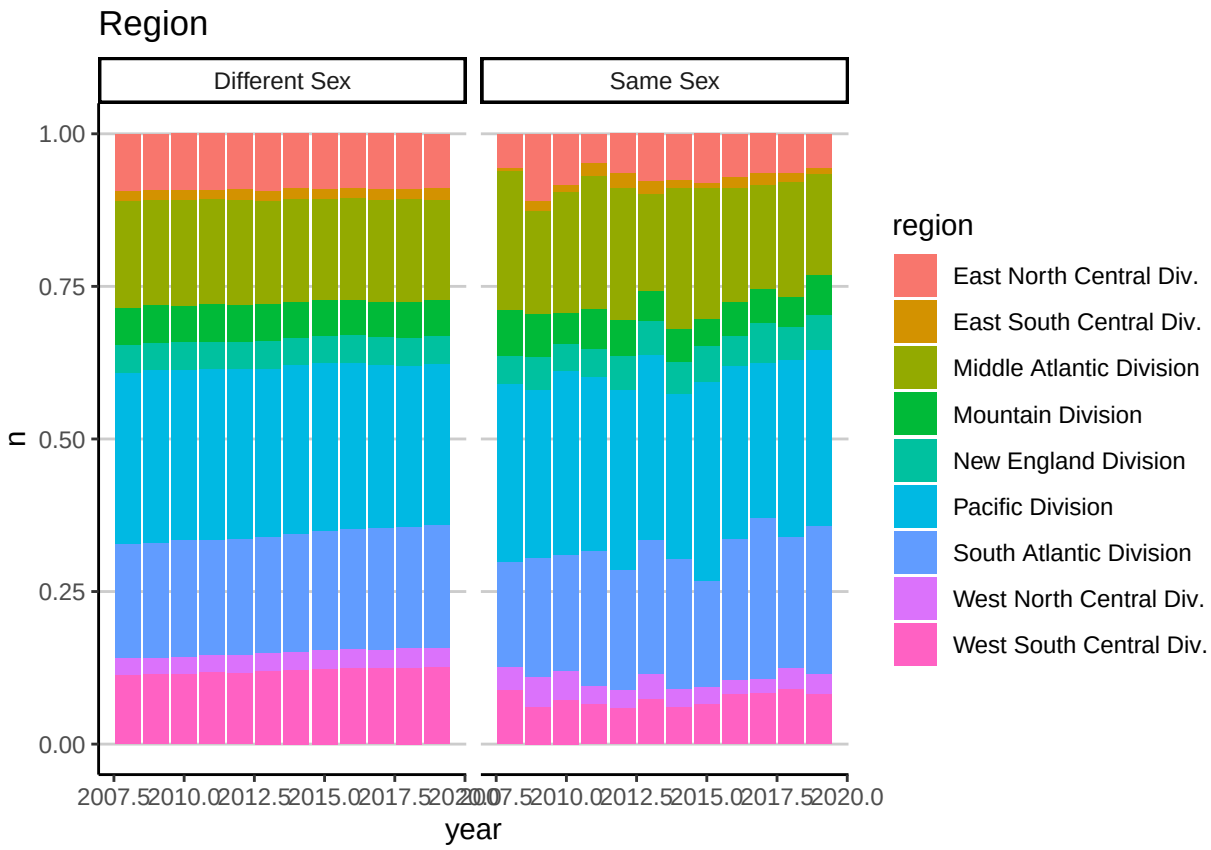


2.4 Region

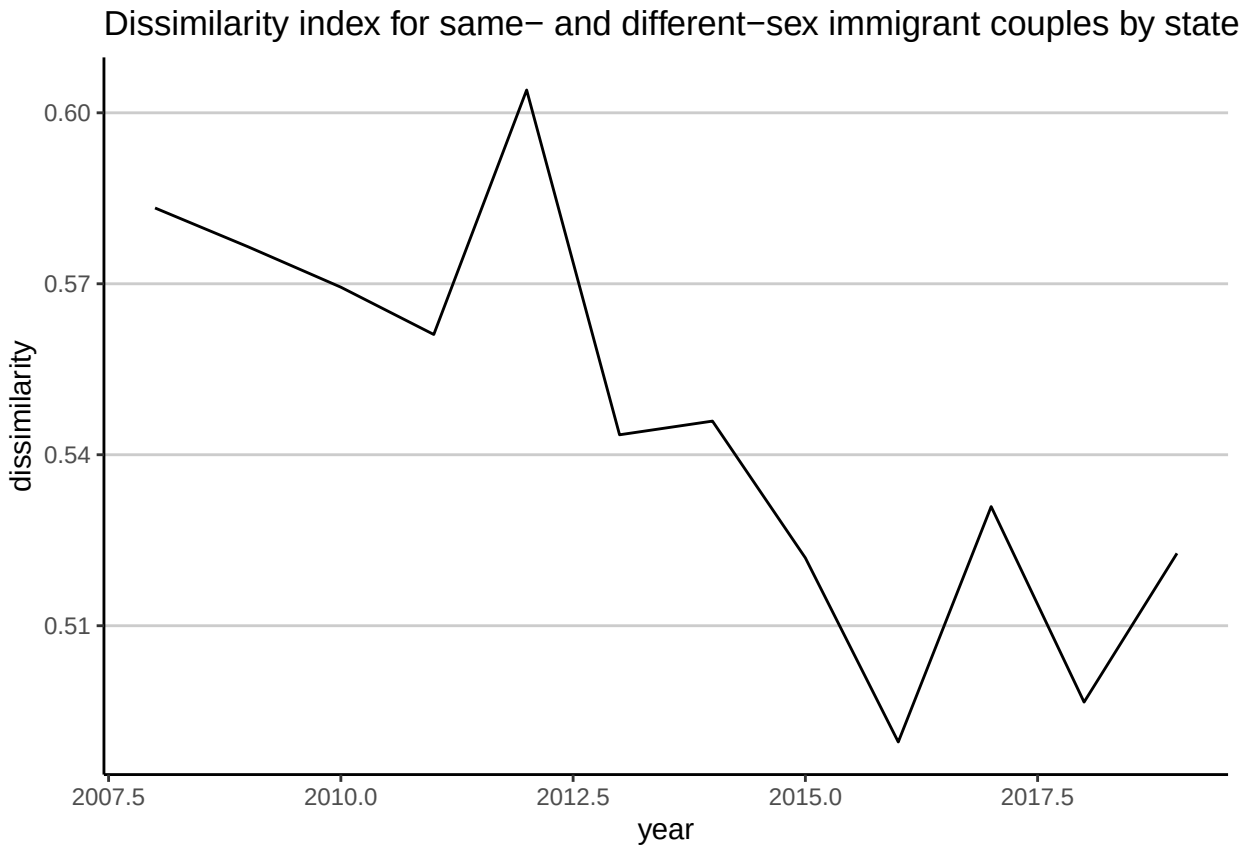
```
acs_coupled_imms %>%
  mutate(metro = recode(metro,
    "In metropolitan area: Central/principal city status indeterminable (mixed)" = "In metro (mixed)",
    "In metropolitan area: Not in central/principal city" = "In metro (not center)",
    "In metropolitan area: In central/principal city" = "In metro (center)",
    "Not in metropolitan area" = "Not in metro",
    "Metropolitan status indeterminable (mixed)" = "Mixed")) %>%
