

The current state

- A versatile and strong scripting language.
- A large user base producing many user scripts.
- But...
- A fragmented coding community.
- Where code sharing is limited to cannibalism.

Why?

- There is no incentive to writing re-usable code.
- There is nowhere to look for code to build on.

Current solutions

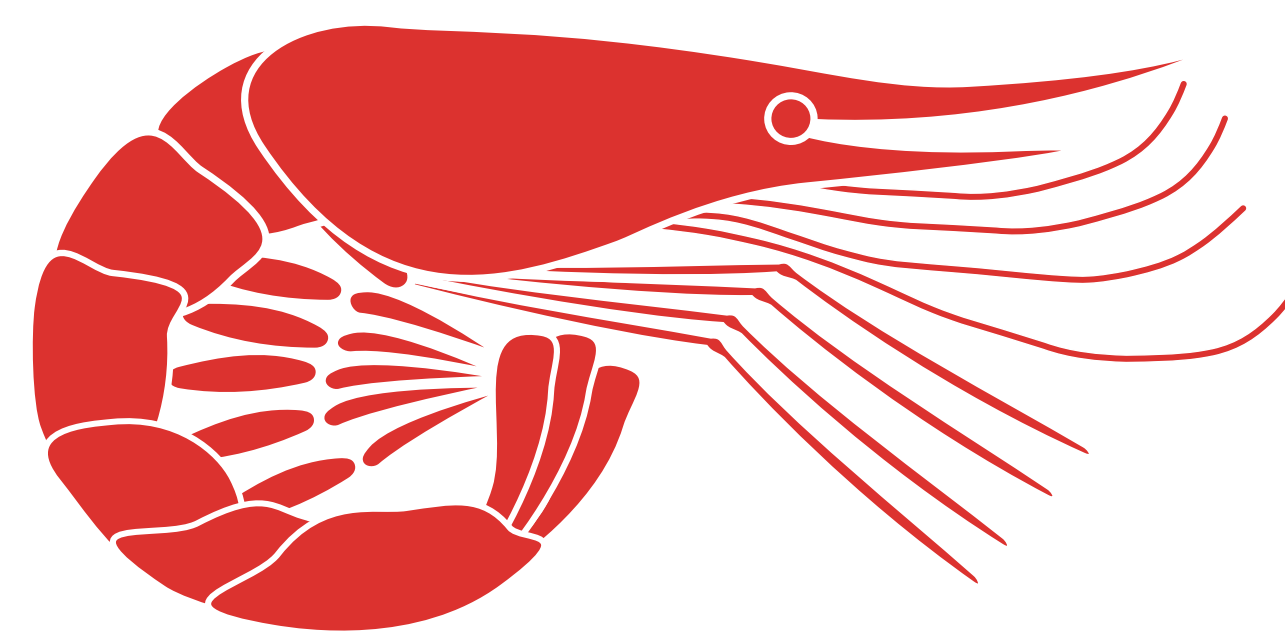
Mostly self-maintained repositories:

- Unsustainable
- Wildly different standards
- No guarantee of interoperability

A new solution: CPrAN

Five problems to solve:

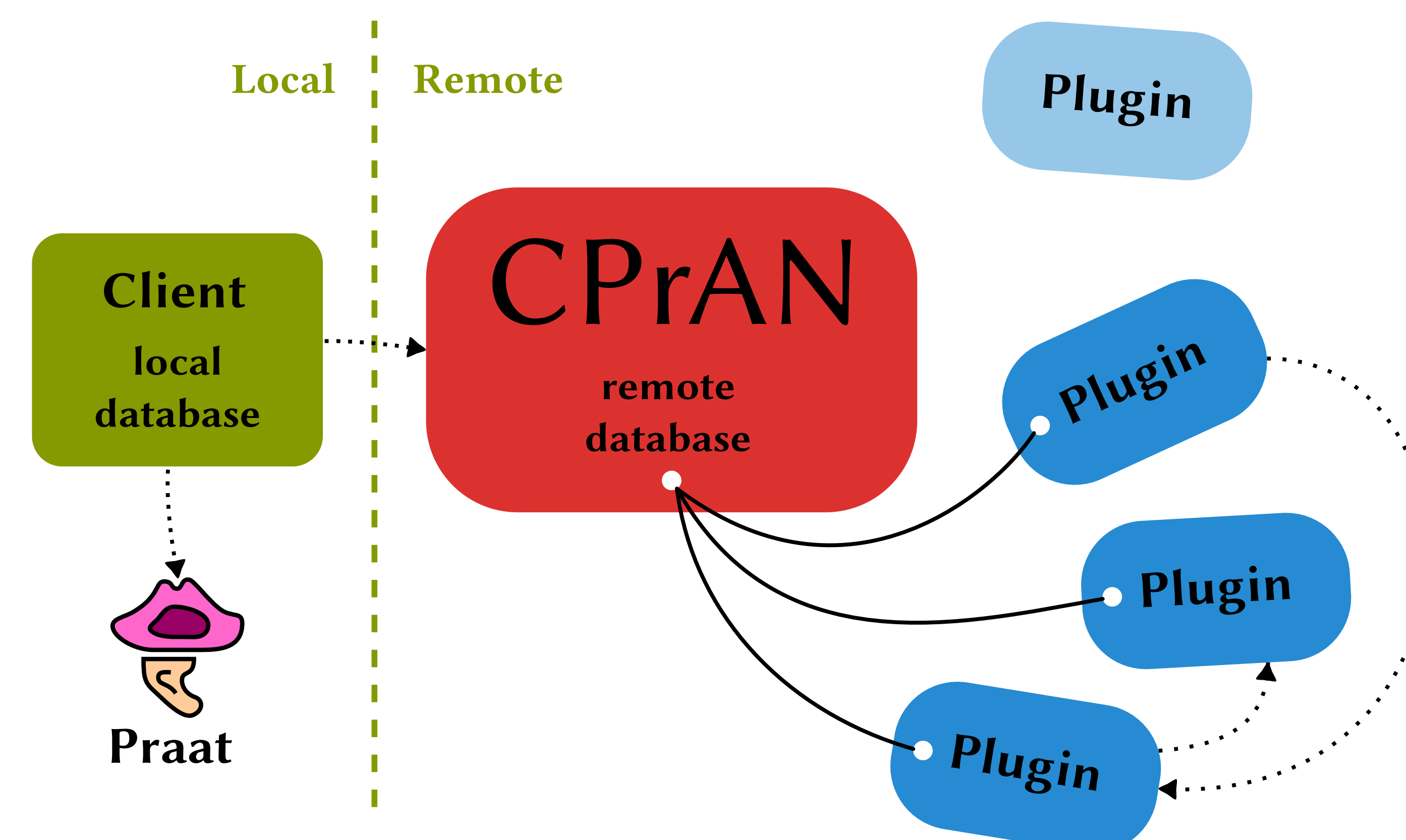
- Common standard
- Code packaging
- Code testing
- Package distribution
- Dependency resolution



CPrAN (Comprehensive Praat Archive Network) aims to solve these problems with an architecture for distribution based on existing and backwards-compatible solutions.

The working prototype is usable *today*.

Design



Registration

Any plugin (new or existing) can be registered.
Once registered (via descriptor):

- CPrAN tracks development.
- and provides distribution.

Registered plugins go into a central database

Distribution

Interaction with remote database via clients.
Use of open APIs allows for multiple clients.
Interface composed of 7 basic commands.

- **update**: sync databases
- **search**: find matching plugins
- **show**: show description of plugins
- **install**: copy plugin and dependencies to disk
- **test**: ensure plugins works as expected
- **remove**: delete local copy of plugin
- **upgrade**: bring plugins to most recent version

Implementation

- Common standard
Get involved!
- Code packaging
Praat's plugin mechanism
- Code testing
Test Anything Protocol
- Package distribution
git on a GitLab server
- Dependency resolution
Via the Perl client



Can be used as an in-house distribution system

Existing plugins

- **utils**: basic utilities (split, Save selected...)
- **tgutils**: TextGrid utilities (Explode TextGrids...)
- **strutils**: Strings utilities (Create empty Strings...)
- **sndutils**: Sound utilities (RMS normalisation)
- **serialise**: Praat ↔ JSON / YAML
- **selection**: manage Praat selections
- **twopass**: Hirst and DeLooze's pitch algorithm
- **vieweach**: general purpose iterators
- **testsimple**: implements TAP for Praat
- **warnings**: general purpose warning system

Try it yourself:

<https://gitlab.com/cpran/plugin> [cpran/wikis/home](https://gitlab.com/cpran/wikis/home)
<https://gitlab.com/cpran>