Tittel på SSB-rapport

Undertittel på SSB-rapport

Forfatter1

Forfatter2

Innhold

## 1 Introduksjon

### 1.1 Første del av intro

Denne teksten er et eksempel på hvordan teksten til en SSB-rapport skrives med markdown og renderes med [Quarto](https://quarto.org/). Quarto er et open source verktøy for publisiering av dokumenter som kombinerer tekst og data-analyse. Det gir muligheten til å lage dynamiske rapporter, presentasjoner, nettsider og bøker med integrert kode.

#### 1.1.1 Nivå 4 headings

slkdløsak

##### 1.1.1.1 Nivå 5 headings

kdfjlkdsjf

|  |
| --- |
| Forklaringsboks |
| Forklaringsboks er nyttig for oppsummere et fenomen. |

## 2 Tabeller

Prøver å rendere en tabell fra markdown med kryssreferanser. Skriv denne koden:

```{markdown}  
| Default | Left | Right | Center |  
|--------:|-----:|------:|:------:|  
| 12 | 12 | 12 | 12 |  
| 123 | 123 | 123 | 123 |  
| 1 | 1 | 1 | 1 |  
: Demonstration of pipe table syntnax {#tbl-example1 tbl-colwidths="[25,25]"}  
```

Og dette blir rendert til dette i dokumentet:

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Table 1: Demonstration of pipe table syntnax   | Default | Left | Right | Center | | --- | --- | --- | --- | | 12 | 12 | 12 | 12 | | 123 | 123 | 123 | 123 | | 1 | 1 | 1 | 1 | |

Du kan referere til tabellen i teksten ved å skrive @tbl-example1 slik at tabellen blir referert slik: [Table 1](#tbl-example1).

```{python}  
1 + 1  
```

## 3 Example diagram

Vi kan produsere figurer med kode. F.eks. kan man bruke Matplotlib til dette:

```{python}  
import pandas as pd  
import matplotlib.pyplot as plt  
  
# Sample data  
data = {  
 'Category': ['A', 'B', 'C', 'D'],  
 'Value': [23, 45, 56, 78]  
}  
  
# Create DataFrame  
df = pd.DataFrame(data)  
  
# Plotting the data  
plt.figure(figsize=(10, 6))  
plt.bar(df['Category'], df['Value'], color='skyblue')  
plt.xlabel('Category')  
plt.ylabel('Value')  
plt.title('Sample Bar Plot')  
plt.grid(axis='y', linestyle='--', alpha=0.7)  
plt.tight\_layout()  
  
# Show plot  
plt.show()  
```

[Figure 1](#fig-example1) viser at ….

|  |
| --- |
| Figure 1: Et eksempel på en graf produsert med Matplotlib |

## 4 Referanser

Vi kan referere til annen litteratur ved å legge inn informasjon i bibliography.bib-fila og referere til de i teksten med en @ foran etterpå. F.eks. skrev Bruer-Skarsbø and Vigtel (2022) og Brasch et al. (2021) noen interessante artikler for noen år siden.

Strukturen til bibliography.bib er slik:

@article{bruer2022sykefravaer,  
 title={Sykefrav{\ae}r og frafall fra arbeidsmarkedet. Betydningen av sammensetningen av sykemeldte},  
 author={Bruer-Skarsb{\o}, {\O}yvind and Vigtel, Trond Christian},  
 year={2022},  
 publisher={Statistisk sentralbyr{\aa}}  
}  
  
@article{von2021modeling,  
 title={Modeling R\&D spillovers to productivity: The effects of tax credits},  
 author={von Brasch, Thomas and Cappelen, {\AA}dne and Hungnes, H{\aa}vard and Skjerpen, Terje},  
 journal={Economic Modelling},  
 volume={101},  
 pages={105545},  
 year={2021},  
 publisher={Elsevier}  
}

## 5 About Quarto Extensions formats And Quarto Journals Article

First, please get familiar with the following resources:

* [Creating Formats](https://quarto.org/docs/extensions/formats.html) in Quarto as part of the [Extensions](https://quarto.org/docs/extensions/) mechanism.
* [Journals Articles](https://quarto.org/docs/journals/) for Quarto.

