



Jennifer Bryan  
RStudio

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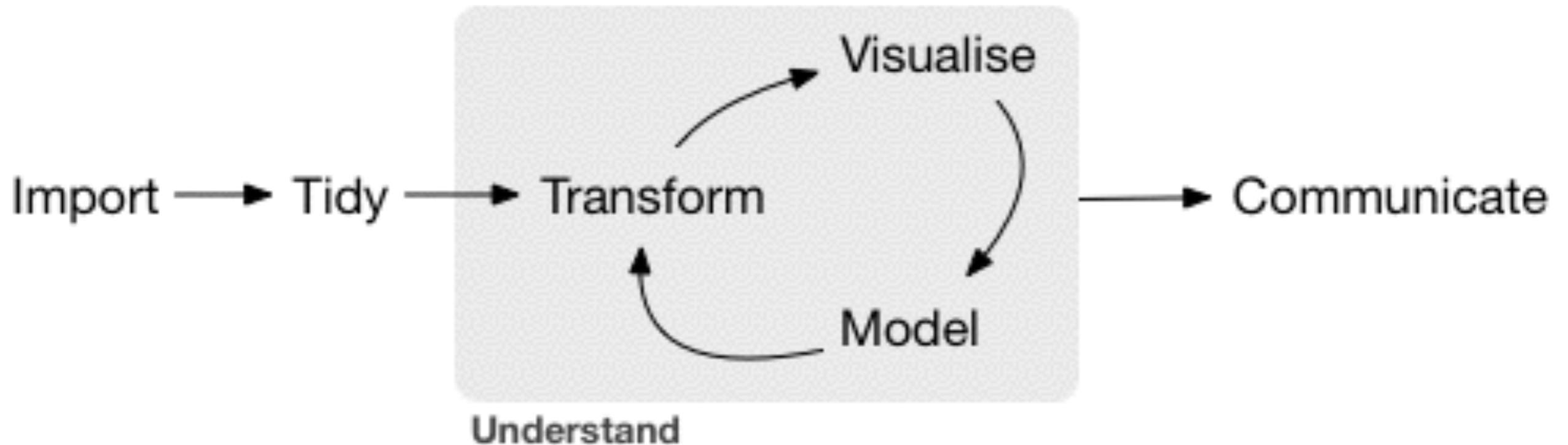
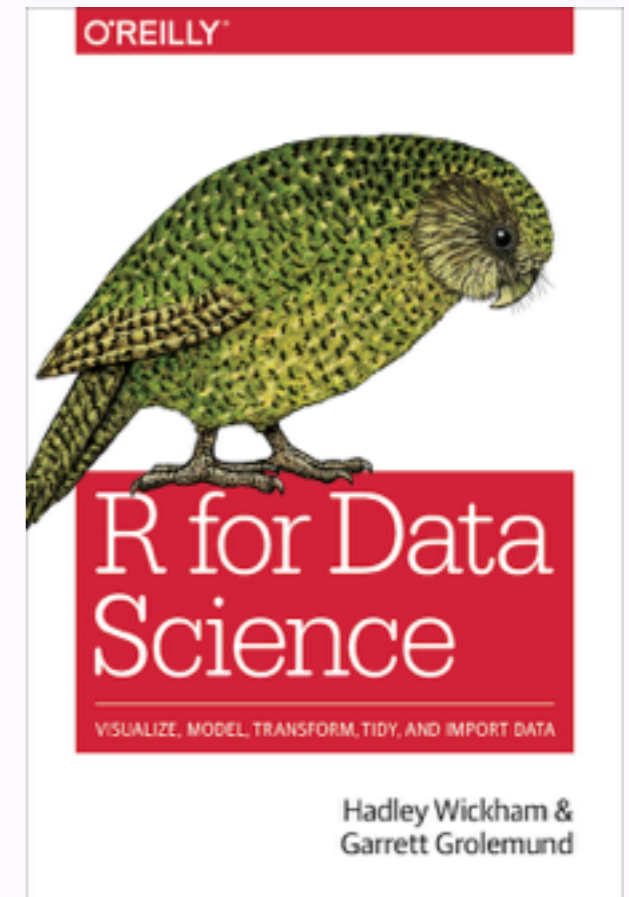


