Quarto a11y feature testing

Making Quarto pdf more accessible

Yaml pre-requisites:

- lualatex engine
- full install of tinytex (bundle = "TinyTeX-2")
- `keep-tex: true` to keep the tex file for debugging

Rendering Figures

The following figures are made within a quarto doc and get produced from the R code chunks below. Their alternative text is stored in the captions_alt_text.csv file.

The add_alttext() function sourced from a11y_script.R uses the captions_alt_text.csv file to find and match the alt text to the produced figures.

- Recommended: load image still from a chunk so it's easier to add options

Ways to add alt text to figures in pdf from latex:

For non-chunk figures, user needs to specify the label for our function to work

- @ the end of the reference to figure line you can add brackets containing the alt text

```
![](figures/figure.png){alt="Here is my alt text for this image",#fig-testa}
```

- within the brackets specifting alt="text" (this method is not working though)

```
![alt=This is my alternative text for this image](figures/figure.png){#fig-testb}
```
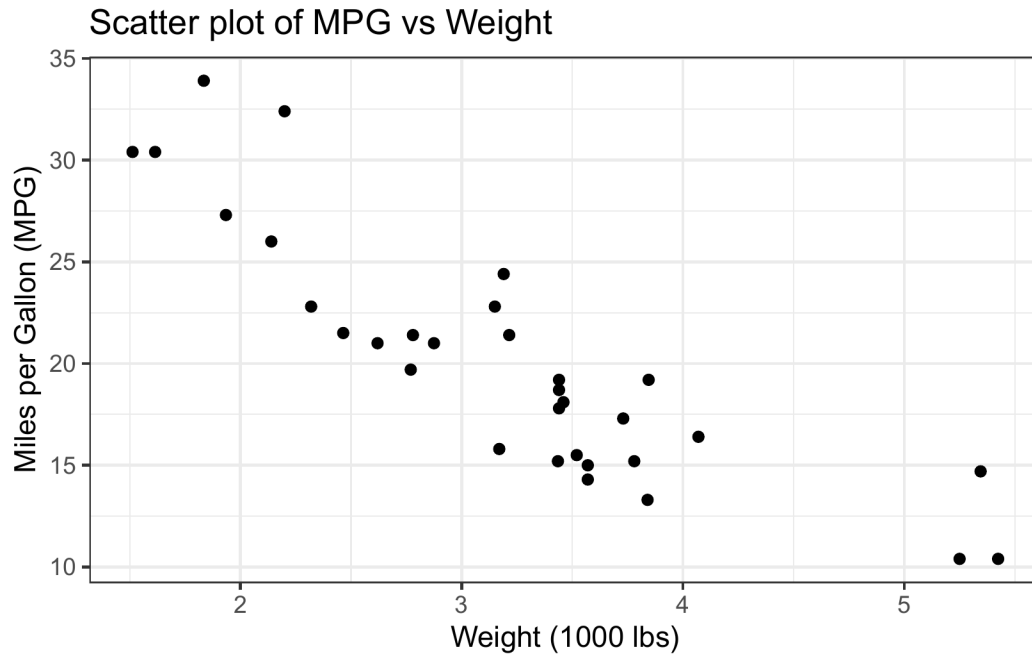
How it's done in latex

Figure 1: A scatter plot of MPG vs Weight

```
\includegraphics[keepaspectratio,alt={"This is alt text"}]{figures/figure.png}
```

> **i Note**
>
> The above method is the recommended practice and what is used in our add_alttext()
> function

```
\includegraphics[keepaspectratio]{figures/figure.png}{This is alt text.}
```

> **i Note**
>
> The above method does not work when pandoc bounded surrounds the figure and does
> not produce alt text when tagpdf is run.

Rendering Tables

The current tables produced from quarto can not be tagged and are not compatible with tagpdf.
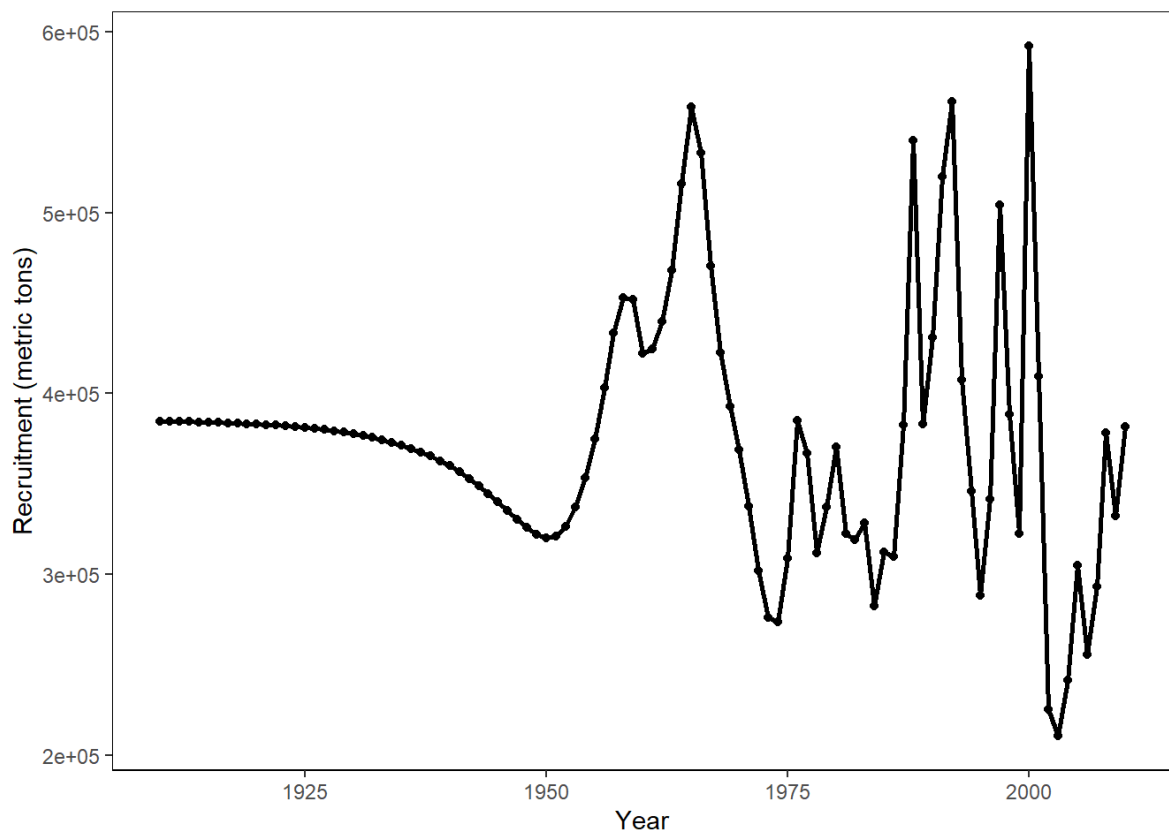A table will half compiling the document.

Figure 2: This is the caption for the second plot.

Here is alternate code that works for a table to get tagged:

Product Category	Quarter 1 Sales	Quarter 2 Sales	Growth (%)	Notes
Fruits	12,000	15,000	25.0	Seasonal peak
Vegetables	8,500	9,200	8.2	Steady growth
Grains	6,200	7,000	12.9	New product line
Dairy	9,800	10,500	7.1	Stable
Protein	7,500	8,100	8.0	Good performance

Gemini provided a range of suggestions and feedback when I fed it an example table produced from quarto. Our findings can be found in this issue. We used flextable for producing our tables and have heard there can be some incompatability issues with this whole workflow.