Example Report

2023-02-12

```
library(stringr)
library(ggplot2)
```

```
validate_params(
  parameters = params,
  types = list(
    'iris_file_path' ='character',
    'subset_logical' = 'logical',
    'n_subset' = 'double',
    'save_subset_file_path' = 'character',
    'titlecase_logical' = 'logical',
    'plot_theme' = 'character'
  ),
  input_files = c('iris_file_path'),
  output_files = c('save_subset_file_path'),
  overwrite = c('save_subset_file_path')
)
```

```
## [1] "Parameters Validated"
```

```
print(params)
```

```
## $save_subset_file_path
## [1] "./iris_subset.csv"
##
## $iris_file_path
## [1] "./iris.csv"
##
## $subset_logical
## [1] FALSE
##
## $n_subset
## [1] 10
##
## $titlecase_logical
## [1] FALSE
##
## $plot_theme
## [1] "ggplot2::theme_bw()"
```

Load the data from provided file path

```
data <- read.csv(params$iris_file_path)
```

Optional preprocessing depending on parameters

```
if (params$titlecase_logical) {
  data$Species <- as.factor(stringr::str_to_title(data$Species))
}

if (params$subset_logical) {
  data <- data[
    sample(1:nrow(data), size = params$n_subset),
  ]
}
```

Plot with desired theme

```
ggplot(data, aes(
  x = Sepal.Length,
  y = Petal.Length,
  color = Species
)) +
  geom_point() +
  ggtitle(paste("Plotting n =", nrow(data), "Irises")) +
  eval(parse(text = params$plot_theme))
```