

### Slides & Links at:

www.SoFibonacci.com

Let's Nostr!

\*Intro\*

Get to know us!

### Father-Daughter Team:

- Soph: HS senior with college coming soon
- Leo: Delivery manager of SW teams



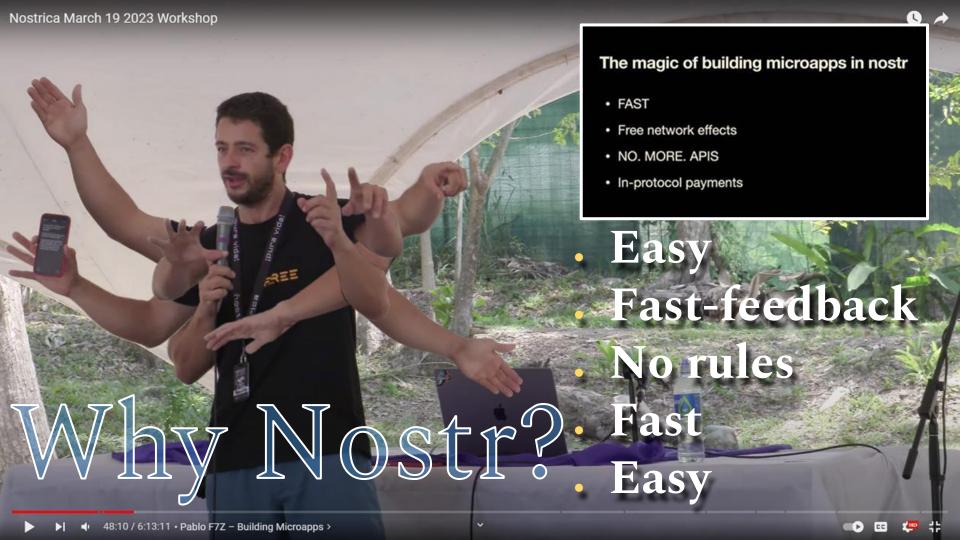
## Who we are...

#### Interest In:

- Freedom Tech
- FOSS
- Meeting cool people

### Mission

- Prepare Soph for university studies in CS
- Get some quality Father-Daughter time
- Learn useful programming practices & tools
- BUILD the NOSTR



Let's Nostr!

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### Our Process

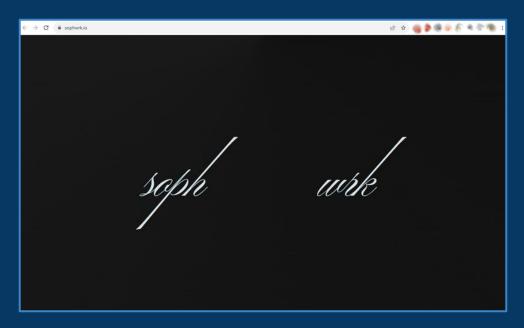
- Use short iterations (1 week)
  - Make a plan on Sunday
  - Work solo or pairing Monday to Saturday
  - Sunday demo / inspect
- Mom was our scrummaster

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\*Demo<sub>\*</sub>

Our Projects





Simple site for contact, portfolio, zapping.

Use Case for Nostr:
Display page owner's latest posts

Simplicity: \*\*\*\*

# Pair-Programming



#### Renefits.

- Can work quickly
- Share knowledge
- Great onboarding tool
- Efficient way to overcome hard coding problems
- Two brains instead of one



