

# **DSP\_DNS\_Book**

Michał Lesiowski

2024-09-23

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# Preface

This is a Quarto book.

To learn more about Quarto books visit <https://quarto.org/docs/books>.

```
1 + 1
```

```
[1] 2
```

```
13 / 3
```

```
[1] 4.333333
```

```
Test test 123 i inny test
```

# Wprowadzenie

## Cel dokumentu

## Zakres systemu

## Definicje, akronimy, skróty

## Dokumenty referencyjne

## Odbiorcy dokumentu

This is a template for a simple Quarto book output to html, PDF or docx format. It includes a GitHub Action that will build the website automatically when you make changes to the files. The NOAA palette and fonts has been added to theme.scss. The webpage will be on the gh-pages branch. Serving the website files from this branch is a common way to keep all the website files from cluttering your main branch.

This is a template for a simple Quarto book output to html, PDF or docx format. It includes a GitHub Action that will build the website automatically when you make changes to the files. The NOAA palette and fonts has been added to theme.scss. The webpage will be on the gh-pages branch. Serving the website files from this branch is a common way to keep all the website files from cluttering your main branch.

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Uwaga

To jest przykładowy call-out w sekcji bocznej

---

This is a template for a simple Quarto book output to html, PDF or docx format. It includes a GitHub Action that will build the website automatically when you make changes to the files.

This is a template for a simple Quarto book output to html, PDF or docx format. It includes a GitHub Action that will build the website automatically when you make changes to the files.

Table 1: Fruit prices

fruit	price
apple	2.05
pear	1.37
orange	3.09

### Grid tables

Bardziej zaawansowany typ np dodatkowe paragrafy, bloki kodu, listy

Fruit	Price	Advantages
Bananas	\$1.34	<ul style="list-style-type: none"><li>• built-in wrapper</li><li>• bright color</li></ul>
Oranges	\$2.10	<ul style="list-style-type: none"><li>• cures scurvy</li><li>• tasty</li></ul>

### Link do 2 pages

intro

### Funckje jakie oczekuje od końcowego rozwiązania:

- Output do: PDF, DOCX, HTML
- Github Actions that will build website automatically when I make changes to the files
- Obsługa diagramów
- Konfigruacja pełna layoutu np. wygląd, czcionki poprzez theme.csss
- Templates dla

# 1 Introduction

This is a book created from markdown and executable code.

See Knuth (1984) for additional discussion of literate programming.

```
1 + 1
```

```
[1] 2
```

## 1.1 Interactivity Test

## 1.2 Test cross reference

See Figure 1.3 for an illustration

[Skocz do koniec](#)

## 1.3 Test list of figures

# List of Figures

1.1	Właściwy opis wykresu	10
1.2	Właściwy opis wykresu	10
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1.5	A full screen image	12
5.1	Beach in Chilmark	22
5.5	Simple demo R plot	24
5.6	Plot about cars data	24
5.7	Caption for first plot	25
5.8	Caption for second plot	25
5.9	mtcars	26
6.1	Beach in Chilmark	30

## 1.4 Rozdział kolejny

Test tabeli 1 2 3

Col1	Col2	Col3
1	2	3
1	2	3
3	3	3

## 1.5 Test sekcji

Poniżej RAW content z HTML

## 1.6 Rozdział drugi

Drugi rozdział

### 1.6.1 Trzeci podrozdział

Trzeci itd.. You can also do this on a per-format basis (if for example you want to provide a higher resolution image for EPUB and a lower resolution image for HTML to reduce download time). For example:

Quarto Pub is a free publishing service for content created with Quarto. Quarto Pub is ideal for blogs, course or project websites, books, presentations, and personal hobby sites.

It's important to note that all documents and sites published to Quarto Pub are publicly visible. You should only publish content you wish to share publicly.

#### 🔥 Caution

Tu znajduje się zwijana sekcja w boxie callout typu caution

#### 💡 Tip

Altair is based on Vega-Lite, a high-level grammar of interactive graphics

Właściwe linki i tu przykładowy odnośnik do mojej [[books]] książek

#### ℹ Note

A tu znajduje się callout note

Cytacik lub wcięcie takie coś...

If you haven't published to Quarto Pub before, the publish command will prompt you to authenticate. After confirming that you want to publish, your content will be rendered and deployed, and then a browser opened to view your site.

A jeśli chcemy umieścić kod to możemy to zrobić przy użyciu takiej dyrektywy jak poniżej. Może być ona też zwijana i rozwijana. To się określa w konigu yaml/

```
library(tidyverse)
penguins <- read.csv('https://raw.githubusercontent.com/rfordatascience/tidytu
drop_na()
head(penguins)
```

	species	island	bill_length_mm	bill_depth_mm	flipper_length_mm	body_mass_g
1	Adelie	Torgersen	39.1	18.7	181	3750
2	Adelie	Torgersen	39.5	17.4	186	3800
3	Adelie	Torgersen	40.3	18.0	195	3250
4	Adelie	Torgersen	36.7	19.3	193	3450
5	Adelie	Torgersen	39.3	20.6	190	3650

By "right format", we mean that the data is tidy, and ready to be summarised and graphed.

```

6 Adelie Torgersen      38.9      17.8      181      3625
  sex year
1   male 2007
2 female 2007
3 female 2007
4 female 2007
5   male 2007
6 female 2007

```

We've removed missing values here, which means that the data has 333 rows now[^1]. Ten indeks górnego przypisów ^1 coś nie chce zabłądzić

If you have an existing Quarto Pub site that you want to publish to, you should manually create a `_publish.yml` file that looks like the example above, but with the appropriate id and url values for your site.