## 6 Structure of this repository

Everything for the extensions is in \_extensions. See Quarto doc for details.

* In partials, you’ll find the .tex partials that can be used and should be removed or tweaked,s
* Your extension can make shortcodes and lua filters available. This document shows the effect of the one provided in the aft format.
* aft format sets some defaults which are different from pdf or html, link setting links to URL in read inside PDF output.

Source repository for this template format can found on [Github](https://github.com/quarto-journals/article-format-template)

### 6.1 \_extensions\aft

In this folder you’ll find everything that defines the extensions which could be installed using quarto install extension or be part of the template when using quarto use template

Format Metadata

This is in \_extension.yml is where all the metadata about the format are defined so that Quarto knows what to use. Adapt this file for you own template.

Partials

In partials, there are the .tex files that will be used as Pandoc’s template. We provide here all the partials supported by Quarto and custom one for this format. Quarto allows to provide partials to ease the process of tweaking the default latex Pandoc’s template and keeping it up to date.  
This template repo contains all the relevant partials that you can use with Quarto *as example*. We only tweaked title.tex to show the usage of a custom partials called \_custom.tex.  
**Only keep the partials that you need to tweak for the format you are creating**

If you need to completely change the default template (i.g customizing partials is not enough), then you need to provide your own template to Pandoc based on [template.tex](https://github.com/quarto-dev/quarto-cli/blob/main/src/resources/formats/pdf/pandoc/template.tex) and also using partials or not. This can be provided using the template YAML key in \_extension.yml for Quarto to use it.

This is considered advanced configuration as it will be harder to maintain than only using partials but could be required for some specific format. Be aware that this may lead to loose some Pandoc or Quarto features tied to default template.tex content if you remove some specific parts.

Lua Filters

Most of the time, custom formats will need Lua filters to provide specific features like cross format supports or provides custom shortcodes through the Quarto extension mechanism. Those filters will be available to the user and could be used in the custom formats (according to \_extensions metadata). We have provided two examples:

* color-text.lua, a Lua filter used to add color to inline text for PDF and HTML outputs using the same Markdown syntax
* shorcodes.lua, a Lua filter which follow [Quarto custom shortcodes](https://quarto.org/docs/authoring/shortcodes.html#custom-shortcodes) guidelines to provide a {{< LaTeX >}} shortcode to nicely print LaTeX in PDF and HTML.

**Remove or replace with your own Lua filters**

Format resources

Resources required by the format needs to be available. We have provided two examples:

* te.bst is a biblio style file for demo. It has been downloaded from https://www.economics.utoronto.ca/osborne/latex/TEBST.HTM (http://econtheory.org/technical/te.bst) - Licence [LPPL](https://www.latex-project.org/lppl/)
* aft.cls is a dummy class file for this example format. It is a copy of official article.cls, the one provided in LaTeX installation (i.e at kpsewhich article.cls) and renamed as example (Licence LaTeX Project Public License)
* custom.scss is a style file to have a custom theme for our HTML format so that our Lua filter feature color-tex.lua works.

Those files are referenced within the \_extension.yml to be used with our example format.

**Remove and replace with your own resources**

.quartoignore

Sometimes it is useful to have some files only needed for reference or for development. They should be available in the source repository but not downloaded to the user when quarto use template is used.

**Use .quartoignore to register such file and folder (one file or folder per line)**

style-guide folder

For quarto-journals format, use style-guide folder to include any documentation and resourced used for format creation, like a journal style guide or original .tex template. This folder is already added in .quartoignore in this example repo.

**Remove, rename or add to this folder**

template.qmd

This file is the template document that shows how to use the custom format. It will be downloaded with other resource by quarto use template, and even offered to be renamed if the name template.qmd is used.

This file will usually use the custom format (here aft-pdf and aft-html) and show how to use the template. When you’ll copy this template, you should be able to render this document to the demo format.