### Resources





#### Build And Deploy A SvelteKit Markdown Blog

21K views • 6 months ago



Joy of Code

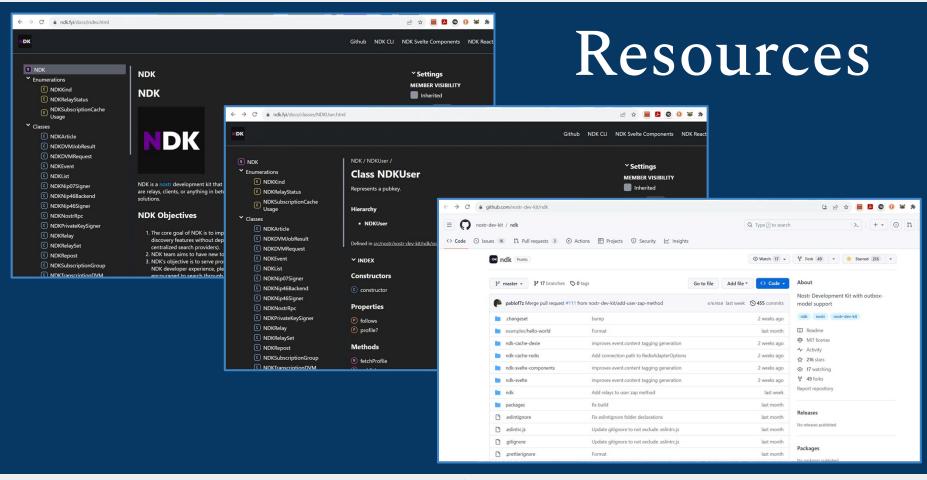
Learn how to build and extend a blazingly fast SvelteKit Markdown blog for poets. & Support 🔼 YouTube Membership ...

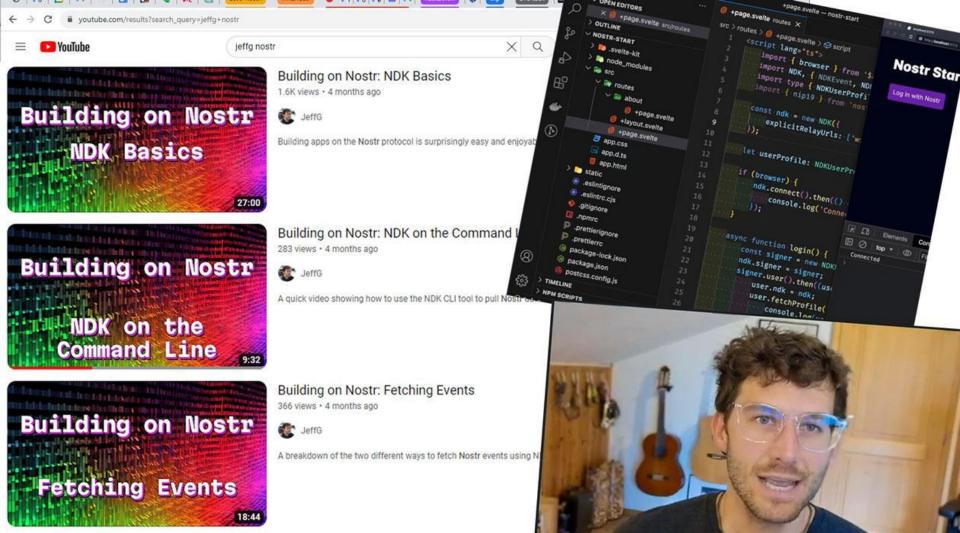


Intro | Project Setup | Layout And Styles | Setting Up Mdsvex | Posts API Endpoint | Showing Posts |... 16 chapters 💛

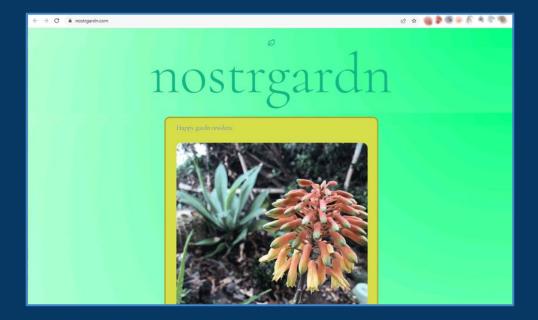








# nostrgardn.com





Simple site for displaying pictures of nature, gardens.