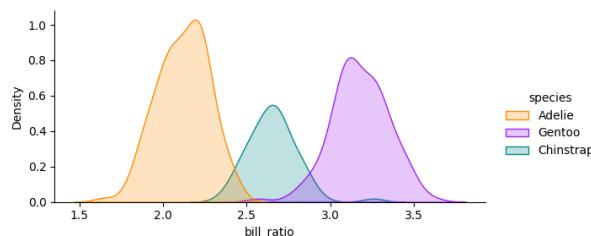


Figure 1.1: Właściwy opis wykresu

### 1.6.2 Podział na dwie kolumny

Poniżej demo jak podzielić przestrzeń na 2 kolumny

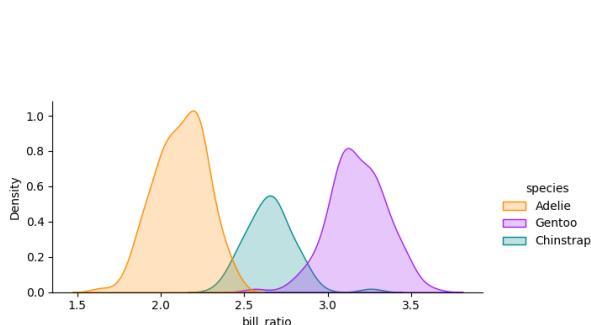


Figure 1.2: Właściwy opis wykresu

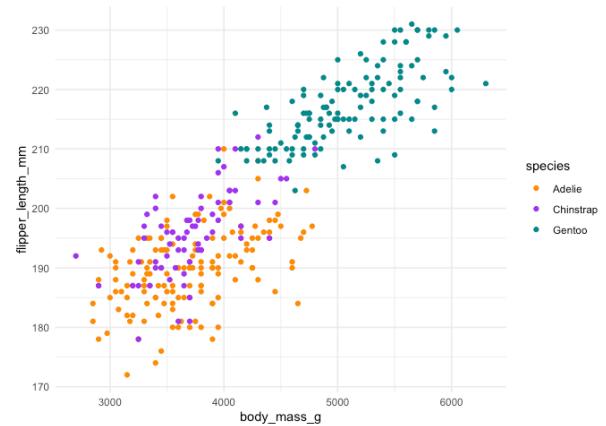


Figure 1.3: Właściwy opis wykresu

The average bill length is 43.9927928 mm and the average bill depth is 17.1648649 mm.

The data was collected between 2007 and 2009

### 1.6.3 Zewnętrzne źródło

Figure 1.4: Elephant

### 1.6.4 Dyrektywa na całą szerokość



### 1.6.5 Dyrektywa na całe okno

Dodatkowo szerokości

```
knitr::kable(  
  mtcars[1:6, 1:10]  
)
```



Figure 1.5: A full screen image

	mpg	cyl	disp	hp	drat	wt	qsec	vs	am	gear
Mazda RX4	21.0	6	160	110	3.90	2.620	16.46	0	1	4
Mazda RX4 Wag	21.0	6	160	110	3.90	2.875	17.02	0	1	4
Datsun 710	22.8	4	108	93	3.85	2.320	18.61	1	1	4
Hornet 4 Drive	21.4	6	258	110	3.08	3.215	19.44	1	0	3
Hornet Sportabout	18.7	8	360	175	3.15	3.440	17.02	0	0	3
Valiant	18.1	6	225	105	2.76	3.460	20.22	1	0	3

## **1.7 Koniec dokumentu**

### **1.7.1 Koniec strony**

Przed przerwą

Umieszczamy informacje takie a takie

## **2 Document - Sample 1**

### Software Requirements Specification

#### 0. Metryka

1. Tytuł
2. Logo/ Unikalny numer / Wersja dokumentu (wersja z Github?)
3. Data utworzenia / Data modyfikacji
4. Authors (Tabela: Name, Role, Department)
5. Historia dokumentu (Tabela: Data, Wersja, Revision Description, Revision Author)
6. Approvals (może na końcu tabela: Approval date, Approved Version, Approver Role, Approver)

#### 1. Introduction

1. Cel projektu (purpose of project)
2. Definicje, akronimy, skróty, słownik (Terms, Acronyms and Definitions)
3. Odnośniki i powiązane dokumenty (Related documents)
4. Instrukcja obsługi (opcja)

#### 2. Opis systemu

1. Zakres (Scope)
  1. Funkcjonalności z zakresie (In Scope Functionality)
  2. Poza zakresem (Out of Scope Functionality)
2. Kontekst systemu - Opis systemu, jak system będzie wpasowany w otoczenie, interakcje z innymi systemami
- 3.

#### 3. Goals

4. Functional Requirements
5. Non-functional requirements
6. User Stories
7. Wireframes
8. Acceptance Criteria

9. Rules

10. Assumptions and Constraints

RACI? co jeszcze, tabele - User Stories,

Makiety - opis tabelki do tego,

Lightbox

Test GIT i jak katalog tych dokumentów

---

# 3 Tables

## 3.1 Tables

Poniżej znajdują się przykładowe tabele. Zerknij

### 3.1.1 Markdown Tables

Ten tekst jest formatowany przez CSS i jest

Table 3.1: My Caption

Default	Left	Right	Center
12	12	12	12
123	123	123	123
1	1	1	1

When reviewing a document you often want to provide inline comments with suggested revisions. This is possible in Quarto using HTML comments (which are ignored by all output formats). Visual mode includes a command for inserting HTML comments as well as special highlighting treatment to easily parse out editing comments from surrounding text. No text.

## 3.2 See

Zobacz tu cross reference -> Table 3.1

### Historia zmian

Table 3.2: Historia wersji dokumentu

Data zmiany	Wersja dokumentu	Kto zmienił	Opis zmiany
08.11.2023	1.0	Jan Kowalski	Utworzenie dokumentu

Data zmiany	Wersja dokumentu	Kto zmienił	Opis zmiany
01.03.2024	1.1	Jan Kowalski	Aktualizacja - słownik konfigurator, podgląd zgłoszenia (przycisk edycja), powiadomienia o akcji
06.05.2024	1.2	Jan Kowalski	Aktualizacja makiet, Baza zgłoszeń mechanizm edycja/zapisz, dodanie szablonów email do wysyłki informacji z podglądu zgłoszenia - raport wstępny, raport końcowy.

