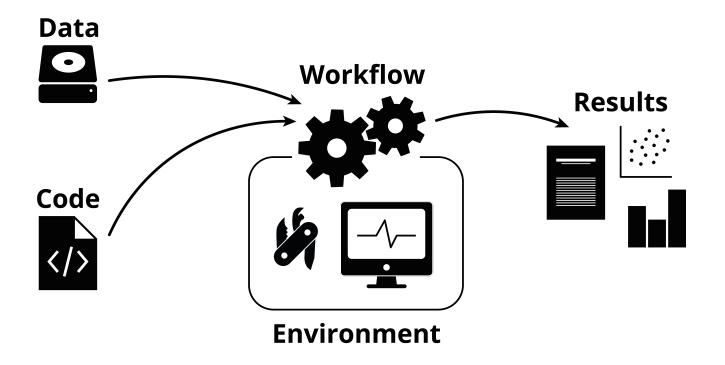
Making reports with













Supplementary material

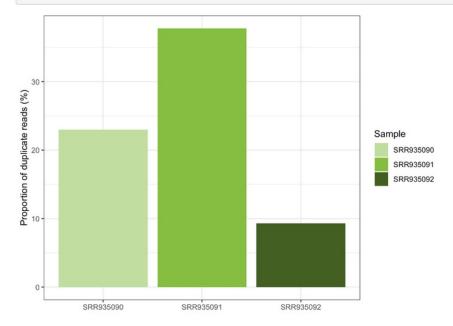
John Doe, Joan Doe, Jan Doh, Dyon Do 08 April, 2020

Load the data

We have three different samples and several quality metrics for each, originating in publicly available data.

Plot quality metrics

We will now plot the proportion of read duplications in each of the samples, to see if there are any problems with data quality.



```
2 title: "Supplementary material"
 3 author: "John Doe, Joan Doe, Jan Doh, Dyon Do"
 4 date: "`r format(Sys.time(), '%d %B, %Y')`"
 5 output: html_document
8 ```{r Load packages, include = FALSE}
9 library("ggplot2")
11
12 # Load the data
14 We have three different samples and several quality metrics for each,
15 originating in publicly available data.
17 ```{r Load data}
18 data <- read.table("rmarkdown/intermediate/multiqc_general_stats.txt",</pre>
                                      = "\t",
                      header
21
22
23
                     stringsAsFactors = FALSE)
24 # Plot quality metrics
26 We will now plot the proportion of read duplications in each of the samples, to
27 see if there are any problems with data quality.
29 ```{r Plot data}
30 ggplot(data, aes(x = Sample,
                       = FastQC_mqc.generalstats.fastqc.percent_duplicates,
    geom_bar(stat = "identity") +
34
      theme_bw() +
       labs(x = NULL,
            y = "Proportion of duplicate reads (%)") +
      scale_fill_manual(values = c("#c1dea0", "#85be42", "#425f21"))
```





A header in YAML-format

- Defines document-wide options
- Specifies the output format
- Can include several parameters

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Markdown text

Freely add and format text using standard markdown

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Code chunks

- Evaluate R code and show its output
- Specify global or local chunk options (e.g. figure dimensions)
- Also works with several other languages (e.g. Bash and Python)

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```





Rendering R Markdown documents

Render from the command line (or R terminal in RStudio):
 R -e "rmarkdown::render('Report.Rmd')"

• Render from the RStudio menu





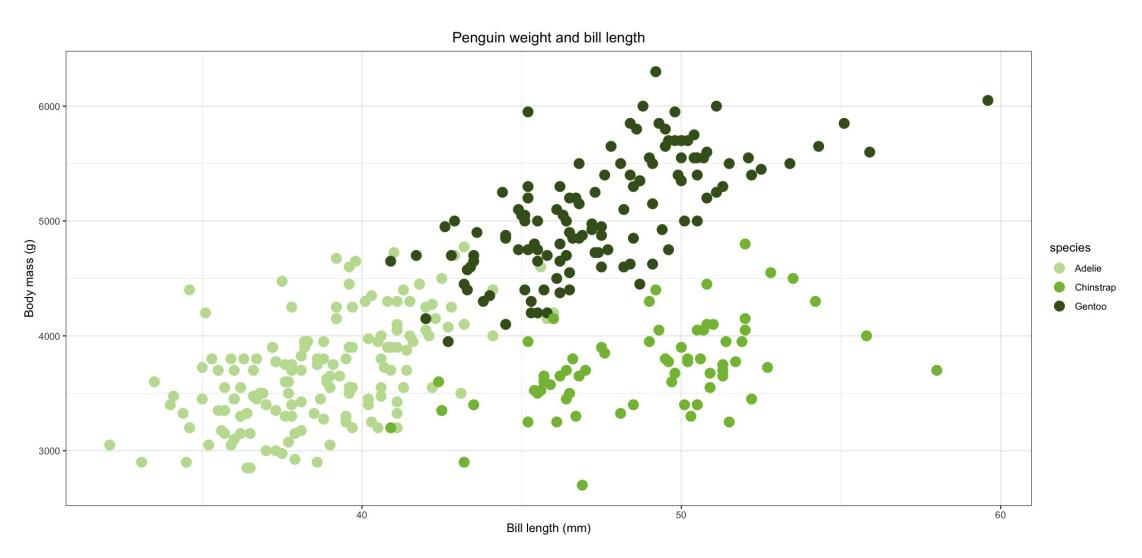
Output formats

- Reports and general documents (HTML, PDF, Microsoft Word)
- Presentations (Xaringan, reveal.js, PowerPoint, Beamer)
- Interactive documents and dashboards (HTML widgets, Shiny)
- Books and websites (Bookdown)





Presentations with R Markdown







Questions?



