AN EASY, AUTOMATIC, FLEXIBLE WEBSITE TEMPLATE FOR LABS

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INTRODUCTION

Research labs need a professional and up-to-date website to showcase their work, attract collaborators, and establish an online presence, but developing and maintaining one can be challenging and time consuming. Lab Website Template is an open-source, code-based tool that automates citation generation, repo configuration, and anything else it can, letting labs focus more on research and less on web development and grunt work.

APPROACH

Before v1.0, we gathered many observations and direct feedback that shaped our approach. Some things we noticed:

- (a) The most **common pain points were about the same things**, like repo setup and configuring key options.
- **X** Labs can't waste time on basics or low-level details, but still need ways to customize things.
- Labs want to see that a tool is **actively maintained**, strongly sold by good support.

Some philosophies we adopted to address these needs:

- Doing > instructing. Aggressively experimenting with GitHub Actions and scripting, we found we could automate much more setup/config/etc. than we thought.
- **Don't let issues languish**. We respond quickly and discuss suggestions to make people feel heard, even if actual resolution takes longer.
- **Keep it simple and focused**. We earnestly consider all feedback, but also don't accept every suggestion at face value to avoid feature/config bloat (inner-platform effect).
- Code/comments aren't enough. We have a full GitBook docs site with examples, FAQs, diagrams, search, etc. Labs can help themselves for common things, which saves us time for more novel work.
- Cleanly structure content. We separate template content from user content so labs can focus on just what's important to them, but still look "under the hood" when needed.

