

# Creating a Website

From soup to... soup

Mike O'Brien

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- What is a website?
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# Why a website?

## Warning

These are opinions!

Publish or **perish**.

But what is “publishing”?

# Publishing?

Peer-reviewed manuscripts

*Digital Scholarly Journals are Poorly Preserved: A Study of 7 Million Articles Eve 2024.* Journal of Librarianship and Scholarly Communication.

## Warning

58.38% of works were present in at least one archive. 27.64% were seemingly unpreserved.

Only 0.96% of Crossref members (n = 204) can be confirmed to digitally preserve over 75% of their content in three or more of the archives that we studied.

# Publishing ?

- Blogs
- Final Reports
- Indexed by Google Scholar and other aggregators
- Can attain DOI (persistence)



# Why a website?

- Communication
  - more people have phones than computers, especially in underprivileged communities (2020 US Census)
- Lasting; take it with you when you go
- Professionalism
  - You are going to be “Googled”
  - gReEnDaYFANxx@yahoo.com

**Setting up a website**

# Purchase a domain

- \$1+ per year (usually \$5-\$20 per year)
  - <https://www.namecheap.com/>
  - <https://www.squarespace.com/>
  - <https://www.godaddy.com/>



# Domain Name System (DNS)

- Under the hood, websites are named with gibberish, also known as an IP address (“Internet Protocol”)
  - IPv4: 192.168.1.1
  - IPv6: 2400:cb00:2048:1::c629:d7a2
- DNS translates this to something readable
  - myawesomefilssite.com

# DNS Records

Type ▲	Name	Content
A	obrien.page	185.199.111.153
A	obrien.page	185.199.110.153
A	obrien.page	185.199.109.153
A	obrien.page	185.199.108.153
AAAA	obrien.page	2606:50c0:8003::153
AAAA	obrien.page	2606:50c0:8002::153
AAAA	obrien.page	2606:50c0:8001::153
AAAA	obrien.page	2606:50c0:8000::153
CNAME	_domainconnect	connect.domains.google.com
CNAME	matos	mhpob.github.io
CNAME	otndo	mhpob.github.io
CNAME	rvdat	mhpob.github.io
CNAME	www	mhpob.github.io
MX	obrien.page	route3.mx.cloudflare.net
MX	obrien.page	route2.mx.cloudflare.net

# DNS Records

Type	Name	Content
A	awesomesite.com	123.456.7.8
AAAA	awesomesite.com	1234:abc5:1234::abc
CNAME	subdomain (www)	wheremysiteishosted
TXT	web_verification	Yes, this is actually me!

# Nameservers

Tell the world what server holds the other records.

Type	Value
NS	ns.exemplens.com

- I use Cloudflare as it has a good bit of protections and services for free.
- **Including email forwarding!!**
- Involves changing the nameserver listed with your provider to Cloudflare and verifying

# Verification

- **Google Sites:** TXT and (sometimes) CNAME
- **Canva:** A and TXT
- **GitHub:** A and AAAA
- **WordPress.com:** A and CNAME

# What is a website?

- A folder with files in it
- Three challenges:
  - Creating the stuff that goes in the folders (website development)
  - Making sure other people can see the stuff (web hosting/content management system)
  - ~~Making sure other people can't mess with the stuff (cyber security)~~

# Pick a web hosting service

- Yourself
  - Good luck. (Security)
- Someone else – “A server somewhere in Arlington”
  - Digital Ocean
  - Cloudflare
  - Amazon

# Pick a web hosting service and design

- WordPress.com
- Squarespace
- Wix



# Email


mikeob9@gmail.com 🙄

Maybe... this could be more professional.

Assuming you're using GMail and Cloudflare:

# Set up Cloudflare

Adjust DNS settings as noted above to switch website to Cloudflare

CLOUDFLARE

← obrien.page ▶

Overview

Analytics & Logs

DNS

**Records**

Settings

Email

SSL/TLS

Security

Access

Speed

Caching

Workers Routes

Rules

DNS

## Records

Manage DNS records of your domain.