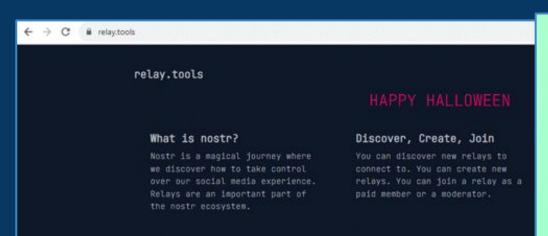
#### Use Case for Nostr:

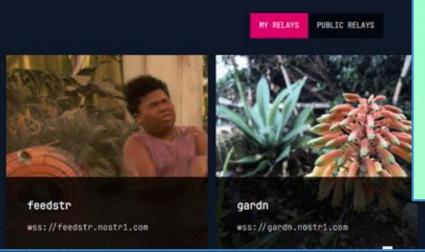
Simple relay from <a href="https://relay.tools/">https://relay.tools/</a>

21,000 sats (~\$5.49) for 1 year

Simplicity: \*\*\*\*

Regex, Style...

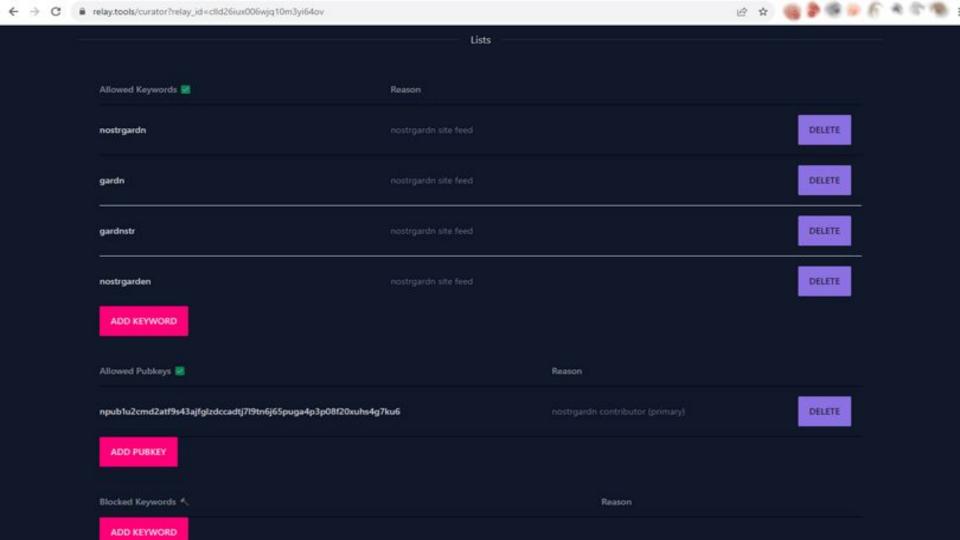




- 1. Is the post coming from our specific relay?
  - Yes; continue:
- 2. Is the post coming from our white label pubkey(s)?
  - Yes! Print the full kind 1 event.

    Future implementations may only display posts that meet specific conditions (have photos, use tags, etc.), but for now we display any k1 event.
  - No, it's from another pubkey. Continue:
- 3. Does the post coming from this unknown pleb contain one of the requiried tags?
  - Yes; continue:
  - No; ignore it 😫
- 4. Did the steadfast pleb include one or more images?
  - Yes! Parse out the image(s) and display them.
    We will not display textual content, though we may display metadata (author name, posted date, etc.)
  - No. Sorry, you almost made it. Better luck next time.
  - Future implementations may include AI-driven image filters to assure that photos are nature-themed.

feedstr wss://feedstr.nostrl.com



Hacking ANANOSTR with Svelte (Jul 11, 2023) 1 Photo · Updated Jul 10, 2023

# Meetups



feedsti

Demo day: Nostrgardn & Feedstr (Aug 28, 23) 2 Photos · Updated Aug 28, 2023



Nostr coffee hour on a Wednstr (Jun 28, 2023) 2 Photos · Updated Jun 28, 2023



Exploring NDK (Sep 14, 2023)

1 Photo · Updated Sep 13, 2023

# calligraphyjapan.com





Simple site for displaying an artist's calligraphy.