Powyższa tabela mogłaby zaciągać informacje z Commit w te miejsca oraz numery wersji



## 4 Galery

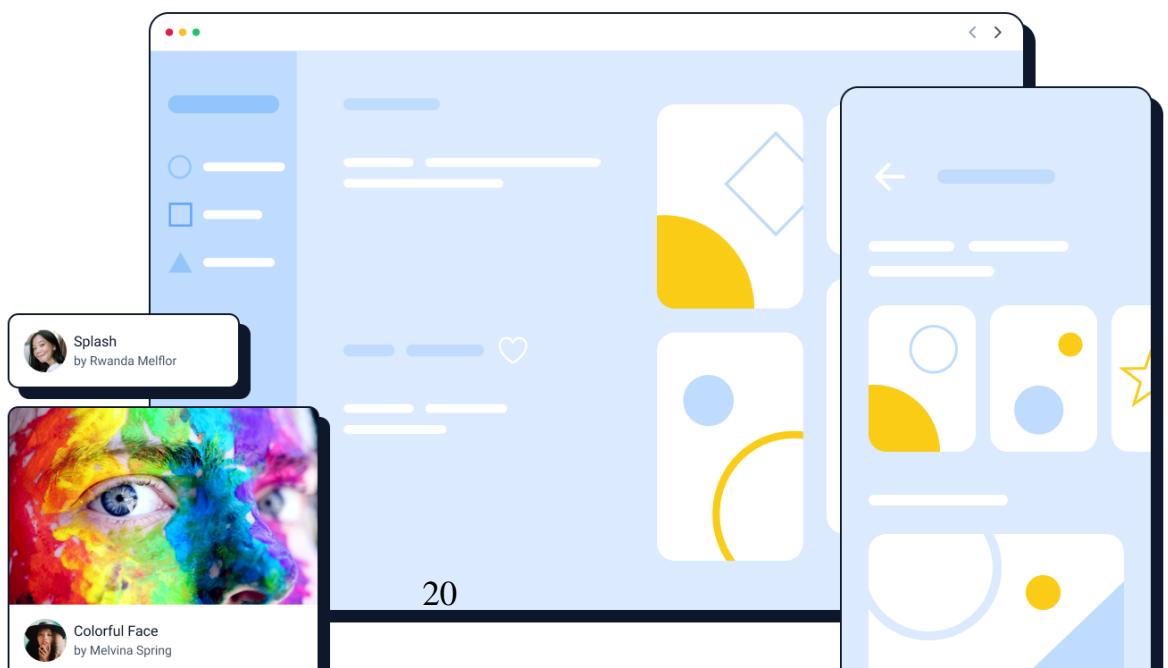
The screenshot shows the homepage of the breakio website. At the top, there is a navigation bar with links for Explore, Solutions, About, Blog, Log In, and a prominent purple "Start Now" button. The main heading "It's time to take a break" is displayed in a large, bold, purple font. Below it, a subtext reads "Build your meditation skills with an app that gives you all you need!". There is a text input field labeled "Enter your name" and another purple "Start Now" button. A large, rounded rectangular image in the center features three people (two men and one woman) looking at a laptop screen together, suggesting collaboration or shared content.

{#fig-

## Get better everyday

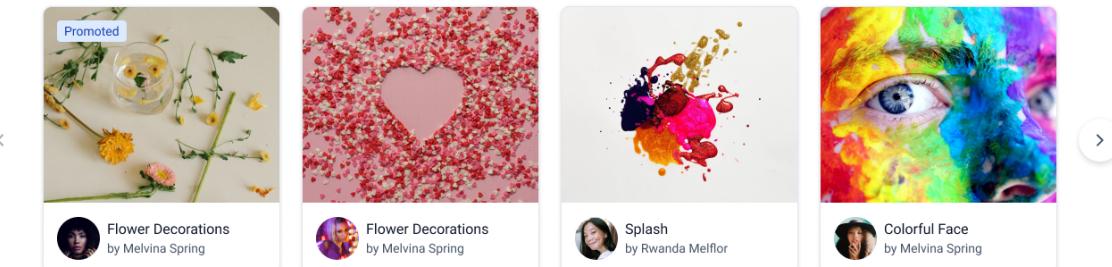
Et pulvinar nec interdum integer id urna molestie porta nullam. A, donec ornare sed turpis pulvinar  
purus maecenas quam a. Erat porttitor pharetra sed in mauris elementum sollicitudin.

[Start Now](#)



## Stories from our users

Et pulvinar nec interdum integer id urna molestie porta nullam. A, donec ornare sed turpis pulvinar  
purus maecenas quam a. Erat porttitor pharetra sed in mauris elementum sollicitudin.



## What other users say

### Placerat feugiat senectus

Ultricies pharetra arcu turpis dui massa interdum lorem.  
Viverra nunc quisque congue tincidunt potenti. Tellus, enim  
vel habitasse commodo ultrices aenean ultricies.



Jane Doe  
Senior Designer

## 5 Example Lightbox Document

### 5.1 Chilmark

Here is a simple image with a description. This also overrides the description position and places it to the left of the image.