  group_by(year, same_sex, metro) %>%
  count(wt = perwt) %>%
  ggplot(aes(x = year, y = n, fill = metro)) +
  geom_bar(position="fill", stat="identity") +
  facet_wrap(~same_sex) +
  ggtitle('Metro')
```




```
acs_coupled_imms %>%
  group_by(year, same_sex, region) %>%
  count(wt = perwt) %>%
  ggplot(aes(x = year, y = n, fill = region)) +
  geom_bar(position="fill", stat="identity") +
  facet_wrap(~same_sex) +
  ggtitle('Region')
```

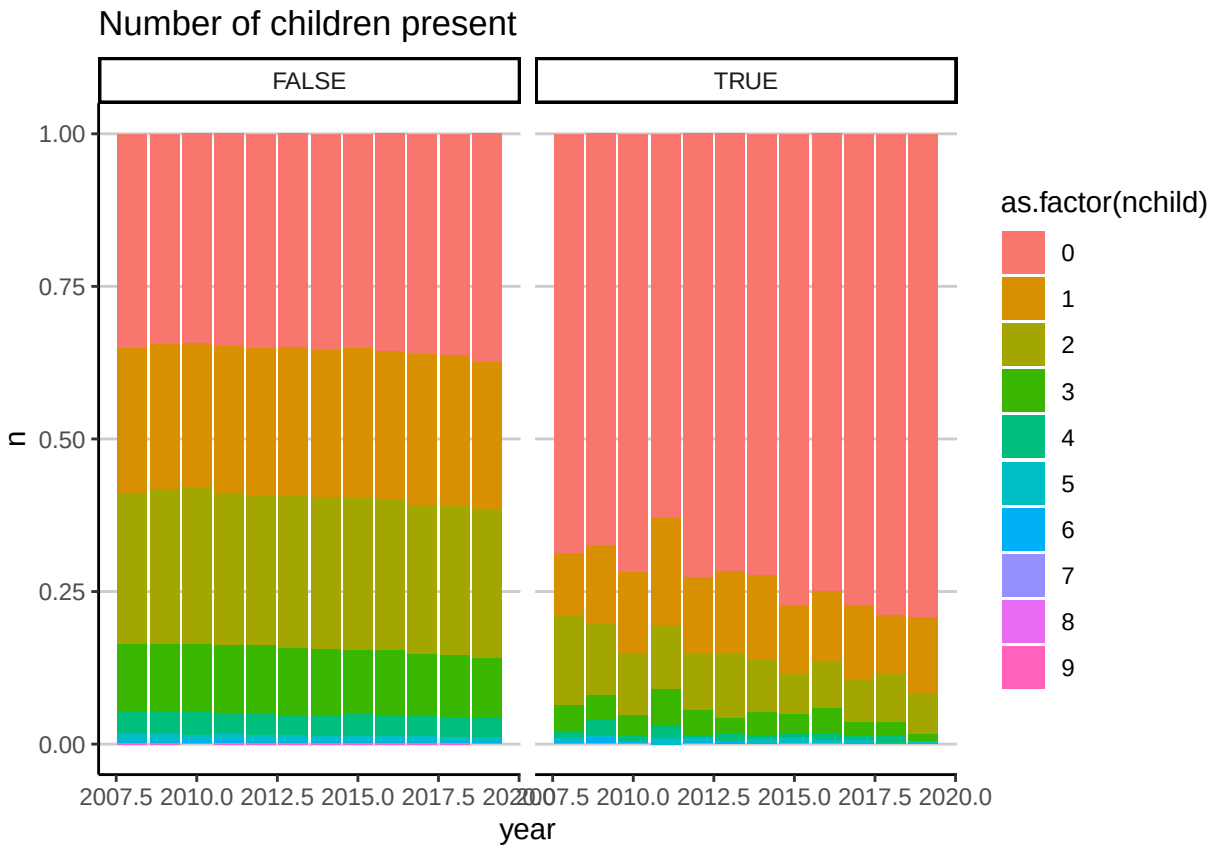



