# Building a Quarto book using Nix on Github Actions

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19/10/2023

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# Welcome!

## This book template gets built on Github Actions at each push

This Quarto book template gets automatically built on Github Actions each time you push changes. To ensure reproducibility, the Nix package manager gets used to install all the dependencies you need:

- An R version;
- A library of R packages;
- Quarto;
- TeXLive packages;
- any other system-level dependency that is required.

Because a specific `nixpkgs` revision gets used, *exactly* the same pieces of software get *always* installed. So you don't need to pin a specific version of R, nor use `{renv}`, nor make sure to use a fixed version of a runner (typically ubuntu-22.04) to ensure reproducibility of your book. The next chapter explain how Nix works in more detail and why it's enough to use it to ensure reproducibility.

Each time a commit gets pushed, a website gets built, an Epub for E-ink readers (such as the Kindle or the Kobo) and a PDF

*Welcome!*

get built. The PDF is also in the right format and ready for self-publishing on Amazon Kindle Direct Publishing.

# Preface

Nix is really useful, so here's a template that uses it to build the book on Github Actions.

# 1 The end

In conclusion, Nix rocks.