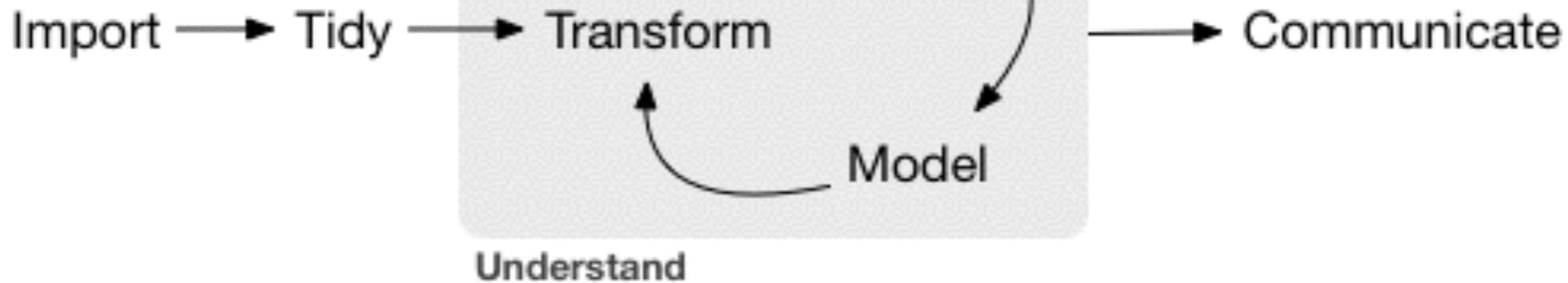
<http://readxl.tidyverse.org>

<http://tidyverse.org>



<http://r4ds.had.co.nz>





Program

2015 April

 First readxl CRAN release!

v0.1.0, written by Hadley Wickham

2016 March

 v0.1.1 patch release

2017 April

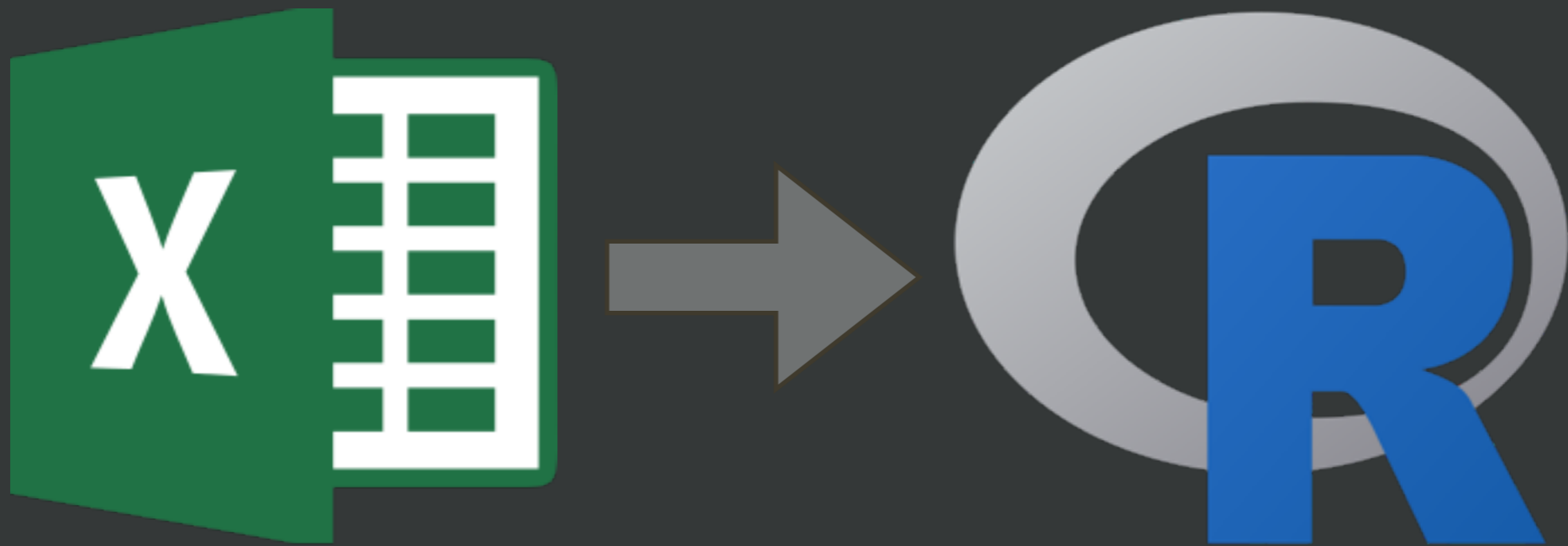
v1.0.0,  Jenny Bryan is new maintainer

 lots of bug fixes,  some new features

```
## install readxl + other packages  
install.packages("tidyverse")
```

```
## install readxl alone  
install.packages("readxl")
```

```
## regardless, load readxl like so:  
library(readxl)
```



readxl, openxlsx, XLConnect, xlsx,  
gdata, RODBC, excel.link, and more!