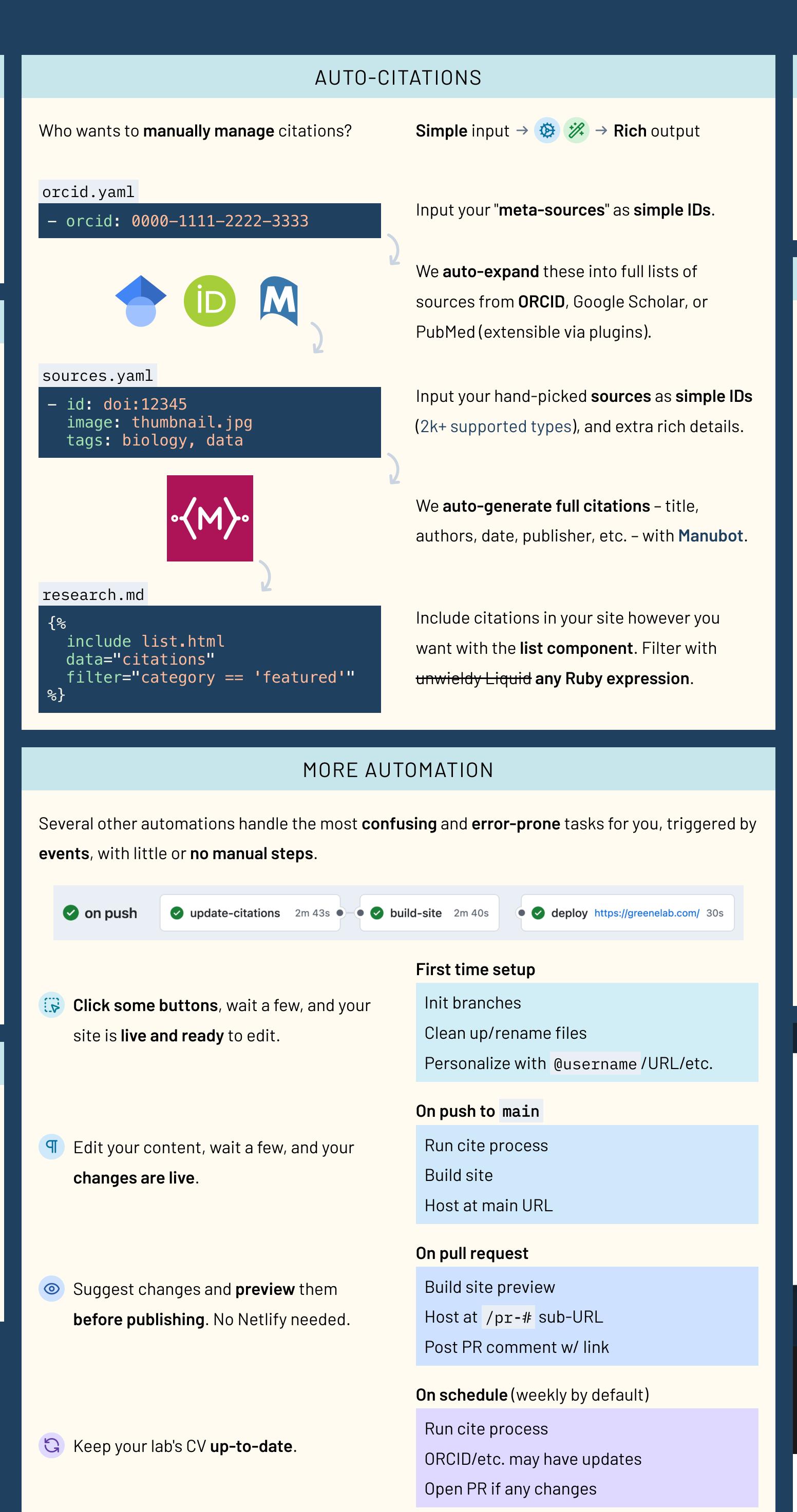
TECHNOLOGIES

Static site generator. Long-lived. Plugin-rich. Pages for hosting. Actions for automation. **rkdown** For content. Liquid for templating. For auto-cite scripts. Familiar for researchers. Runs template locally. Cross-platform. Single install. Ruby For data filtering. Jekyll plugins, other misc.

TEMPLATE





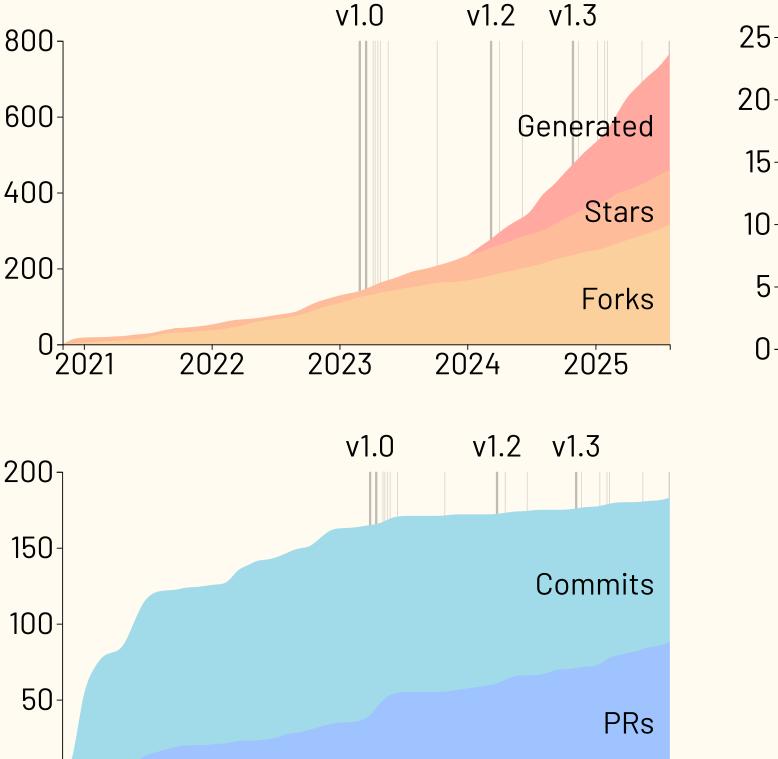


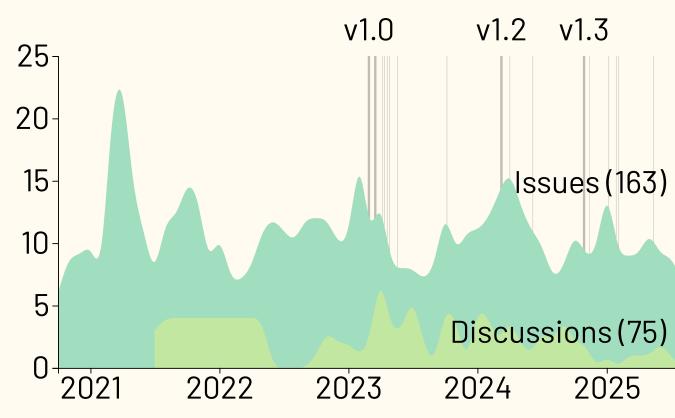


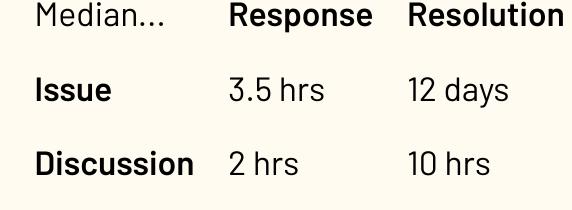
- Figures, tables, math, banners, and more. Suite of pre-made **building blocks**...
- **Team** member **bios**, roles, socials, etc. Blog posts with tags and rich content.
- (the contraction of the contract Dark mode. Desktop and mobile design.

OUTCOME

We believe our approach and design lead to a valuable piece of software, evidenced by the template's growing adoption on GitHub, positive feedback, and gallery of active labs using it. This work has likely saved researchers and others significant time and money, reflecting a community resource that effectively serves the needs of its users.







The **next evolution** could focus on even more convenience, simplicity, robustness, and flexibility. We'd like to use a more modern site generator with type-safety, make template version upgrades automatic, and make citations even more seamless.