[DNS records documentation](#)

Recommended steps to complete zone set-up

✓ [Use wizard to add a DMARC policy](#) and choos

DNS management for obrien.page

Review, add, and edit DNS records. Edits will go once saved.

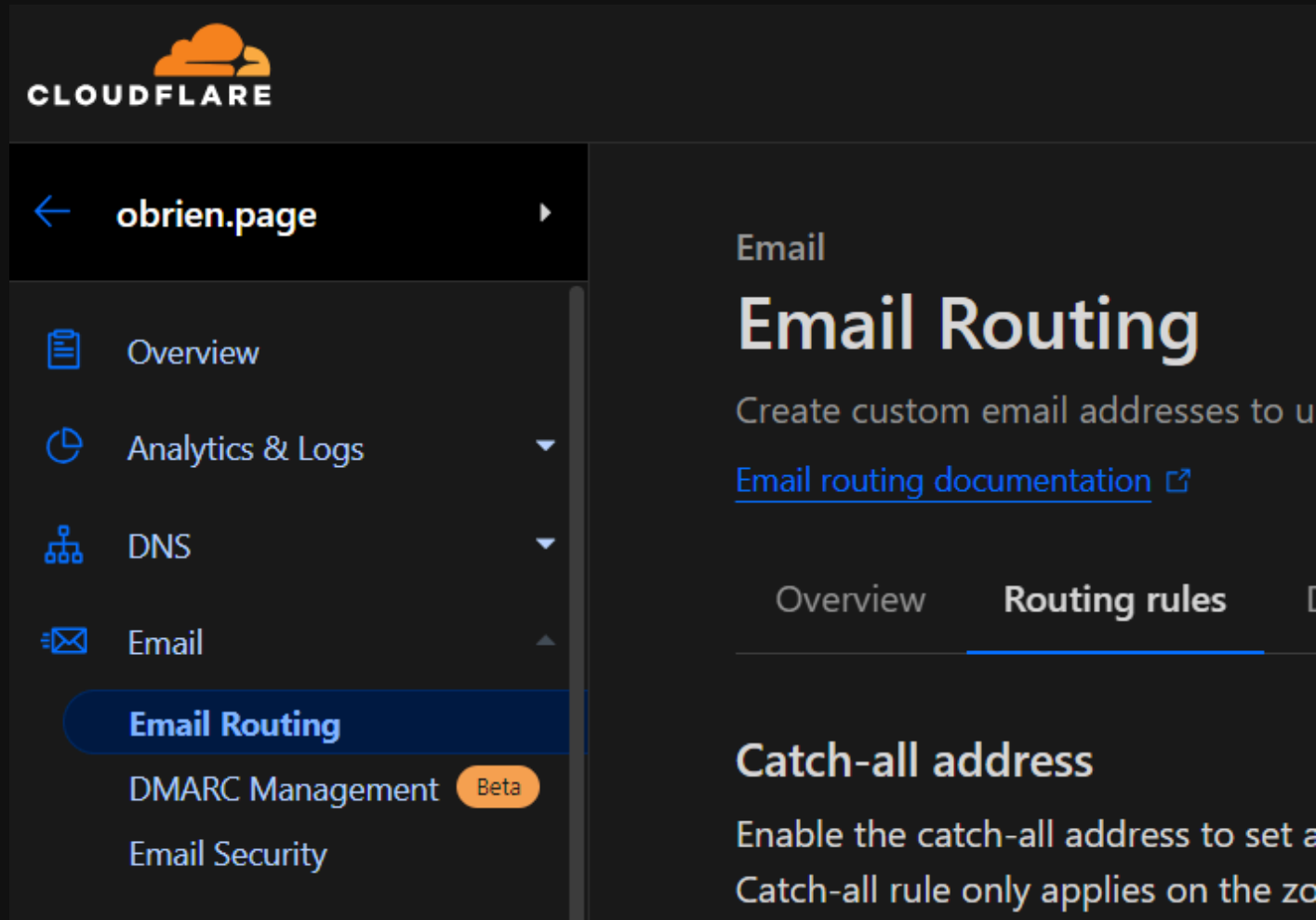
Search DNS Records

Add filter

Type ▲	Name
A	obrien.page

# Set up email forwarding

Email > Email Routing > Routing Rules > Create address



The screenshot shows the Cloudflare dashboard interface. At the top left is the Cloudflare logo. Below it, a breadcrumb trail shows the navigation path: a back arrow, the domain 'obrien.page', and a forward arrow. A left-hand sidebar contains a list of navigation items: 'Overview' (with a document icon), 'Analytics & Logs' (with a clock icon), 'DNS' (with a network icon), 'Email' (with an envelope icon), 'Email Routing' (highlighted in blue with an envelope icon), 'DMARC Management' (with a 'Beta' badge), and 'Email Security'. The main content area is titled 'Email' and 'Email Routing'. It includes a sub-header 'Create custom email addresses to u' and a link for 'Email routing documentation' with an external link icon. Below this is a tabbed interface with 'Overview' and 'Routing rules' (the active tab). The 'Routing rules' section is titled 'Catch-all address' and contains the text: 'Enable the catch-all address to set a' and 'Catch-all rule only applies on the zo'.

**Cloudflare**

← obrien.page →

- Overview
- Analytics & Logs
- DNS
- Email
- Email Routing**
- DMARC Management Beta
- Email Security

Email

## Email Routing

Create custom email addresses to u

[Email routing documentation](#)

Overview **Routing rules**

### Catch-all address

Enable the catch-all address to set a

Catch-all rule only applies on the zo

# Make Google key

Manage Google Account > Security > Two-step verification

Google Account

Search Google Account

Home

Personal info

Data & privacy

Security

People & sharing

How you sign in to Google

Make sure you can always access your Google Account by keeping this information up to date

2-Step Verification

On since Jan 14, 2021

Passkeys and security keys

3 passkeys

Password

Last changed Oct 19, 2022

# Make Google key

## App passwords

### App passwords

App Passwords aren't recommended and are unnecessary in most cases. To help keep your account secure, use "Sign in with Google" to connect apps to your Google Account.