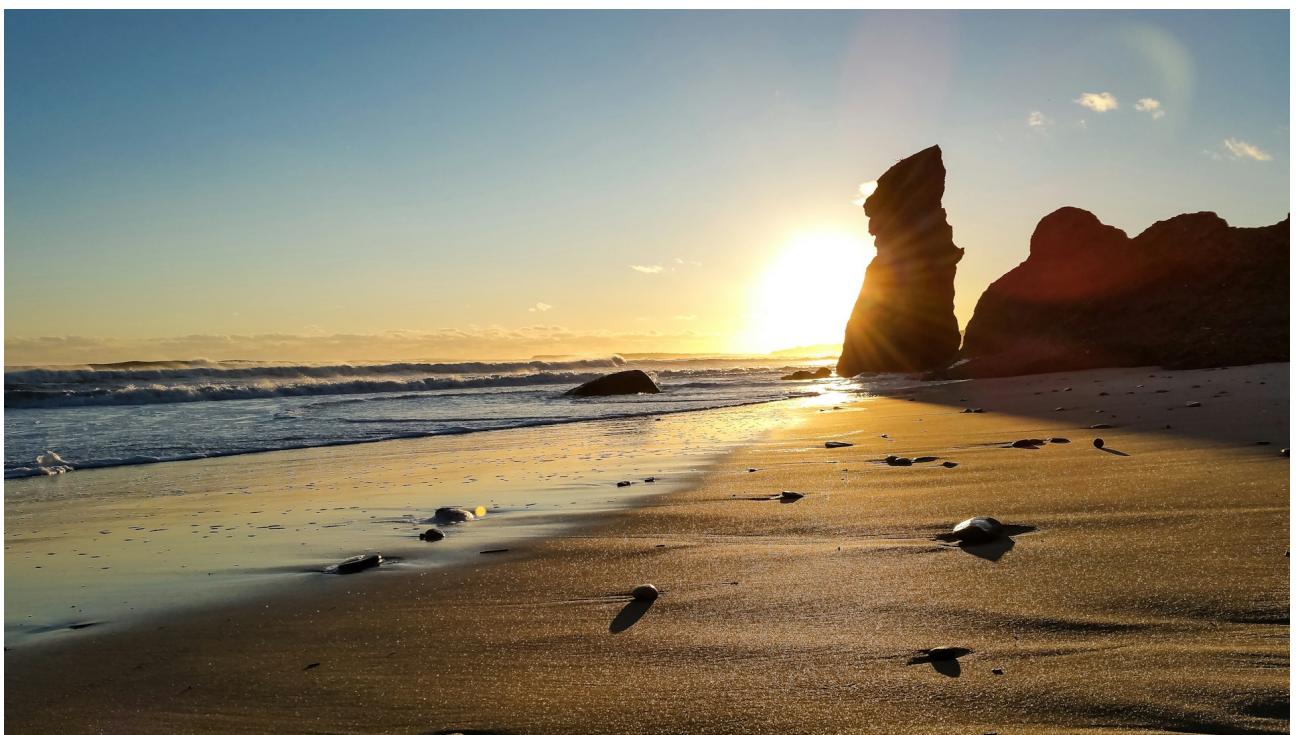


Figure 5.1: Beach in Chilmark

### 5.2 Elsewhere

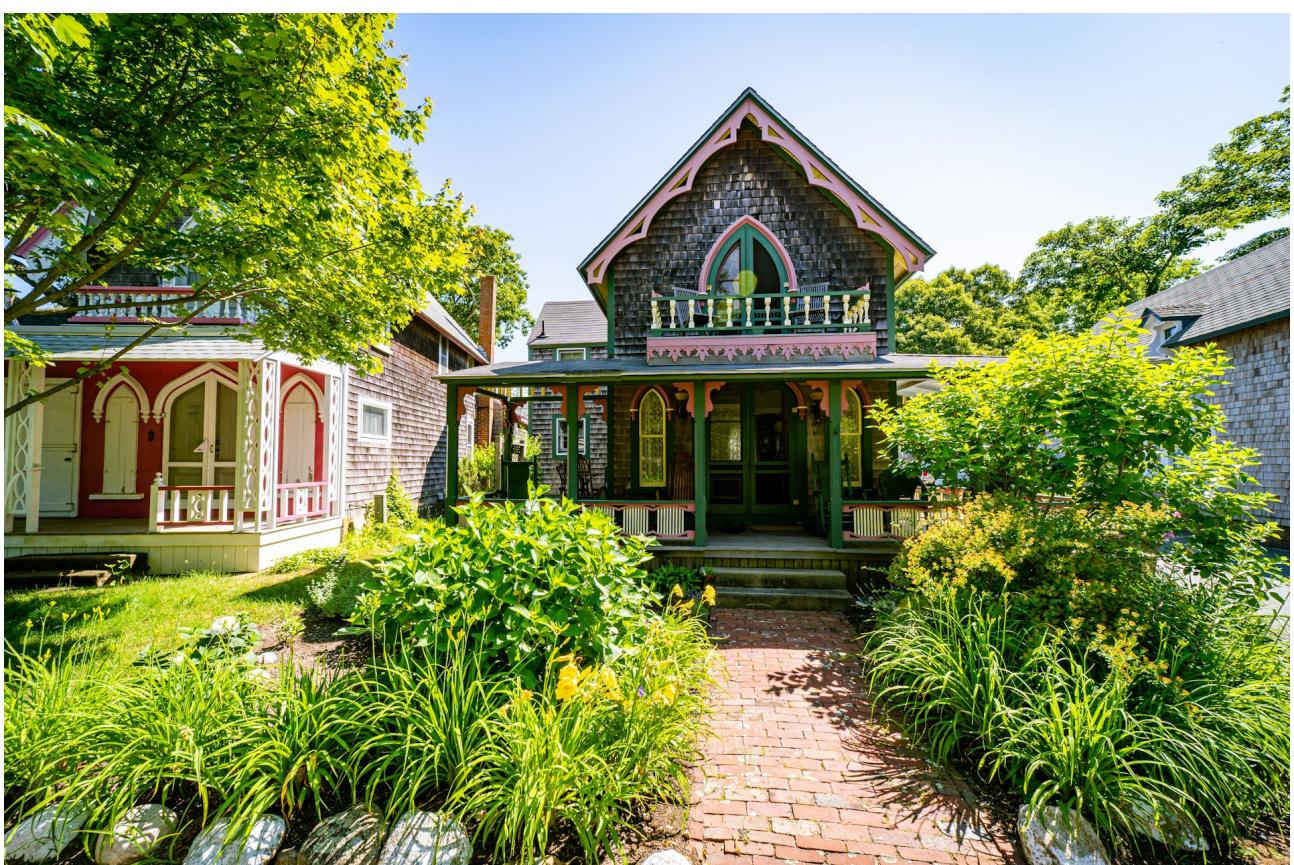
The below demonstrates placing more than one image in a gallery. Note the usage of the `layout-ncol` which arranges the images on the page side by date. Adding the `group` attribute to the markdown images places the images in a gallery grouped together based upon the group name provided.



