

Introduction to Tidyverse

Claire Liow

University of Tokyo

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Section 1

What is tidyverse?

What is tidyverse?

#[Alt text] (~/Desktop/tidyverse_packages.png)

- A collection of R packages
- Support natural workflow of data analysis
- Data import, tidying, manipulation, visualization, programming

Load tidyverse

```
#install.packages(tidyverse)  
library("tidyverse")
```

Section 2

Base R versus tidyverse syntax

Base R versus tidyverse syntax

Base R syntax

```
UNpop <- read.csv("data/UNpop.csv")  
class(UNpop)  
head(UNpop)
```

```
UNpop$world.pop # access individual variable  
UNpop[, "world.pop"] # extract the column "world.pop"  
UNpop[1:3, "year"] # subset first three rows of year
```

tidyverse syntax

```
UNpop.tidy <- read_csv("data/UNpop.csv")  
class(UNpop.tidy)  
glimpse(UNpop.tidy)
```

```
select(UNpop.tidy, world.pop) # extracting the world.pop variable  
UNpop.tidy %>% # subset the first three rows of years
```

Section 3

Summary

Summary

Differences between Base R/tidyverse? - Base R: Lots of \$, [[]] -
Tidyverse: %>% (Forward pipe operator)

When to use Base R/tidyverse? - Combination of both