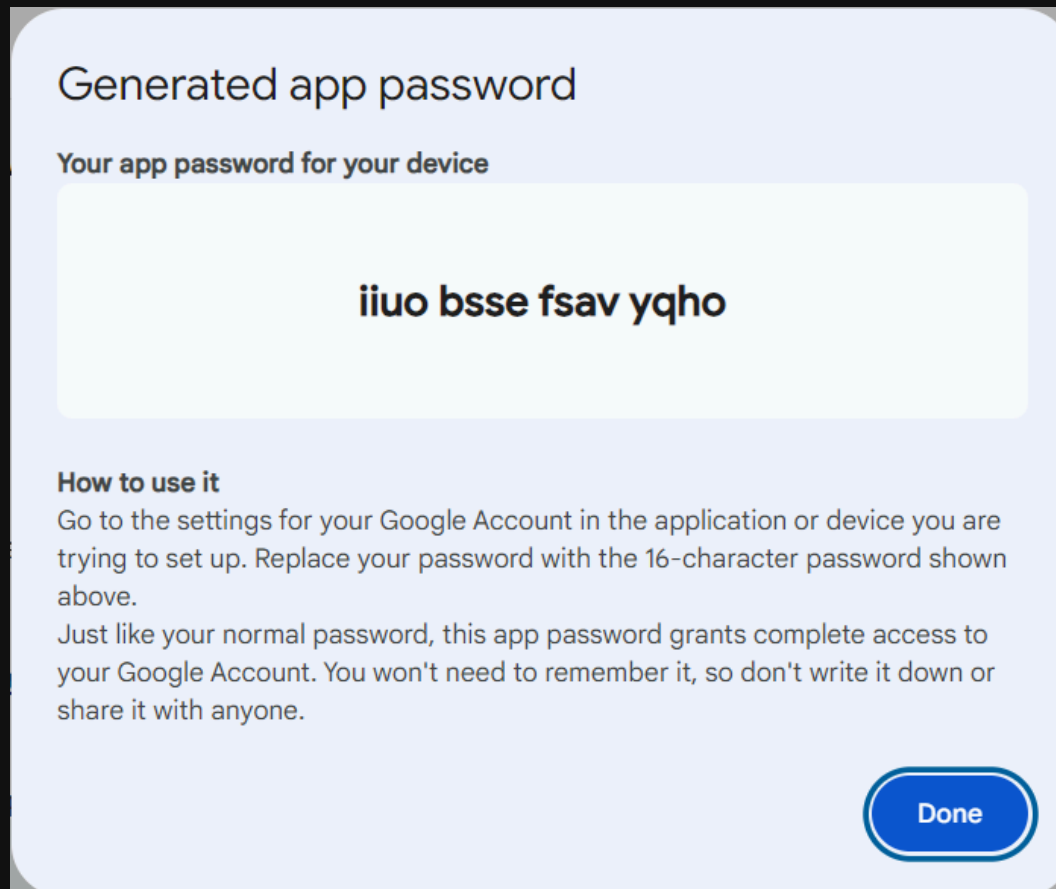
#### App passwords

3 passwords



# Make Google key

Create a new app name, it will provide a password. Copy this; you'll never see it again!



# Set up forwarding

Accounts > Send mail as > Add another email address

## Settings

General   Labels   **Inbox**   Accounts   Filters and Blocked Addresses   Forwarding and

Chat and Meet   Advanced   Offline   Themes

**Send mail as:**   Mike O'Brien <obrien@umces.edu>

(Use University of Maryland  
Center for Environmental  
Science Mail to send from your  
other email addresses)

[Add another email address](#)

[Learn more](#)

# Set up forwarding

Put your new forwarding email in the “Email address” box.

## Add another email address you own

**Enter information about your other email address.**

(your name and email address will be shown on mail you send)

Name:

Email address:

☒ Treat as an alias. [Learn more](#)

[Specify a different "reply-to" address](#) (optional)

Cancel

Next Step »



# Set up forwarding

Paste the app key made above into the “Password” box.

## Add another email address you own

### Send mail through your SMTP server

Configure your mail to be sent through superprofessional.com SMTP servers [Learn more](#)

SMTP Server:  Port:

Username:

Password:

☒ Secured connection using [TLS](#) (recommended)






☐ Secured connection using [SSL](#)

# Time check

Soup to nuts?

# Register domain

## Recently Active in Your Account


All	Products		Expiration
<div> cblseminars.com</div> <div> ADD CATEGORY</div> <div> You have 15 days left to verify contact info.</div>			<div>Mar 15, 2025</div> <div>Domain</div>

Recommended for you [Hide](#)

# Register with Cloudflare

## Add your website or application to Cloudflare

Optimize and monitor security, performance, and reliability for your visitors.

[Follow our guided learning path](#) 

### Enter your domain

This will be the name of the space where you apply Cloudflare configurations and monitor impact on your website or application.

Enter domain name (example.com)

**Continue**

Or, [register a new domain](#) with Cloudflare Registrar.

# Register with Cloudflare (free)

**Support**  
Ticket.

**Support**  
Chat, plus ticket.

**Support**  
24x7x365 email, chat, and phone.

**Free**

**\$0**

**Support**  
Community and developer docs.

For personal or hobby projects.

**Core Features**

- ✓ Fast, easy-to-use DNS
- ✓ Unmetered DDoS Protection

- ✓ Global CDN
- ✓ Universal SSL Certificate
- ✓ Free Managed Ruleset
- ✓ Simple bot mitigation

**3** Page Rules  
**5** WAF Rules ⓘ

[Which plan is right for you?](#)

Continue

# Change Nameservers

## Change your nameservers

[← Back](#)

### cblseminars.com is not active on Cloudflare yet

Update the nameservers at your registrar to activate Cloudflare services for this domain.