(a) Aquinnah



(a) Oak Bluffs



(a) Vineyard lighthouse

### 5.3 With computation code chunks

Options for lightbox can be passed using chunk options.

```
plot(1:10, rnorm(10))
```

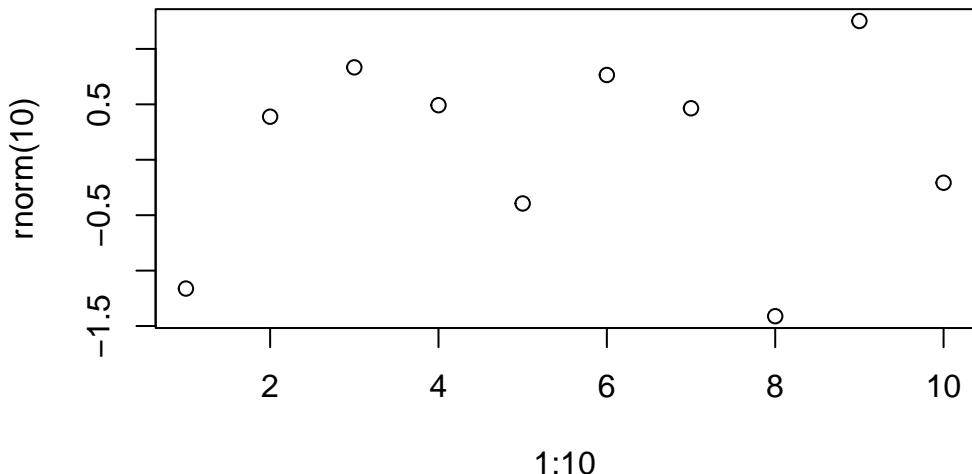


Figure 5.5: Simple demo R plot

```
plot(cars)
```

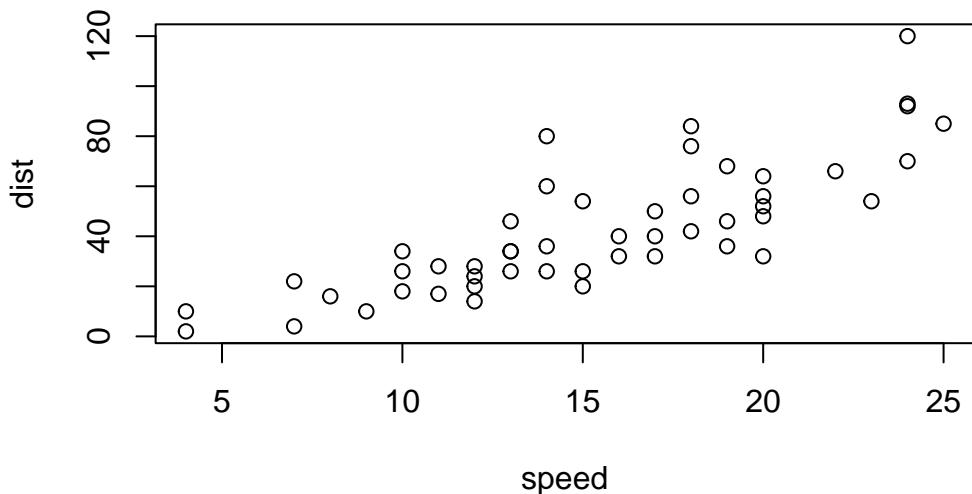


Figure 5.6: Plot about cars data

It is possible to create several plots, and group them in a lightbox gallery. Use list in YAML for options when you have several plots, on per plot.

```
plot(mtcars)
```

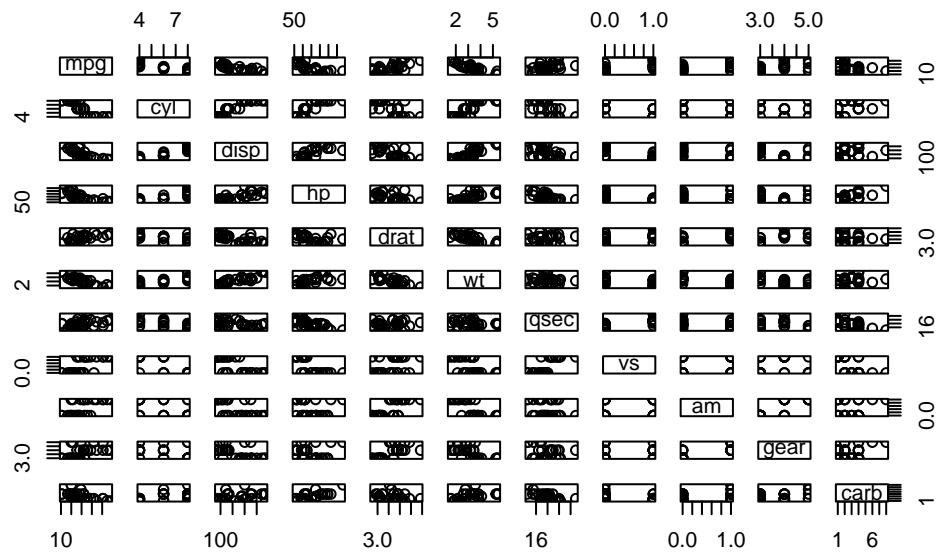


Figure 5.7: Caption for first plot

```
plot(cars)
```

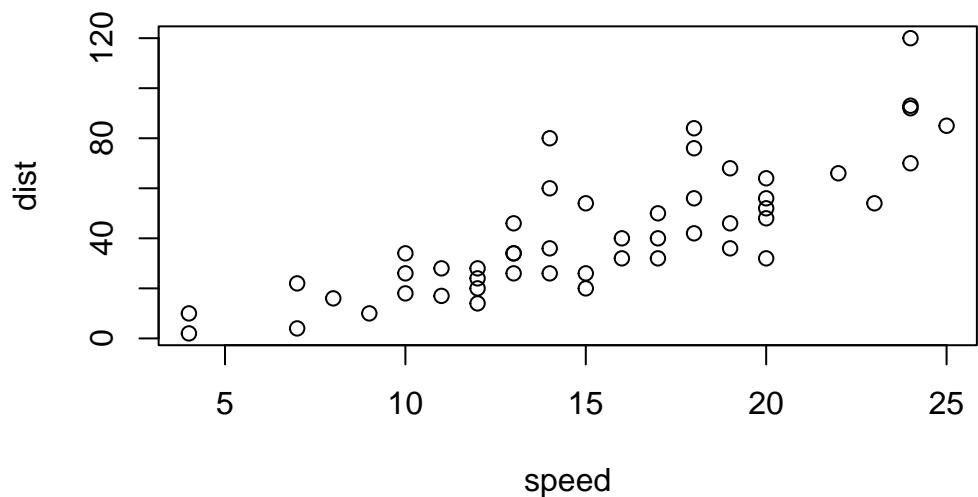


Figure 5.8: Caption for second plot

When `lightbox: auto` in main YAML config, you can opt-out lightbox on a plot by setting `lightbox: false`

```
plot(mtcars)
```

