#' **@levelUp** Your Package's
#'   Roxygen Documentation

#' Jay Qi   satRday Chicago 2019

@jayyqi   https://github.com/jayqi/satRday-roxygen-talk

#' roxygen2: R Package Documentation

```
#' @title Pokedex Number Lookup
#' @description Given a Pokedex number, get
      name of corresponding Pokemon.
#' @param pokedex_number (whole number)
      Pokedex number of Pokemon to look up.
#' @return Name of Pokemon as string
#' @export
get_pokemon_by_number <- function(pokedex_n
```

↑ **Source**

**Generated docs viewable in RStudio
?get_pokemon_by_number** →

get_pokemon_by_number {pokemon}   R Documentation

Pokedex Number Lookup

Description
Given a Pokedex number, get name of corresponding Pokemon.

Usage
```
get_pokemon_by_number(pokedex_number)
```

Arguments
`pokedex_number`   (whole number) Pokedex number of Pokemon to look up.

- **Easy enough to get started – copy and paste from another package**
- **This talk assumes you've gotten that far and will show some additional tricks**

#' Package Articles

```
#' @title Pokemon: a Demo Package for
#'    roxygen2
#' @keywords internal
#' @description Demo package for "Level Up
#'    Your Package's Roxygen
#'    Documentation," a talk about roxygen2
#'    advanced tricks at satRday Chicago
#'    2019.
#'
#'    This article is package documentation
#'    and is accesible with \code{?pokemon}
#'    or with \code{?pokemon-package}.
#' @section Check Out:
#' \url{https://chicago2019.satrdays.org/}
"_PACKAGE"
```

For a package named pokemon :
?pokemon or ?pokemon-package

pokemon-package {pokemon}   R Documentation

Pokemon: a Demo Package for roxygen2

Description
Demo package for "Level Up Your Package's Roxygen
Documentation," a talk about roxygen2 advanced tricks at
satRday Chicago 2019.

This article is package documentation and is accesible with
?pokemon or with ?pokemon-package.

Check Out
https://chicago2019.satrdays.org/

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#' Null Objects and #' @rdname

```
#' @name translate_to_pokemon
#' @title Translate text to Pokemon speech
#' @description Given a sentence of text,
#'    translate it to a particular
#'    Pokemon's speech.
#' @param sentence (character string) text
#'    to translate
#' @return Translated string
NULL
```

```
#' @rdname translate_to_pokemon
#' @examples
#' translate_to_pikachu("I want to be the
#'    very best,")
#' @export
translate_to_pikachu <-
```

```
#' @rdname translate_to_pokemon
#' @examples
#' translate_to_squirtle("Like no one ever
was.")
```

?translate_to_pokemon or
?translate_to_pikachu or
?translate_to_squirtle

translate_to_pokemon {pokemon}   R Documentation

Translate text to Pokemon speech

Description
Given a sentence of text, translate it to a particular
Pokemon's speech.

Usage
```
translate_to_pikachu(sentence)
translate_to_squirtle(sentence)
```

Arguments
sentence   (character string) text to translate

Value
Translated string

Examples
```
translate_to_pikachu("I want to be the very best,")
translate_to_squirtle("Like no one ever was.")
```

#' @inheritParams Parameter Inheritance

```
#' @title Pokedex Number Lookup
#' @description Given a Pokedex number, get
    name of corresponding Pokemon.
#' @param pokedex_number (whole number)
    Pokedex number of Pokemon to look up.
#' @return Name of Pokemon as string
#' @export
get_pokemon_by_number <- function(pokedex_n
```

```
#' @title Who's that Pokemon?
#' @description "Who's that Pokemon?" by
Pokedex number.
#' @inheritParams get_pokemon_by_number
#' @param print_result (logical) whether to
print result with \code{cat}
#' @return string
#' @export
whos_that_pokemon <- function(pokedex_numbe
```

?whos_that_pokemon

whos_that_pokemon {pokemon}   R Documentation

Who's that Pokemon?

Description
"Who's that Pokemon?" by Pokedex number.

Usage
whos_that_pokemon(pokedex_number, print_res

Arguments
pokedex_number   (whole number) Pokedex number of
                       Pokemon to look up.

print_result   (logical) whether to print result with
                       cat

Value
string

#' @inheritSection Section Inheritance

```
#' @name Wartortle
#' @title Wartortle Class
#' @description R6 class for a Wartortle.
#' @section Class Constructor:
#' \preformatted{Wartortle$new()}
#' @section Public Methods:
#' \describe{
#'     \item{\bold{\code{water_gun}}}{: The
#'         target is blasted with a
#'         forceful shot of water.}
#' }
#' @inheritSection Squirtle Public Methods
NULL
```

```
#' @name Squirtle
#' @title Squirtle Class
#' @description R6 class for a Squirtle.
#' @section Class Constructor:
#' \preformatted{Squirtle$new()}
#' @section Public Methods:
#' \describe{
#'     \item{\bold{\code{bubble}}}{: A
#'         spray of countless bubbles is
```

?Wartortle

Wartortle {pokemon}	R Documentation

Wartortle Class

Description
R6 class for a Wartortle.

Class Constructor
Wartortle$new()

Public Methods

| `water_gun` | : The target is blasted with a forceful shot of water. |
| `bubble` | : A spray of countless bubbles is jetted at the opposing Pokemon. |

#' Thank you!

@jayyqi

Materials from talk, including slides and `pokemon` toy package:

- https://github.com/jayqi/satRday-roxygen-talk

Additional resources for roxygen2:

- "Generating Rd files" roxygen2 vignette
- "Text formatting reference sheet" roxygen2 vignette