This process makes Cloudflare your authoritative DNS provider, allowing your DNS queries and web traffic to be served from and protected by our network.

**i** In most cases, this process will not cause downtime, but you may skip this for now to double-check [your DNS records](#) and pre-configure other settings before activating (you can find these instructions again later on the [Overview](#) page).

### 1. Log in to your domain registrar

[Find your registrar on ICANN WHOIS](#) [↗](#)

### 2. Avoid DNS resolution issues caused by DNSSEC

Look at the list of DNS records at your registrar. If DS records are listed, you have two options:

- [Turn DNSSEC off with these per-provider instructions](#) [↗](#) at least 24 hours before updating your nameservers. *Most common*
- [Migrate your existing DNS zone without turning off DNSSEC.](#) [↗](#) *More advanced*

*Recommended:* [Turn DNSSEC on through Cloudflare](#) [↗](#)

### 3. Update your nameservers

Find the list of nameservers at your registrar. Add both of your assigned Cloudflare nameservers, remove any other nameservers, and save your changes.

*Your assigned Cloudflare nameservers:*

# Change Nameservers

NAMESEVERS

?

Custom DNS

▼

✓

✗

nameserver2.ns.cloudflare.com

nameserver1.ns.cloudflare.com

+

ADD NAMESERVER

# Change DNS settings to point to GitHub










Instructions here

Search DNS Records

▼ Add filter

Search

+ Add record

Type ▲	Name	Content	Proxy status	TTL	Actions
A	cblseminars.com	185.199.111.153	 Proxied	Auto	<a href="#">Edit</a> ▶
A	cblseminars.com	185.199.110.153	 Proxied	Auto	<a href="#">Edit</a> ▶
A	cblseminars.com	185.199.109.153	 Proxied	Auto	<a href="#">Edit</a> ▶
A	cblseminars.com	185.199.108.153	 Proxied	Auto	<a href="#">Edit</a> ▶
AAAA	cblseminars.com	2606:50c0:8003::153	 Proxied	Auto	<a href="#">Edit</a> ▶
AAAA	cblseminars.com	2606:50c0:8002::153	 Proxied	Auto	<a href="#">Edit</a> ▶
AAAA	cblseminars.com	2606:50c0:8001::153	 Proxied	Auto	<a href="#">Edit</a> ▶
AAAA	cblseminars.com	2606:50c0:8000::153	 Proxied	Auto	<a href="#">Edit</a> ▶
CNAME	www	umces-cbl.github.io	 Proxied	Auto	<a href="#">Edit</a> ▶



