A Better Javascript Language Extension

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New phone, who dis?

* Just this guy, you know?

* A proud cat dad

* A member of the Hydra engineering team (https://hydra.so/)

* Maintainer of PLV8, author of PLJS

What is a language extension?

Abridged history of PLV8

- 2010 - early, very simple

- 2012 - PLV8 1.1, v8 3.1.4

- Late 2012 - PLV8 1.3, Coffeescript and Livescript support

- 2016 - PLV8 1.5, last branch of v1

- 2017 - PLV8 2.0

Apocalypse - community builds went away

Two paths forward

* Replace v8

* Replace all of the Google Build System

Abandon V8?

- Lots of community engagement

- Some good

- Some bad

Enter 3.0

* Attempt to move forward

* Some fantastic community contributions

* Huge amount of bug fixes

* Much newer version of v8

  * Fixes some other platform issues, like ARM

  * Still had issues with older Linux distributions

Enter 3.1

* New explicit build system, overwriting a bunch of Google's build system

* Docker support (!!!!)

* Finally some ability to build on more systems that Google didn't support directly

3.2 - A New Hope

- Yet another new build system: https://github.com/bnoordhuis/v8-cmake

- Eliminate all of the remaining Google build system in favor of something like node.js uses

Enter PLJS

* Based on QuickJS

  * Super easy to build

  * Very lightweight

  * Full featured ("modern" Javascript)

  * Decently fast

But isn't v8 like super fast?

What does QuickJS do well?

* Very fast startup

* Decently fast crossing the membrane

* ES2020 support

* Maintainable (compiles, like against actual environments)

PLJS Future

- Full PLV8 feature parity

- Hooks

- Built-in modules

- PLJSu

How can you help?

* Real-world benchmarks

* Run in development, help find any holes or issues

* Suggest new features and roadmaps

* PRs are always welcome

PLV8 Future

- Continued Support

- Best effort upgrades of the Javascript versions

- As much OS/Environment support as possible

Alas, we're at the end

* https://github.com/plv8/plv8

* https://github.com/plv8/pljs