```
acs_dyad %>%
  select(same_sex_stock, opp_sex_stock, year) %>%
  group_by(year) %>%
  summarize(dissimilarity =
              DIDuncan(data.frame(same_sex_stock, opp_sex_stock))[1,2]) %>%
  ggplot(aes(x = year, y = dissimilarity)) +
  geom_line() +
  ggtitle('Dissimilarity index for same- and different-sex immigrant couples by state and birthplace')
```

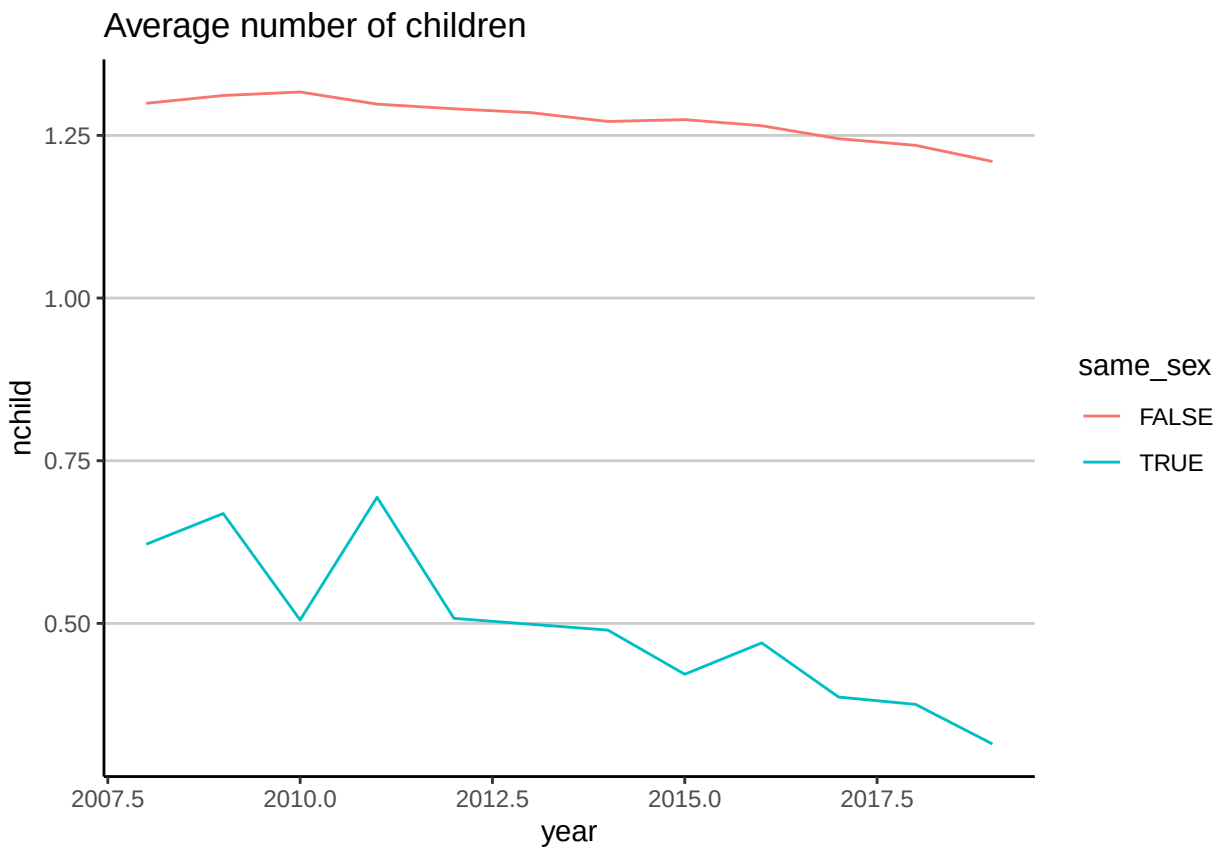


2.5 Family

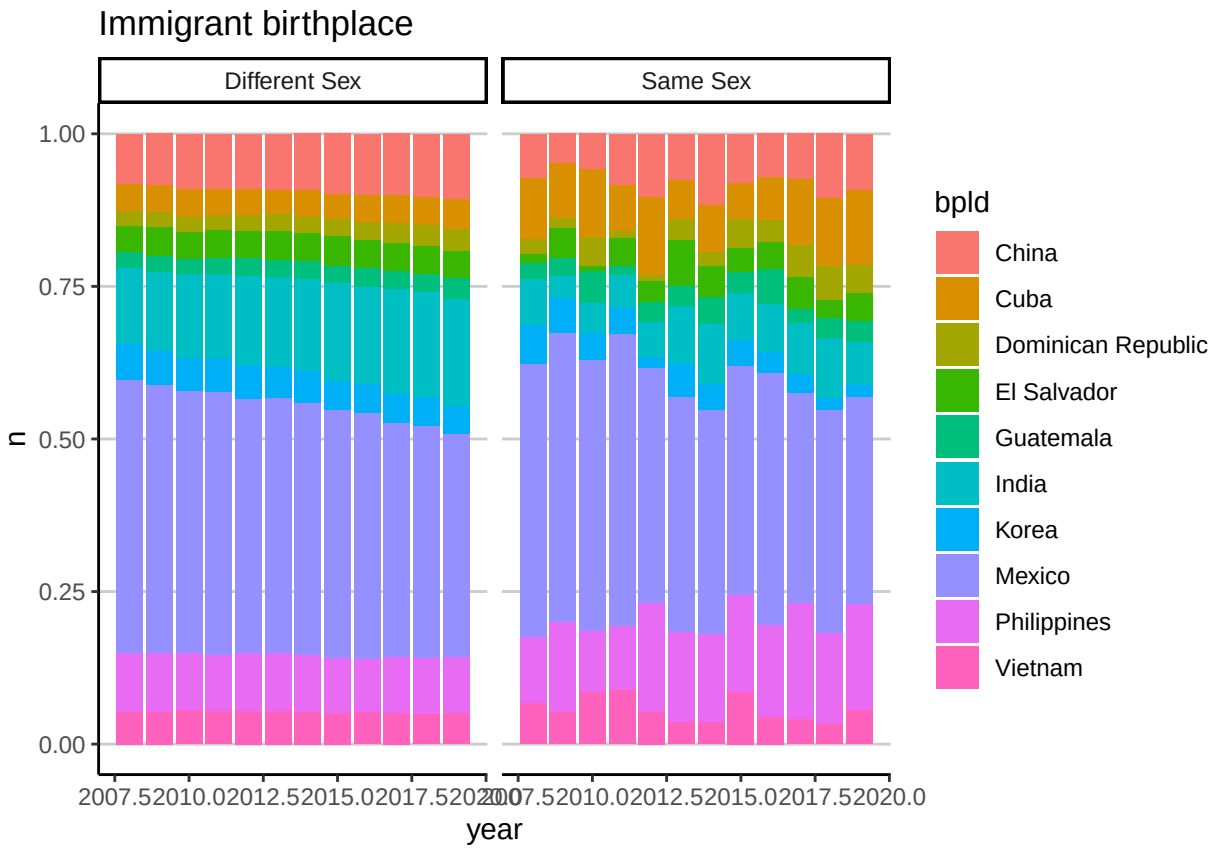
```
acs_wide %>%
  filter(imm_couple != 'none') %>%