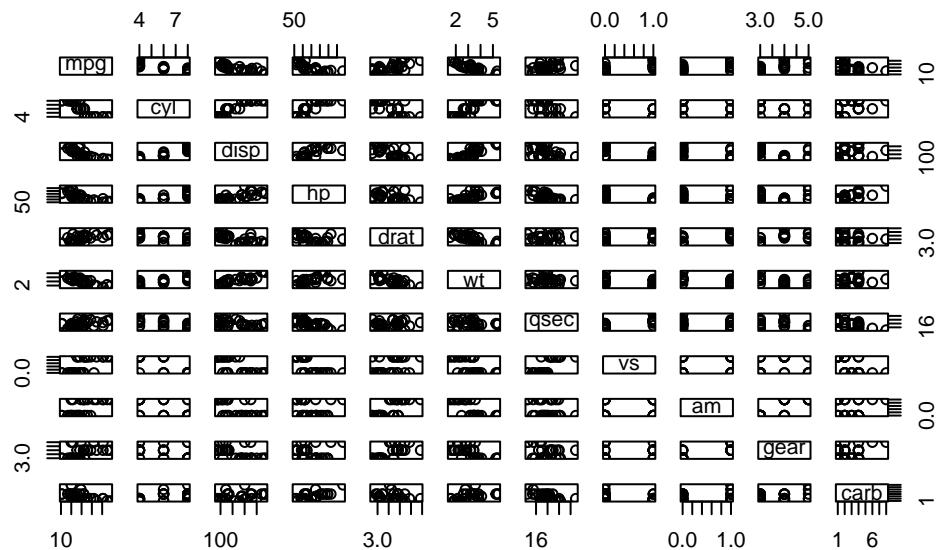


Figure 5.9: mtcars

## 5.4 Credits

The images in this example were used under the [Unsplash license](#), view originals below:

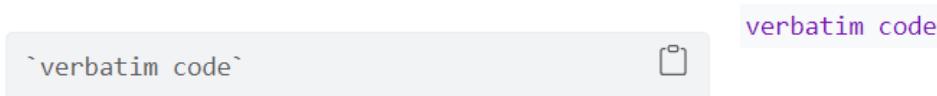
- [Chilmark Beach](#)
- [Aquinnah](#)
- [Gingerbread House](#)
- [Edgartown Light](#)
- [Edgartown Sailboat](#)

## 6 \_Przykłady elementów

Poniżej elementy do zastosowania w DSP.

### 6.1 Formatowanie

- **Verbatim code**



Tu jest verbatim code

---

- **Term definition**

**Term 1** definicja terminu

---

- **Block quotes**



To jest block quotes

---

- **HTML własny np. odstęp**

<div style="margin-top: 30px;"></div>

lub przez klasy:

```
::: {style="margin-top: 100px;"}  
:::
```

---

- Podświetlenie tekstu mark

```
<mark> To jest zmarkowany tekst </mark>
```

---

- Ukrycie elementu

```
:::::: {.content-hidden unless-format="html"}  
will only appear in HTML  
  
::::: aside  
::: {.callout-note collapse="true"}  
# Uwaga  
  
To jest przykładowy callout w sekcji bocznej.  
:::  
:::::  
:::::::
```

---

## 6.2 Callouts

- Podstawowe callouts

Caution

Tu znajduje się zwijana sekcja w boxie callout typu caution

```
::: {.callout-caution collapse="true"}  
Tu znajdują się zwijana sekcja w boxie callout typu caution  
:::
```

Tip

Altair is based on Vega-Lite, a high-level grammar of interactive graphics

```
::: callout-tip  
Altair is based on Vega-Lite, a high-level grammar of interactive graphics  
:::
```

Note

A tu znajduje się callout note

```
::: callout-note  
A tu znajduje się callout note  
:::
```

## ! This is Important

Danger, callouts will really improve your writing.

```
::: callout-important
## This is Important

Danger, callouts will really improve your writing.
:::
```

---

## 6.3 Kolumny

- **Trzy kolumny**

This is a template for a simple Quarto book output to html, PDF or docx format. It includes a GitHub Action that will build the website automatically when you make changes to the files.

```
::: {layout-ncol=3}

Kolumna 1
Kolumna 2
Kolumna 3
:::
```

---

- **Dwie kolumny**

This is a template for a simple Quarto book output to html, PDF or docx format. It includes a GitHub Action that will build the website automatically when you make changes to the files.

This is a template for a simple Quarto book output to html, PDF or docx format. It includes a GitHub Action that will build the website automatically when you make changes to the files.

```
:::: {.columns}
::: {.column width="30%"}
This is a template for a simple Quarto book output to html, PDF or docx format. It includes a GitHub Action that will build the website automatically when you make changes to the files.
:::
::: {.column width="10%"}
:::
::: {.column width="60%"}
This is a template for a simple Quarto book output to html, PDF or docx format. It includes a GitHub Action that will build the website automatically when you make changes to the files.
::::
```

