Reading Data from Excel Sheets

```
library(tidyverse)
library(readxl)
```

First, get the sheet names:

```
path = "data/EU_Stockmarkets.xlsx"
sheets = excel_sheets(path)
sheets
```

```
## [1] "1991" "1992" "1993" "1994" "1995" "1996" "1997" "1998"
```

Try one sheet:

```
read_excel(path, sheet = "1991")
```

```
## New names:
## * `` -> ...1
```

```
## # A tibble: 131 x 5
##    ...1    DAX   SMI   CAC  FTSE
##    <chr> <dbl> <dbl> <dbl> <dbl>
##  1 1     1629. 1678. 1773. 2444.
##  2 2     1614. 1688. 1750. 2460.
##  3 3     1607. 1679. 1718  2448.
##  4 4     1621. 1684. 1708. 2470.
##  5 5     1618. 1687. 1723. 2485.
##  6 6     1611. 1672. 1714. 2467.
##  7 7     1631. 1683. 1734. 2488.
##  8 8     1640. 1704. 1757. 2508.
##  9 9     1635. 1698. 1754  2510.
## 10 10    1646. 1716. 1754. 2497.
## # ... with 121 more rows
```

Loop over all sheets:

```
data = lapply(sheets, read_excel, path = path)
```

```
## New names:
## * `` -> ...1
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```

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```

```
names(data) = sheets
```

Combine subtables. Add sheet names as extra column. Fix name of index column.

```
data = bind_rows(data, .id = "Year") %>%
  rename("Period" = "...1") %>%
  mutate(Period = parse_integer(Period),
         Year = parse_integer(Year))
data
```

```
## # A tibble: 1,867 x 6
##     Year Period   DAX   SMI   CAC  FTSE
##    <int>  <int> <dbl> <dbl> <dbl> <dbl>
##  1  1991      1 1629. 1678. 1773. 2444.
##  2  1991      2 1614. 1688. 1750. 2460.
##  3  1991      3 1607. 1679. 1718  2448.
##  4  1991      4 1621. 1684. 1708. 2470.
##  5  1991      5 1618. 1687. 1723. 2485.
##  6  1991      6 1611. 1672. 1714. 2467.
##  7  1991      7 1631. 1683. 1734. 2488.
##  8  1991      8 1640. 1704. 1757. 2508.
##  9  1991      9 1635. 1698. 1754  2510.
## 10  1991     10 1646. 1716. 1754. 2497.
## # ... with 1,857 more rows
```