```
gapminder
```

```
## # A tibble: 1,704 x 6
##    country     continent  year lifeExp      pop gdpPercap
##    <fct>       <fct>     <int>   <dbl>    <int>     <dbl>
##  1 Afghanistan Asia       1952    28.8  8425333       779
##  2 Afghanistan Asia       1957    30.3  9240934       821
##  3 Afghanistan Asia       1962    32.0 10267083       853
##  4 Afghanistan Asia       1967    34.0 11537966       836
##  5 Afghanistan Asia       1972    36.1 13079460       740
##  6 Afghanistan Asia       1977    38.4 14880372       786
##  7 Afghanistan Asia       1982    39.9 12881816       978
##  8 Afghanistan Asia       1987    40.8 13867957       852
##  9 Afghanistan Asia       1992    41.7 16317921       649
## 10 Afghanistan Asia       1997    41.8 22227415       635
## # ... with 1,694 more rows
```

```
gapminder %>%
  group_by(country, continent) %>%
  nest()
```

```
## # A tibble: 142 x 3
## # Groups:   country, continent [710]
##    country     continent data
##    <fct>       <fct>     <list>
##  1 Afghanistan Asia      <tibble [12 x 4]>
##  2 Albania     Europe    <tibble [12 x 4]>
##  3 Algeria     Africa    <tibble [12 x 4]>
##  4 Angola      Africa    <tibble [12 x 4]>
##  5 Argentina   Americas  <tibble [12 x 4]>
##  6 Australia   Oceania   <tibble [12 x 4]>
##  7 Austria     Europe    <tibble [12 x 4]>
##  8 Bahrain     Asia      <tibble [12 x 4]>
##  9 Bangladesh  Asia      <tibble [12 x 4]>
## 10 Belgium     Europe    <tibble [12 x 4]>
## # ... with 132 more rows
```

```
gapminder %>%
  group_by(country, continent) %>%
  nest() %>%
  mutate(model = map(data,
                     ~lm(lifeExp ~ year, data = .x)),
         results = map(model, broom::glance))
```

```
## # A tibble: 142 x 5
## # Groups:   country, continent [710]
##    country     continent data              model  results
##    <fct>       <fct>     <list>            <list> <list>
##  1 Afghanistan Asia      <tibble [12 x 4]> <lm>   <tibble
##  2 Albania     Europe    <tibble [12 x 4]> <lm>   <tibble
##  3 Algeria     Africa    <tibble [12 x 4]> <lm>   <tibble
##  4 Angola      Africa    <tibble [12 x 4]> <lm>   <tibble
##  5 Argentina   Americas  <tibble [12 x 4]> <lm>   <tibble
##  6 Australia   Oceania   <tibble [12 x 4]> <lm>   <tibble
##  7 Austria     Europe    <tibble [12 x 4]> <lm>   <tibble
##  8 Bahrain     Asia      <tibble [12 x 4]> <lm>   <tibble
##  9 Bangladesh  Asia      <tibble [12 x 4]> <lm>   <tibble
## 10 Belgium     Europe    <tibble [12 x 4]> <lm>   <tibble
## # ... with 132 more rows
```

```r
gapminder %>%
  group_by(country, continent) %>%
  nest() %>%
  mutate(model = map(data,
                     ~lm(lifeExp ~ year, data = .x)),
         results = map(model, broom::glance)) %>%
  unnest(results)
```

```
## # A tibble: 142 x 15
## # Groups:   country, continent [710]
##    country continent data  model r.squared adj.r.squared
##    <fct>   <fct>     <lis> <lis>     <dbl>         <dbl>
##  1 Afghan~ Asia      <tib~ <lm>      0.948         0.942
##  2 Albania Europe    <tib~ <lm>      0.911         0.902
##  3 Algeria Africa    <tib~ <lm>      0.985         0.984
##  4 Angola  Africa    <tib~ <lm>      0.888         0.877
##  5 Argent~ Americas  <tib~ <lm>      0.996         0.995
##  6 Austra~ Oceania   <tib~ <lm>      0.980         0.978
##  7 Austria Europe    <tib~ <lm>      0.992         0.991
##  8 Bahrain Asia      <tib~ <lm>      0.967         0.963
##  9 Bangla~ Asia      <tib~ <lm>      0.989         0.988
## 10 Belgium Europe    <tib~ <lm>      0.995         0.994
## # ... with 132 more rows, and 7 more variables: p.value <
## #   logLik <dbl>, AIC <dbl>, BIC <dbl>, deviance <dbl>, d
```

```
gapminder %>%
  group_by(country, continent) %>%
  nest() %>%
  mutate(model = map(data,
                     ~lm(lifeExp ~ year, data = .x)),
         results = map(model, broom::glance)) %>%
  unnest(results) %>%
  ggplot(aes(x = continent, y = r.squared)) +
  ggbeeswarm::geom_quasirandom()
```