

Let's revisit our dplyr session:

The mean number of beds available by date:

Next step: Visualise

Piecing it together

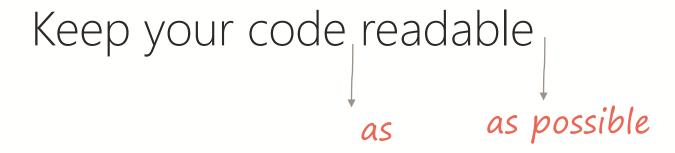
```
beds data %>%
  group by(date) %>%
  summarise(
    mean beds = mean(beds av, na.rm = T))
   Output = Object = New data frame!
  ggplot(data =
```

Now, we could do this:

But, it's often better to:

Keep wrangling separate

And it's <u>always</u> better to:



Solution:

name

```
beds_data %>%
  group_by(date) %>%
  summarise(
  mean_beds = mean(beds_av, na.rm = T))
```



Replace this:

```
beds_data %>%
  group_by(date) %>%
  summarise(
  mean_beds = mean(beds_av, na.rm = T))
```

With this:

name

Naming

```
beds_data %>%
  group_by(date) %>%
  summarise(
  mean_beds = mean(beds_av, na.rm = T))
```



Naming

```
beds_data %>%
  group_by(date) %>%
  summarise(
  mean_beds = mean(beds_av, na.rm = T))
```



Naming

```
beds_data %>%
  group_by(date) %>%
  summarise(
  mean_beds = mean(beds_av, na.rm = T))
```



Good (object) names are:

- 1. Descriptive
- 2. Short(ish)
- 3. Consistent with other names

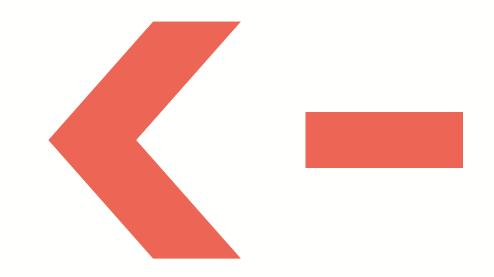
Naming?

```
beds_data %>%
  group_by(date) %>%
  summarise(
  mean_beds = mean(beds_av, na.rm = T))
```



Name objects with the assignment operator:

Assignment operator



Shortcut: Alt -

Assigns this name...

```
Assigns this name... To the object produced by this code

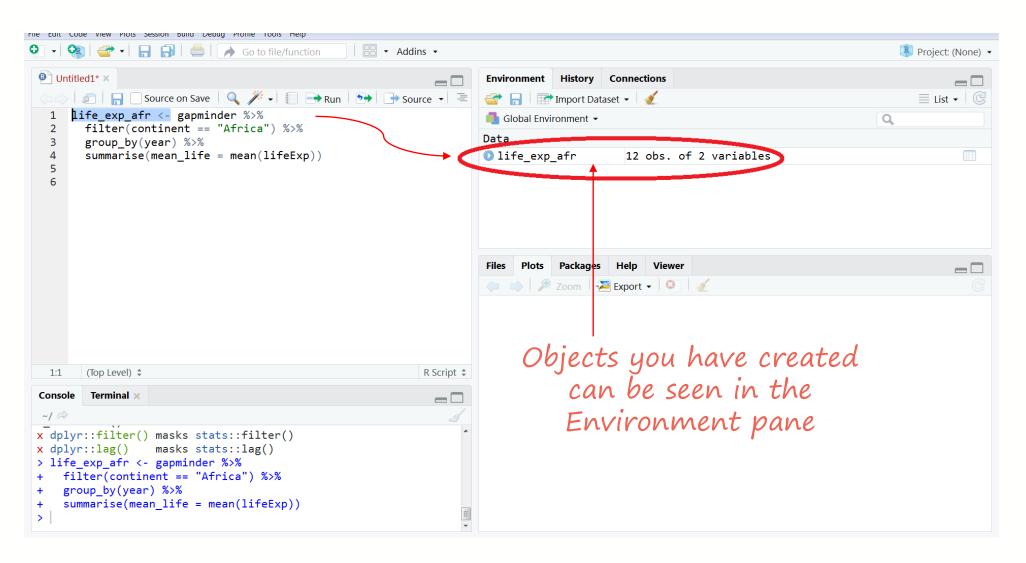
beds_ts <- beds_data %>%

group_by(date) %>%

summarise(

mean_beds = mean(beds_av, na.rm = T))
```

Objects



Returning to the plot:

Becomes:

```
ggplot(data = beds_ts)+
geom_...(aes(x = ..., y = ...))
```

Or:

```
ggplot(beds_ts)+
  geom_...(aes(..., ...))
```

Your turn (1)

If you haven't already, follow the steps we've just covered to create the object **beds_ts**.

Your turn (2)

Plot the trend in mean available beds. You may require ggplot(...) plus + the following layers:

```
geom line(aes(..., ...))+
geom point(...(..., ...))+
ylim(..., ...) \rightarrow To get help with this
                     (or any) function type
```

Your turn (3)

Give your plot object a name.

To summarise

Give an object (data frame, plot, value) a name when you may need that object later in your analysis.

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