sa4ss

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Getting Started

Want to create an assessment document using **sa4ss**?

Load up the package available on github (https://github.com/nwfsc-assess/sa4ss):

```
remotes::install_github("nwfsc-assess/sa4ss")
library(sa4ss)
```

Now that the package is installed in R, let's create a document.

Step 1

Set the working directory. The document template will be created in the defined location.

```
setwd("C:/Assessments/2021/copper_rockfish_2021/write_up/wa")
```

Step 2

Call the draft function to create a general document with species, authors, and title created:

```
sa4ss::draft(authors = c("Chantel R. Wetzel",
                         "Brian J. Langseth",
                         "Jason M. Cope",
                         "Theresa Tsou",
                         "Kristen E. Hinton"),
            species = "Copper Rockfish",
            latin = "Sebastes caurinus",
            coast = "Washington US West",
            type = c("sa"),
            create_dir = FALSE,
            edit = FALSE)
```

The above example will automatically populates a document for copper rockfish with the above authors and their associated affiliation. **sa4ss* has a list of common authors and their affiliations already set-up. In order for authors to be found in the available list and their affiliation the names need to be entered exactly as expected here: https://github.com/nwfsc-assess/sa4ss/blob/master/data-raw/authors.csv.

Step 3

Create an Rdata object based upon the base model. The base model can be located anywhere on your machine.

```
sa4ss::read_model(mod_loc = "C:/Assessments/2021/copper_rockfish_2021/models/base")
```

This will create an Rdata object called 00mod.Rdata in your working directory.

Step 4

Render the pdf document based on the draft template created:

```
bookdown::render_book("00a.Rmd", clean = FALSE, output_dir = getwd())
```

This will create build the pdf document which will be save directly in the working directory. However, one may prefer to have the pdf saved in a specific folder. One default approach is the call the render_book function without specifying the output_dir which will put the pdf document in a separate folder in the working directory.

```
bookdown::render_book("00a.Rmd", clean = FALSE)
```

Editing the Document

A number of documents in the specified directory should not be available. These documents correspond to different sections required by the Groundfish Terms of Reference.

When editing make sure to render the document on a regular basis by using either of the above calls to **bookdown::render_book()**. This will allow users to identify errors quickly.

Tips & Tricks

If you are creating an area-specific assessment document for species you may want to use the same text across multiple documents. This can be easily done:

```
# Directory where the document is being rendered:
wd = "C:/Assessments/2021/copper_rockfish_2021/write_up/wa"

# Directory where general text is available
other_wd = "C:/Assessments/2021/copper_rockfish_2021/write_up/general_text"

#\input{../general_text/data_m.tex}
```