# Day 5: Wrapping Up

DIMA Units of Regional Bureaux: EHAGL, SA and WCA

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# Today will be about:

- Recap of Last 4 Days
- Small Things to Know
  - R Coding Style
  - Strings and Country Names
- Not Yet Asked Questions
- Potential Areas to Cover in the Future
- Feedback and Building Community



# **Recap of Last 4 Days**

- Introduction
- Basics and Data Import
- Data Manipulation
- R Markdown and Visualisation with ggplot2



R Coding Style: Notation and Naming (Reference: R Coding Style)

File names

File names should be meaningful and end in .R.

```
# Good
fit-models.R
utility_functions.R

# Bad
foo.r
stuff.r
```

If files need to be run in sequence, prefix them with numbers:

```
0-download.R
1-parse.R
2-explore.R
```



R Coding Style: Notation and Naming (Reference: R Coding Style)

**Object names** 

Variable and function names should be lowercase. Use an underscore (\_) to separate words within a name. Generally, **variable** names should be **nouns** and **function** names should be **verbs**.

```
# Good
day_one
day_1
dayOne

# Bad
first_day_of_the_month
dayone
djm1
```

Where possible, avoid using names of existing functions and variables. Doing so will cause confusion for the readers of your code.

```
# Bad
T <- FALSE
c <- 10
mean <- function(x) sum(x)</pre>
```



R Coding Style: Syntax (Reference: R Coding Style)

**Spacing** 

Place spaces around all infix operators (=, +, -, <-, etc.). The same rule applies when using = in function calls. Always put a space after a comma, and never before (just like in regular English).

```
# Good
average <- mean(feet / 12 + inches, na.rm = TRUE)
# Bad
average<-mean(feet/12+inches,na.rm=TRUE)</pre>
```

There's a small exception to this rule: :, :: and ::: don't need spaces around them.

```
# Good
x <- 1:10
base::get
# Bad
x <- 1: 10
base:: get
```



#### **String Problem of Country Names**

- Use country codes where possible
- Example: Different country names between Dataport and ASR

```
## # A tibble: 10 x 2
      dataport_coo_name
                                                         asr_coo_name
      <chr>
                                                         <chr>>
                                                         Central African Rep.
## 1 Central African Republic
   2 Congo, Republic of the
                                                         Congo
## 3 Democratic Republic of the Congo
                                                         Dem. Rep. of the Congo
## 4 Gambia, Republic of The
                                                         Gambia
   5 United Kingdom of Great Britain and North. Ireland United Kingdom of Great B~
   6 Côte d'Ivoire
                                                         Cote d'Ivoire
## 7 Iran, Islamic Republic of
                                                         Iran (Islamic Rep. of)
                                                         China, Macao SAR
   8 Macau
## 9 Syrian Arab Republic
                                                         Syrian Arab Rep.
## 10 United Republic of Tanzania
                                                         United Rep. of Tanzania
```

• Encoding issue: Côte d'Ivoire



#### **String Problem of Country Names**

• Example: Different country codes between UNHCR code and ISO3

```
## # A tibble: 94 x 3
     iso3 unher unsd name
     <chr> <chr> <chr>
   1 DZA
           ALG
                 Algeria
   2 AG0
                Angola
   3 ATG
                Antiqua and Barbuda
   4 AUS
                 Australia
   5 AUT
                Austria
   6 BHR
           BAH Bahrain
   7 BRB
           BAR Barbados
   8 BLZ
           BZE Belize
   9 BMU
           BER Bermuda
## 10 BTN
                Bhutan
## # ... with 84 more rows
```

Use countrycode package

```
install.packages(countrycode)
library(countrycode)
```



### **Not Yet Asked Questions**



# Potential Areas to Cover in the Future



# Feedback and Building Community