  group_by(year, same_sex, nchild) %>%
  count(wt = hhwt) %>%
  ggplot(aes(x = year, y = n, fill = as.factor(nchild))) +
  geom_bar(position="fill", stat="identity") +
  facet_wrap(~same_sex) +
  ggtitle('Number of children present')
```




```
acs_wide %>%
  filter(imm_couple != 'none') %>%
  group_by(year, same_sex) %>%
  summarize(nchild = weighted.mean(nchild, w = hhwt, na.rm = T)) %>%
  ggplot(aes(x = year, y = nchild, col = same_sex)) +
  geom_line() +
  ggtitle('Average number of children')
```




```
acs_coupled_imms %>%
  filter(bpld %in% top_countries[1:10]) %>%
  group_by(year, same_sex, bpld) %>%
  count(wt = perwt) %>%
  ggplot(aes(x = year, y = n, fill = bpld)) +
  geom_bar(position="fill", stat="identity") +
  facet_wrap(~same_sex) +
  ggtitle('Immigrant birthplace')
```


Immigrant birthplace
Different Sex
Same Sex
1.00
0.75
0.50
0.25
0.00
n
2007.5
2010.0
2012.5
2015.0
2017.5
2020.0
year
bpld
China
Cuba
Dominican Republic
El Salvador
Guatemala
India
Korea
Mexico
Philippines
Vietnam