---

## 6.4 Grafiki

- **Lightbox**

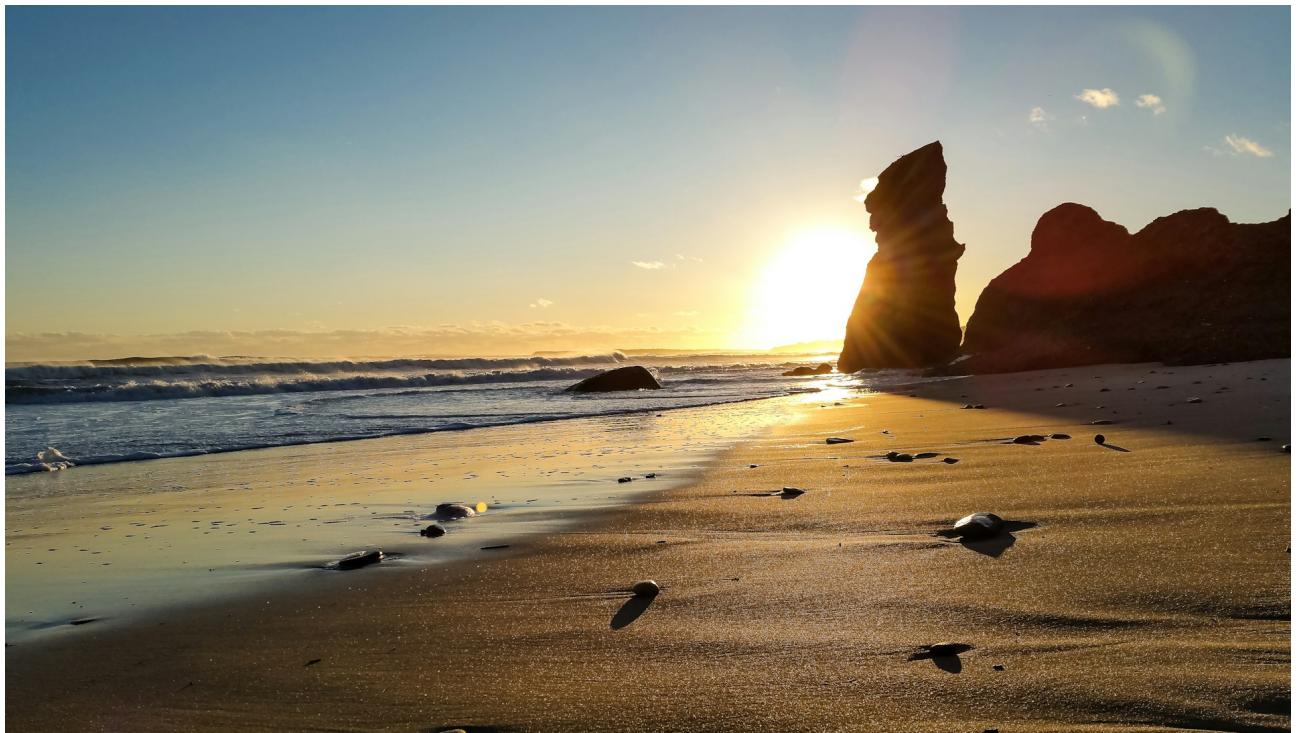


Figure 6.1: Beach in Chilmark

```
![Beach in Chilmark](images/mv-0.jpg){description="chilmark has a reputation as having some of the best beaches on Martha's Vineyard. Chilmark beaches are resident only in the summer , so be sure to have your proof of residency ready if you'd like to visit one of these special places. _credit:_ [chilmark Beach](https://unsplash.com/photos/vBDJGOMCwps)" desc-position="left"}
```

---

- **Lightbox grupa**

The below demonstrates placing more than one image in a gallery. Note the usage of the layout-ncol which arranges the images on the page side by date. Adding the group attribute to the markdown images places the images in a gallery grouped together based upon the group name provided.

```
## Elsewhere
```

The below demonstrates placing more than one image in a gallery. Note the usage of the `layout-ncol` which arranges the images on the page side by date. Adding the `group` attribute to the markdown images places the images in a gallery grouped together based upon the group name provided.

```
::: {layout="[[1, 1], [1]]"}  
![Aquinnah](images/mv-1.jpg){group="elsewhere" description="The waves break off the coast of Aquinnah on a beautiful summer day."}  
![oak Bluffs](images/mv-3.jpg){group="elsewhere" description="Oak Bluffs is famous for its Gingerbread cottages, busy town center, and party like atmosphere."}  
![vineyard lighthouse](images/mv-2.jpg){group="elsewhere" description="The Edgartown Lighthouse is a short walk from downtown and has beautiful views over the entrance to Edgartown Harbor."}  
:::
```

## 6.5 Asides

- **Aside boczne**

[By "right format", we mean that the data is tidy, and ready to be summarised and graphed.]{.aside}

By "right format", we mean that the data is tidy, and ready to be summarised and graphed.

- **Aside boczne callout**

```
::: {.aside}  
::: {.callout-note collapse=true}  
# Uwaga  
To jest przykładowy callout w sekcji bocznej.  
:::  
:::
```

To jest przykładowy callout w sekcji bocznej.

