Nyxt: knowledge extraction engine

https://nyxt.atlas.engineer

hello@atlas.engineer

Nyxt is a browser with deeply integrated AI and semantic document tools that work as a second brain to help users process and understand more, more quickly.

What we're doing:

We're empowering researchers, scientists, students, knowledge workers, and more to extract and use information from the **W**orld **W**ide **W**ilderness.

The problem: the Internet is vast

There is a treasure trove of information online, but it is not easy to
find, understand, or use.

- Browsers show you documents, but do not help you
  understand them.
- Search engines find documents, but millions of them.

Nyxt empowers knowledge work:

- Nyxt understands and classifies documents- to help us make sense of them.
- Nyxt deploys AI tools to process information- multiplying our efforts.
- Nyxt provides a powerful, keyboard driven interface.
- Nyxt is adaptable and customizable for any task.

Practically, in Nyxt we can:

- Quickly summarize documents.
- Break down complex texts into digestible chunks.
- Audit and verify information in one click.
- Click to annotate a snippet.
- Search multiple tabs at once.
- . . .

Why now?

- **AI tools are increasingly necessary to analyze and understand the volume of information online.**

- The Internet has grown to be our largest repository of human knowledge.

- The economy is shifting towards knowledge work.

- Advances in AI technology have made it more accessible, reliable, and affordable.

Why is Nyxt better than a legacy browser?

- Nyxt integrates with powerful AI.
- Nyxt is flexible for readily integrating with emergent technologies.
- For knowledge workers:
  - Nyxt saves time.
  - Nyxt preserves focus.

Differentiation

For future researchers, scientists, students, knowledge workers:

	Nyxt	Legacy Browsers	Search Engines
Customizable	Yes	Kind of	No
AI Integrated	Yes	No	Kind of
Intelligent suggestions	Yes	Kind of	Kind of
Auto Bibliography	Yes	No	No
Auto Summary	Yes	No	No
Audit/Verify Information	Yes	No	Kind of
Keyboard Driven	Yes	Kind of	Kind of
. . .			

Traction

- ~500,000 unique site visitors annually
- ~37,000 installations
- 11,500+ commits to the Nyxt core
- 8,300+ stargazers on GitHub
- 20+ libraries released/patched
- we've released version 3.0.0 pre-release-6.

Technical Advantages

- Our software is written in the programmable programming language: Lisp. Making deep changes to Nyxt is made easier via the usage of macros, CLOS, and other language specific features.

- Due to our flexible design (from first principles), we can quickly adapt to the rapidly changing environment of the Internet.

- Our codebase is only 15.000 SLOC compared to Google Chrome's 35.000.000, making it comprehensible, and light.

Team

- John Mercouris
  - Illinois Institute of Technology: BSc Computer Information Systems.
  - Technische Universität Berlin: Computer Science, Business.
  - Universiteit Twente Enschede: Business.
  - Released several apps with millions of downloads on the iOS App store.
  - Speaks five languages.
- Pierre Neidhardt
  - Institut National des Sciences Appliquées de Lyon: MSc Computer Science.
  - Major contributor to open source projects (Lisp, Emacs, Guix).
  - Baguette baker extraordinaire!

Team (continued)

- André Gomes
  - Faculdade de Ciências da Universidade do Porto: BSc Theoretical Physics, BSc Pure Mathematics.
  - Visited 32 countries.
- Artyom Bologov
  - School of Advanced Studies (Tyumen State University): BA in Computer Science and Systems Analysis.
  - Polyglot programmer from bare-metal to increasingly abstract and practical.
  - Friend of cats.
- Thomas Lansing
  - Carnegie Mellon: MIIPS Product Innovation.
  - Four time burning man alumnus.
  - Fifteen seasons as a commercial Alaskan fisherman.

How do we make money?

1. Sell add-ons and services for Nyxt. (example: AI compute time, a VPN, data backup/synchronization...)

2. Like Firefox, we could sell advertisement space to search engines. We could integrate advertisement results in our search engine results by either:
   - Partnering with an existing search engine.
   - Injecting our own advertisements at the top of search results.

3. Dual license Nyxt with a commercial license.

How do people find us?

- GitHub
- Our website articles
  (https://nyxt.atlas.engineer/articles)
- Recommendations from tech influencers (conferences, YouTube, blogs, etc)
- Social media channels (Hacker News, Reddit, etc)

We've hit the front page of Hacker News a few times. Often with posts created by others.

How do people find us? (continued)

Hacker News

```
https://news.ycombinator.com/item?id=27219646
https://news.ycombinator.com/item?id=32097424
https://news.ycombinator.com/item?id=30184792
https://news.ycombinator.com/item?id=20064589
https://news.ycombinator.com/item?id=15418719
https://news.ycombinator.com/item?id=26509612
```

How do people find us? (continued)

Reddit

```
https://www.reddit.com/r/unixporn/comments/11st101/
swaywmnyxt_friendship_ended_with_backlights/
https://www.reddit.com/r/emacs/comments/numzw0/nyxt_
is_the_most_customizable_web_browser_ever/
https://www.reddit.com/r/emacs/comments/nrn39q/
browsing_in_common_lisp_nyxt_and_emacs/
```

How do people find us? (continued)

Tech influencers

```
https://emacsconf.org/2021/talks/nyxt/
https://www.youtube.com/watch?v=SVteSEjKytw
https://www.youtube.com/watch?v=1TydtiWwZgQ
...
```

n y
x t

Questions?

https://nyxt.atlas.engineer/
hello@atlas.engineer

Backup: How much could we make?

With a:

- conservative close rate (10%) in a standard SaaS model
- annual customer value (ACV) $120.00 ($10/month AI subscription)
- 1.2% market share of the browser space (based on 6.825 billion users)
- 83,333,333 users

We can get to a billion dollars. We strongly believe that we can provide more value to our users, and actually achieve a greater ACV than $120.00.

Backup: According to AI:

Navigating the vast expanse of the internet without AI is like being lost in a never-ending labyrinth without a map, compass, or any sense of direction. It's as if you're wandering through a dense jungle, wading through waist-high weeds and dodging obstacles at every turn, hoping to stumble upon something useful. With AI as your guide, however, you have a skilled navigator who can help you navigate the terrain, point out the most promising paths, and quickly get you to your destination.