**Adapt this file to provide a suitable template for your custom format**

Other files

Other files are needed by the template and are usually user provided - they are not part of the custom format.

Here bibliography.bib is here to demo the usage of the bst file from the custom format.

**Remove this file and provide a suitable one for your template**

## 7 Checklist: Creating a custom format

Here is the checklist to help you know what to modify:

* Read the resources mentioned at the top,
* Use this template repo to create a new repository for your format (Click on “Use this template” to create new github repo)
* Once you are acquainted with the content, remove the resources that are there only as example (see above)
* Update README by replacing aft and Article Format Template mentions for your journal format
* Keep only the template partials that you need to tweak, and add custom ones if needed
* Add any Lua filters for shortcodes and other that would be useful to create the expected output format
* Add any external resource your format will need, and that should be part of the extension format that will be downloaded,
* Check \_extension.yml is updated correctly
* Modify the skeleton template.qmd to your format and add any required resources to be downloaded to user.
* Check .quartoignore is updated which everything that should not be downloaded.
* Publish a demo of you format to github pages of the repo by using quarto publish command

## 8 Demo of some features found in this demo journal template

### 8.1 Shortcode demo

PDF are rendered using LaTeX but it is best if one can use a Markdown syntax for cross format support.

LaTeX used in source is a shortcode syntax where the shortcode is included in the extension folder \_extensions

### 8.2 Code chunk

This format hide chunks by default as option has been set in \_extension.yml file.

#| prompt: true  
# Loading some data but this chunk won't be shown.  
data("quine", package = "MASS")

But you can set echo option to true locally in the chunk

#| echo: true  
m\_pois <- glm(Days ~ (Eth + Sex + Age + Lrn)^2, data = quine, family = poisson)  
summary(m\_pois)

### 8.3 Using tables

This is how you use tables and reference them:

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Table 2: Et eksempel på en tabell   | Område | kolonne1 | kolonne2 | | --- | --- | --- | | Datasett | navn | inneholder personopplysinger | | Datasett | beskrivelse | Verdivurdering | | Datasett | populasjon | bruksrestriksjoner (hvis relevant) | | Datasett | versjon | bruksrestriksjonsdato (hvis relevant) | | Datasett | versjonsbeskrivelse (ikke relevant for versjon 1) | datatilstand | | Datasett | geografisk dekningsområde | status | | Datasett |  | enhetstype | | Datasett |  | inneholder dato fom | | Datasett |  | inneholder dato tom | | Datasett |  | eier | | Datasett |  | versjon | | Datasett |  | datakilde | | Datasett |  | temporalitetstype | | Datasett |  | statistikkområde | | Datasett |  | nøkkelord | | Variabel | navn | definisjonURI/definitionUri | |

Du kryssreferer til [Table 2](#tbl-example) på denne måten.

### 8.4 Text color

Our format makes applying color on inline text possible using the [content]{color=<name>} syntax. Let’s see an example.

Here we are using a special feature of our format which is the coloring because pink is a **nice** color.

This is possible thanks to the Lua Filter included in the custom extension format.

### Using references

I did not read this book (**CameronTrivedi2013?**) but it must be interesting.

Differences between aft-html and aft-pdf:

* For the HTML format, we are using Pandoc citeproc to include the bibliography. Here reference-section-title controls the title for the chapter that will be used.
* For the PDF format, natbib is used by default and the bibliography is included with a title by the LaTeX template.

## Appendix

I am grateful for the insightful comments offered by the anonymous peer reviewers at Books & Texts. The generosity and expertise of one and all have improved this study in innumerable ways and saved me from many errors; those that inevitably remain are entirely my own responsibility.

# References

Brasch, Thomas von, Ådne Cappelen, Håvard Hungnes, and Terje Skjerpen. 2021. “Modeling r&d Spillovers to Productivity: The Effects of Tax Credits.” *Economic Modelling* 101: 105545.

Bruer-Skarsbø, Øyvind, and Trond Christian Vigtel. 2022. “Sykefravær Og Frafall Fra Arbeidsmarkedet. Betydningen Av Sammensetningen Av Sykemeldte.”