

Day 2

Vormittag

```
library(tidyverse)
library(gapminder)
```

Tabellen

```
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
```

```
if (knitr::is_html_output()) {
  rmarkdown::paged_table(gapminder)
} else {
  head(gapminder) |>
```

```
knitr::kable()
}
```

country	continent	year	lifeExp	pop	gdpPercap
Afghanistan	Asia	1952	28.801	8425333	779.4453
Afghanistan	Asia	1957	30.332	9240934	820.8530
Afghanistan	Asia	1962	31.997	10267083	853.1007
Afghanistan	Asia	1967	34.020	11537966	836.1971
Afghanistan	Asia	1972	36.088	13079460	739.9811
Afghanistan	Asia	1977	38.438	14880372	786.1134

what if we want to be able to comment out any line in a set of pipes?

```
id <- function(x = NULL) x
```

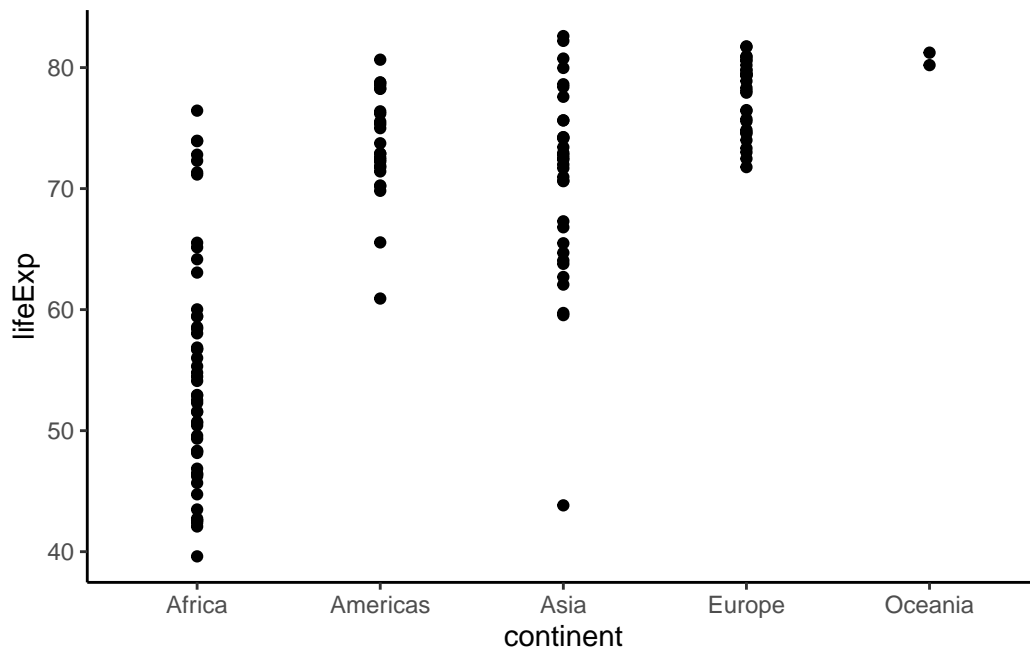
```
gapminder |>
  filter(year == max(year)) |>
  group_by(continent) |>
  summarise(across(c(lifeExp, pop, gdpPercap), mean)) |>
  knitr::kable() |>
  id()
```

continent	lifeExp	pop	gdpPercap
Africa	54.80604	17875763	3089.033
Americas	73.60812	35954847	11003.032
Asia	70.72848	115513752	12473.027
Europe	77.64860	19536618	25054.482
Oceania	80.71950	12274974	29810.188

Or in a ggplot?

```
gapminder |>
  filter(year == max(year)) |>
  group_by(continent) |>
  ggplot(aes(continent, lifeExp)) +
  geom_point() +
  theme_classic() +
  coord_cartesian() +
```

```
id()
```



more advanced across

```
gapminder |>
  filter(year == max(year)) |>
  group_by(continent) |>
  summarise(across(c(lifeExp, pop, gdpPercap),
    list(mean = mean, median = median,
         sum = sum)))
```

A tibble: 5 x 10

	continent	lifeExp_mean	lifeExp_median	lifeExp_sum	pop_mean	pop_median	pop_sum
	<fct>	<dbl>	<dbl>	<dbl>	<dbl>	<dbl>	<dbl>
1	Africa	54.8	52.9	2850.	1.79e7	10093310.	9.30e8
2	Americas	73.6	72.9	1840.	3.60e7	9319622	8.99e8
3	Asia	70.7	72.4	2334.	1.16e8	24821286	3.81e9
4	Europe	77.6	78.6	2329.	1.95e7	9493598	5.86e8
5	Oceania	80.7	80.7	161.	1.23e7	12274974.	2.45e7

... with 3 more variables: gdpPercap_mean <dbl>, gdpPercap_median <dbl>,
gdpPercap_sum <dbl>

```
id = \(x) mean(x, na.rm = TRUE)
~ mean(.x, na.rm = TRUE)
function(.x) {
  mean(.x, na.rm = TRUE)
}
```

```
if (knitr::is_html_output()) {
  DT::datatable(gapminder)
}
```