Are PWAs ready to take over the world?

Implementing main progressive web app features in practice

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What are PWAs?

“PWA is a set of technologies designed to make faster, more capable web sites. They load fast, are available offline, are secure, can be accessed from your home screen, have push notifications, and more.

-- Luke Wroblewski, notes from Jason Grigsby's talk
PWA demo: Sojourner

https://fosdem.sojourner.rocks

https://github.com/loomchild/sojourner-web
Sojourner Usage

Unique visits Saturday (per 30 min)  Active users (5+ bookmarks)

600  165

Other conferences: FlowCon
Selected PWA aspects

Offline-first
Installation
UX / UI
Offline-first
Caching via Service Worker

Pre-caching static resources (shell, images, fonts)

Using Stale-While-Revalidate strategy to handle schedule

No-caching of real-time information (room full)
There are client-side full-text search libraries, such as Elasticlunr or Fuse.js
Installation

Happens automatically on first visit
Add To Home Screen (A2HS)

Offers almost universal support:

- Chrome (Android, Linux, MacOS, Windows)
- Firefox (Android)
- Safari (iOS)

Update automatically on next visit, can invite the user to do immediately.
UX / UI

Nokia N900 app

PWA

Which design system: Material Design, Human Interface Guidelines?
So are PWAs ready to take over the world?
Thank you!
Resources

1. The Case for Progressive Web Apps by Jason Grigsby - An Event Apart: video
3. The offline cookbook by Jake Archibald: article
4. Client-side full-text search: article, Elasticlunr, Fuse.js
5. PWAs on iOS: article
6. All powerful front-end developer talk by Chris Coyier, JAMStack: video
7. Why “Progressive Web Apps vs. native” is the wrong question to ask by Dan Dascalescu: article
8. Progressive Web Apps simply make sense by Jason Grigsby: article