Use Case for Nostr: Zapping, localization

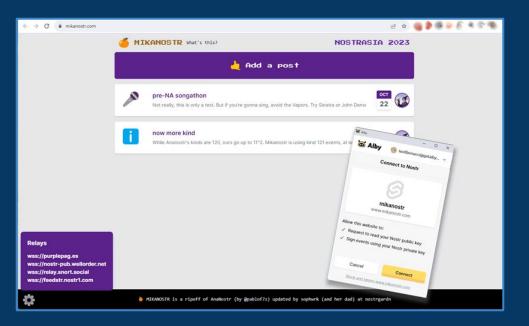
Simplicity: \*\*\*\*



### Video

# 4

### mikanostr.com



A rewrite of Pablof7Z's ananostr.com for NostrAsia - now using NDK.

Use Case for Nostr:
Get advanced, learn by refactoring

Simplicity: \*\*\*\*



# Session Tips

Learn from our experiences

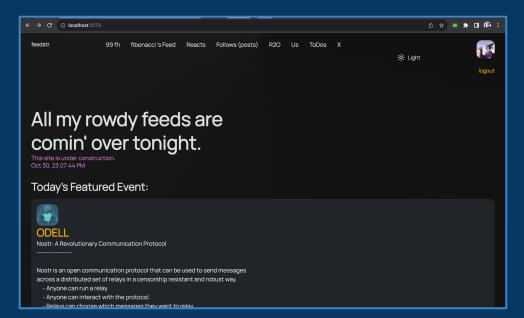
#### DO:

- Pull, whenever your start
- Commit more frequently, or when you're done for the session
- Rotate (or use pomodoros if solo)
   within larger session timebox
   (>90 min)

#### DON'T:

Don't wait 3 weeks between sessions

# feedstr.xyz (unlaunched)





Simple site for trying stuff...

Use Case for Nostr:
Simple relay from https://relay.tools/
21,000 sats (~\$5.49) for 1 year

Simplicity: ?\*

Poll Activity...

# \* NDK Usage

Nostr-Specific Features

```
TS ndk.ts 1, M X
src > lib > stores > TS ndk.ts > ...
       import { browser } from '$app/environment'
       import NDK from '@nostr-dev-kit/ndk'
       import { NDKNip07Signer } from '@nostr-dev-kit/ndk'
       import { writable } from 'svelte/store'
       let nip07signer
       if (browser) {
           nip07signer = new NDKNip07Signer()
       import { defaultRelays } from '$lib/stores/relays'
       //console.log('defaultRelays', defaultRelays);
 13
       const ndk = new NDK({
           explicitRelayUrls: defaultRelays,
           signer: nip07signer,
           debug: false
 17
       })
       if (browser) {
           _ndk.connect().then(() => console.log('NDK Connected'))
       const ndk = writable(_ndk)
 24
       export default ndk
```





```
TS relays.ts
src > lib > stores > TS relays.ts > ...
       //// the CURRENT relays that we are pulling from, reacting on, zapping on, etc.
       export const currentRelays = [
           'wss://relay.damus.io'.
           'wss://nostr-pub.wellorder.net',
           'wss://feedstr.nostr1.com',
           'wss://relay-jp.nostr.wirednet.jp',
           'wss://relay.snort.social'
 11
       export const japaneseRelays = [
           'wss://yabu.me',
           'wss://relay-jp.nostr.wirednet.jp',
           'wss://nostr-relay.nokotaro.com',
           'wss://relay-jp.nostr.moctane.com'
       //// PROFILE relays
       export const profileRelay = ['wss://purplepag.es']
       export const testingRelays = [
           'wss://purplepag.es',
           'wss://feedstr.nostr1.com'
 24
```

```
+page.svelte 1, M X
src > routes > fh99 > 6 +page.svelte > ...
       <script lang="ts">
           import ndk from '$lib/stores/ndk';
           import type { NDKEvent } from '@nostr-dev-kit/ndk';
           import PostCard from '$lib/components/PostCard.svelte';
  6
           let events: NDKEvent[] = [];
           let maxCount = 0;
           function fetchEventsFromSub() {
               const sub = $ndkStore.subscribe({ kinds: [1] }, { closeOnEose: false });
 10
               sub.on('event', (event) => {
                   if (maxCount == 99) return;
 11
                   events.push(event);
 12
 13
                   events = events;
 14
                   maxCount++;
 15
               });
```

```
+page.svelte 1, M X
              sub.on('notice', (notice) => {
16
                  console.log('NOTICE: ', notice);
17
              });
18
19
              sub.on('eose', () => {
20
                  console.log('EOSE');
              });
21
22
         fetchEventsFromSub();
23
24
     </script>
25
26
     {#if events}
27
         <h2>Current Posts</h2>
28
         <div>
              {#each events as post}
29
30
                  {#key post}
                      <PostCard {post} />
31
32
                  {/key}
              {/each}
33
          </div>
34
     {/if}
35
```

```
PostCard.svelte
src > lib > components > @ PostCard.svelte
       <script lang="ts">
           import type { NDKEvent, NDKUser } from '@nostr-dev-kit/ndk';
           import ndk from '$lib/stores/ndk';
           import ndkForProfile from '$lib/stores/ndkForProfiles';
           import { Avatar } from '@nostr-dev-kit/ndk-svelte-components';
           import dayis from 'dayis';
           export let post: NDKEvent;
           let content: string = post.content;
 10
 11
           let pid: string = post.id;
 12
 13
           let author: NDKUser = $ndkForProfile.getUser({ hexpubkey: post.pubkey });
 14
```