# Create Quarto website

Make website: <https://quarto.org/docs/websites/>

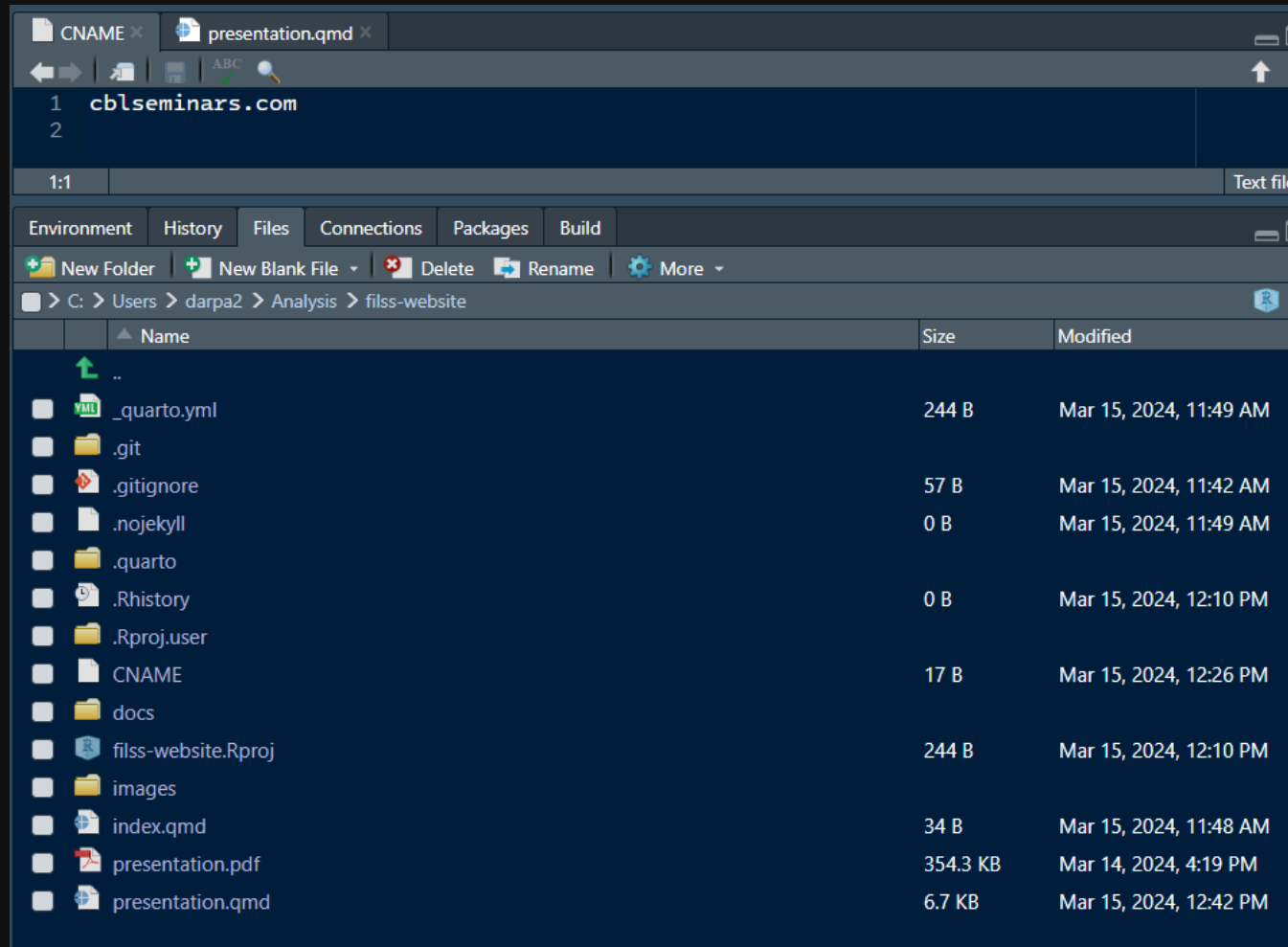
Push website to GitHub:

<https://quarto.org/docs/publishing/github-pages.html>

(If you need to get set up with Git, which can be a pain, follow the guides here: <https://happygitwithr.com/>)

# Add CNAME

Add CNAME file to root of directory and push to GitHub.



# Add custom domain

Environments

Pages

Custom properties

Security

Code security and analysis

Deploy keys

Secrets and variables

Integrations

GitHub Apps

Email notifications

Your GitHub Pages site is currently being built from the `/docs` folder in the `main` branch. [Learn more about configuring the publishing source for your site.](#)

main

/docs

Save

Learn how to [add a Jekyll theme](#) to your site.

Your site was last deployed to the `github-pages` environment by the `pages build and deployment` workflow. [Learn more about deploying to GitHub Pages using custom workflows](#)

## Custom domain

**Custom domain**

Custom domains allow you to serve your site from a domain other than `umces-cbl.github.io`. [Learn more about configuring custom domains.](#)

www.cblseminars.com

Save

Remove

● DNS Check in Progress