.xls vs .xlsx

self-contained vs. needs Java/Perl

data (frame) vs cells & formatting



.xls vs .xlsx

self-contained vs. needs Java/Perl

data (frame) vs cells & formatting

	A	B	C	D	E	F
1	Lots of people					
2	simply cannot resist writing					some notes
3	at	the	top		of	their spreadsheet
4	or	merging				cells
5	Name ▼	Profession ▼	Age ▼	Has kids ▼	Date of birth ▼	Date of death ▼
6	David Bowie	musician	69	TRUE	1947-01-08	2016-01-10
7	Carrie Fisher	actor	60	TRUE	1956-10-21	2016-12-27
8	Chuck Berry	musician	90	TRUE	1926-10-18	2017-03-18
9	Bill Paxton	actor	61	TRUE	1955-05-17	2017-02-25
10	Prince	musician	57	TRUE	1958-06-07	2016-04-21
11	Alan Rickman	actor	69	FALSE	1946-02-21	2016-01-14
12	Florence Henderson	actor	82	TRUE	1934-02-14	2016-11-24
13	Harper Lee	author	89	FALSE	1926-04-28	2016-02-19
14	Zsa Zsa Gábor	actor	99	TRUE	1917-02-06	2016-12-18
15	George Michael	musician	53	FALSE	1963-06-25	2016-12-25
16	Some					
17		also like to write stuff				
18			at the	bottom,		
19						too!

1. readxl is all about the data rectangle



2. RStudio IDE has a nice Excel helper

```
> read_excel(readxl_example("deaths.xlsx"), range = cell_rows(5:15))
```

```
# A tibble: 10 × 6
```

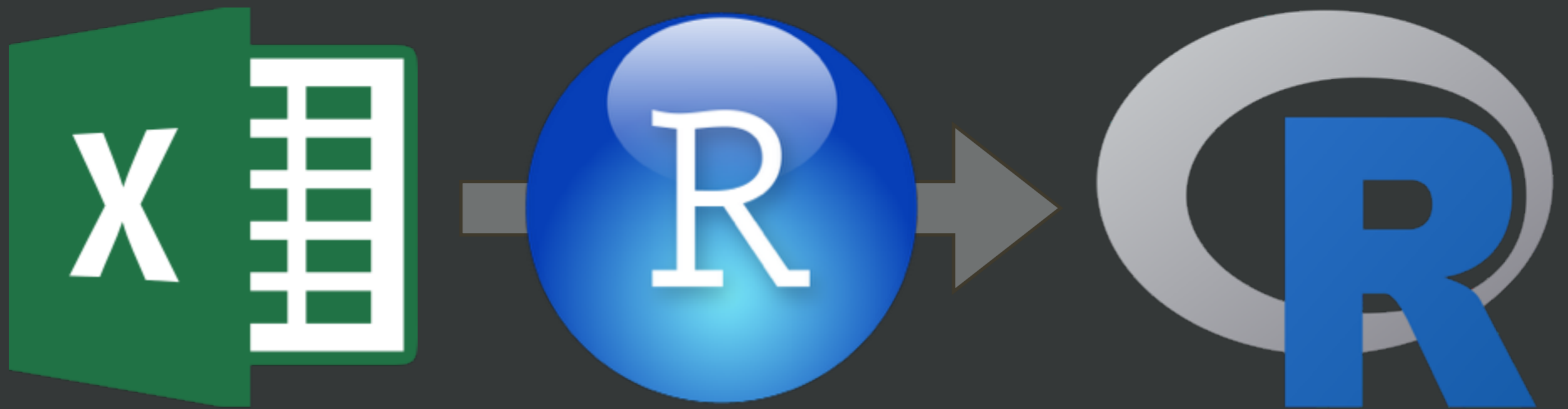
	Name	Profession	Age	`Has kids`	`Date of birth`
	<chr>	<chr>	<dbl>	<lgl>	<dtm>
1	David Bowie	musician	69	TRUE	1947-01-08
2	Carrie Fisher	actor	60	TRUE	1956-10-21
3	Chuck Berry	musician	90	TRUE	1926-10-18
4	Bill Paxton	actor	61	TRUE	1955-05-17
5	Prince	musician	57	TRUE	1958-06-07
6	Alan Rickman	actor	69	FALSE	1946-02-21
7	Florence Henderson	actor	82	TRUE	1934-02-14
8	Harper Lee	author	89	FALSE	1926-04-28
9	Zsa Zsa Gábor	actor	99	TRUE	1917-02-06
10	George Michael	musician	53	FALSE	1963-06-25

```
# ... with 1 more variables: `Date of death` <dtm>
```

3. readxl's column typing is groovy

```
path <- readxl_example("deaths.xlsx")
deaths <- path %>%
  excel_sheets() %>%
  set_names() %>%
  map_df(
    ~ read_excel(path = path, sheet = .x, range = "A5:F15"),
    .id = "sheet"
  )
```

4. workflows for multiple sheets and files



let's work together in the IDE ...

1. readxl is all about the data rectangle
2. RStudio IDE has a nice Excel helper
3. readxl's column typing is groovy
4. workflows for multiple sheets and files



<http://readxl.tidyverse.org>