## 6.6 Tabs

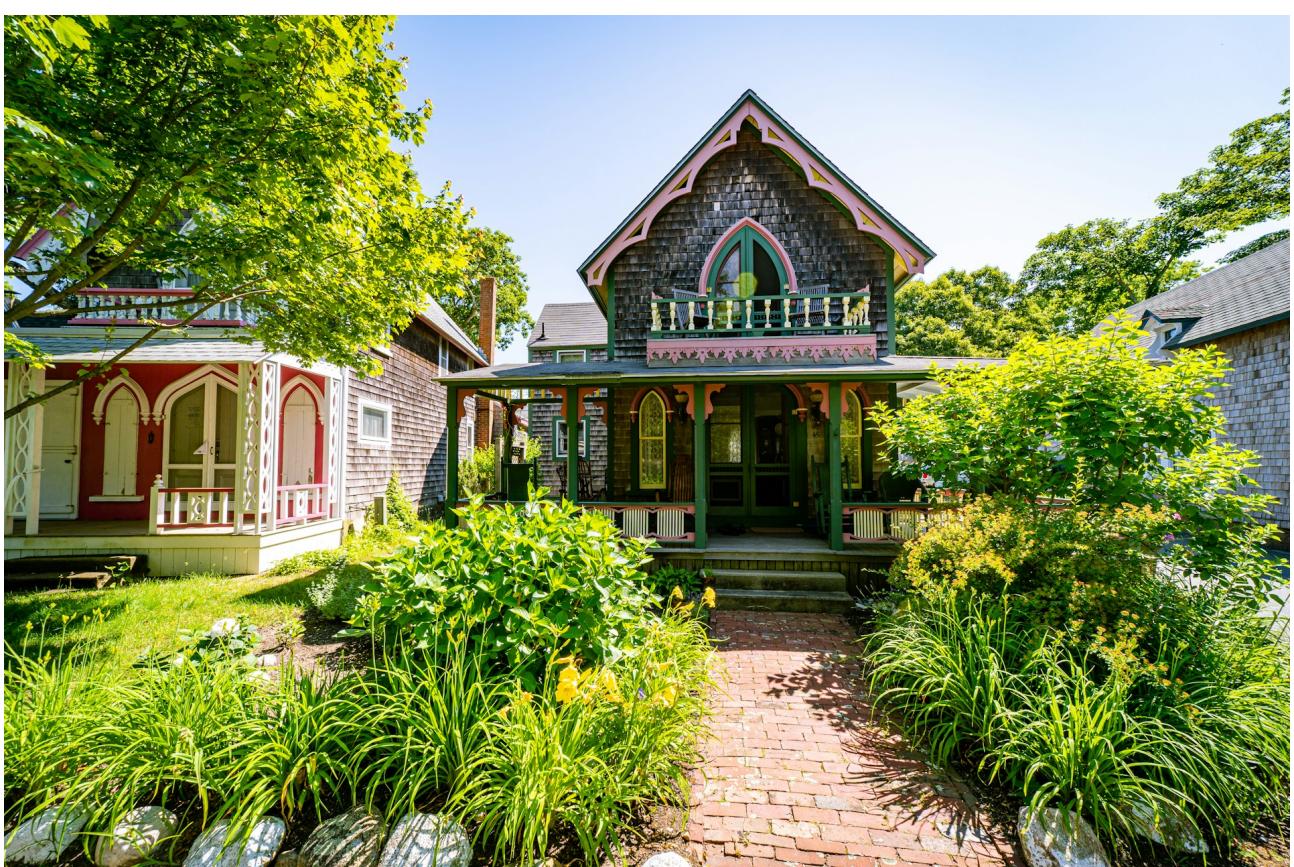
- **Tabsy**



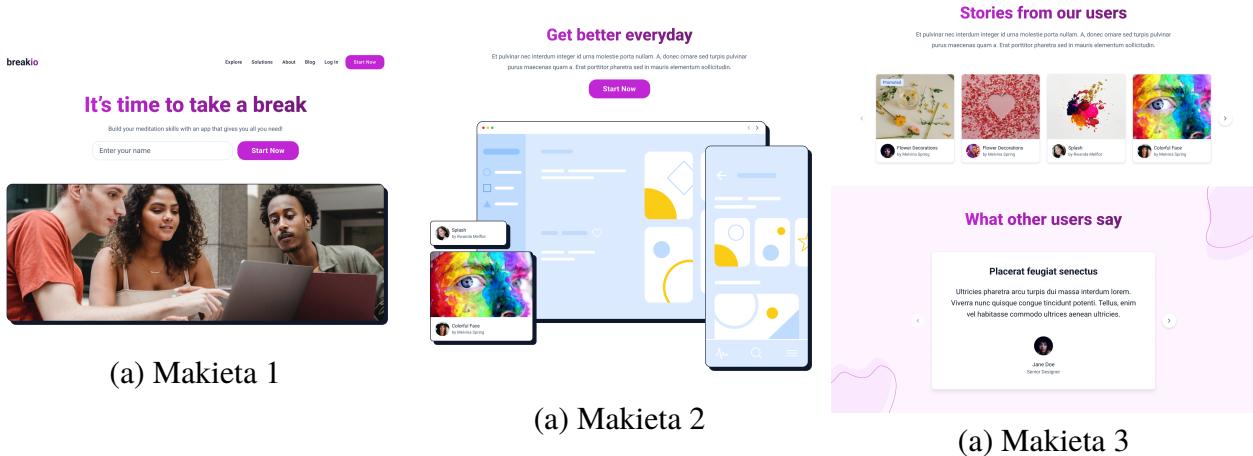
(a) Aquinnah



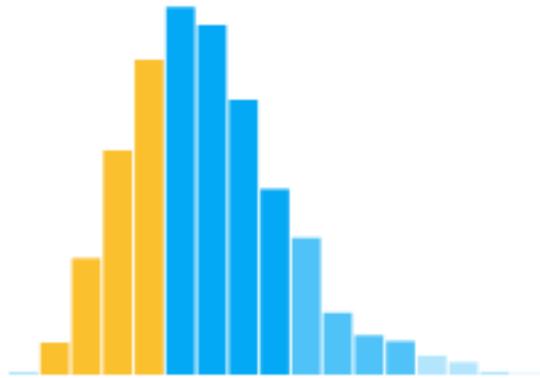
(a) Oak Bluffs



(a) Vineyard lighthouse



### 6.6.1 Plots



### 6.6.2 Data

If you want to allow users to toggle between multiple visualizations, use a `tabset` (`div` with class `.panel-tabset`). Include a heading (e.g. `##`) for each tab in the `tabset`.

For example, here are a plot and data each presented in their own tab.

```
::: {.panel-tabset}

### Plots


### Data
If you want to allow users to toggle between multiple visualizations, use a tabset (div with class .panel-tabset). Include a heading (e.g. ##) for each tab in the tabset.

For example, here are a plot and data each presented in their own tab.

:::
```

## 6.7 Glossary

Test słowa w słowniku, który jest tu zlikowany to We want to define the term **data frame** in the glossary

Test słowa w słowniku, który jest tu zlikowany to we want to define the term [data frame](glossary.qmd#glossary-data-frame) in the glossary

a w samym słowniku glossary.qmd definiujesz pojęcie:

[Data frame]{#glossary-data-frame}

: For our purposes, data frames are just R's term for data set or data table. Data frames are made up of columns (variables) and rows (observations). In R, all columns of a data frame must have the same length.

## References

- Knuth, Donald E. 1984. “Literate Programming.” *Comput. J.* 27 (2): 97–111. <https://doi.org/10.1093/comjnl/27.2.97>.

# A Glossary

**Console** Coming soon.

**Data frame** For our purposes, data frames are just R's term for data set or data table. Data frames are made up of columns (variables) and rows (observations). In R, all columns of a data frame must have the same length.

**Functions** Coming soon.

- **Arguments:** Arguments always go *inside* the parentheses of a function and give the function the information it needs to give us the result we want.
- **Pass:** In programming lingo, you *pass* a value to a function argument. For example, in the function call `seq(from = 2, to = 100, by = 2)` we could say that we passed a value of 2 to the `from` argument, we passed a value of 100 to the `to` argument, and we passed a value of 2 to the `by` argument.
- **Returns:** Instead of saying, “the `seq()` function *gives us* a sequence of numbers...” we could say, “the `seq()` function *returns* us a sequence of numbers...” In programming lingo, functions *return* one or more results.

**Global environment** Coming soon.

**Objects** Coming soon.