15



```
function linkify(text: string) {
17
             var urlPattern = /\b(?:https?|ftp):\/\/[a-z0-9-+&@#\/%?=~ |!:,.;]*[a-z0-9-+&@#\/%=~ |]/gim;
             var pseudoUrlPattern = /(^|[^\/])(www\.[\S]+(\b|$))/gim;
             var emailAddressPattern = /[\w.]+@[a-zA-Z -]+?(?:\.[a-zA-Z]{2,6})+/gim;
             return text
                 .replace(urlPattern, '<a href="$&" target=" blank">$&</a>')
                 .replace(pseudoUrlPattern, '$1<a href="http://$2" target=" blank">$2</a>')
                 .replace(emailAddressPattern, '<a href="mailto:$&" target=" blank">$&</a>');
         function addLineBreaks(text: string) {
             var regex = /\n|\r{1}/gim;
             return text.replace(regex, '<br />');
         function convertLinkToImage(text: string) {
             var imageHidingAsLinkPatternRegex =
                 /<a\s+href="([^"]+\.(png|gif|webp|jpeg|jpg))"\s+target="_blank">([^<]+)<\/a>/g;
             var imageSuffixPatternRegex = /\.(png|gif|webp|jpeg|jpg)$/g;
             var br = '<br />';
             var p = ' ';';
             return text.replace(imageHidingAsLinkPatternRegex, ( , link, alt) => {
                 var alt = link.replace(/^https?:\/\/, '').replace(imageSuffixPatternRegex, '');
                 return `${br}<a href="${link}" target=" blank"><img src="${link}" alt="${alt}"></a>${br}
40
     </script>
```

```
PostCard.svelte
    <div class="eventBlock">
            {#await author.fetchProfile() then eventSet}
                <Avatar ndk={$ndk} npub={author.npub} />
                   {author.profile?.displayName
                       ? author.profile.displayName
                       : author.profile?.name
                       author.profile.name
                       : 'unknown'}
            {/await}
        {dayjs.unix(post.created_at ?? 0).format('MMM D, YYYY h:mm a')}
        {@html convertLinkToImage(addLineBreaks(linkify(content)))}
     </div>
     <style>
        h3 {
            color: var(--brand);
        h6 {
            color: rgb(193, 127, 196);
69
70
```

Let's Nostr!

# \*Community,

Sharing and Learning

## Over the Nostr

- Make friends (not just with other devs)
  - Be nice: compliment their work
  - **Be brave**: share your progress
  - o **Be curious**: ask how you can improve

### Podcasts

### Videos

## Telegram

Let's Nostr!

\*Future\*

Our Plans

# Together

- More Features for Current Sites
  - Localization: 日本語, langue française
  - Guests can react, zap, etc.
  - Other features artists
- Other Projects
- Learning



# Soph



- College applications / AP tests
- Internship

- Job in Freedom Tech (CTO, Delivery coach)
- **Nostrville** next week
- My calling is to host a Hacker space / cafe / podcast studio



### Fibonacci

