

# Puppet-REPL

A REPL for the puppet language

# ABOUT ME



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- Devops Toolsmith
- Puppet Consultant
- Ruby Developer
- Foreman Contributor
- Rubyipmi
- Retrospec-puppet
- Puppet-repl
- Bmclib, lots of misc contributions
- Puppet user since 2009 (7 years)!

# What is a REPL?

R - Run

E - Evaluate

P - Print

L - Loop

# Existing Examples

```
2.3.1 :001 > puts 'hello'
```

```
hello
```

```
=> nil
```

```
2.3.1 :002 >
```

```
Python 2.7.10 (default, Oct 23 2015, 19:19:21)
```

```
[GCC 4.2.1 Compatible Apple LLVM 7.0.0
```

```
(clang-700.0.59.5)] on darwin
```

```
Type "help", "copyright", "credits" or "license"
```

```
>>> print 'hello'
```

```
hello
```

```
>>>
```

# Why you need a REPL

- How the catalog works
- Figure out how the puppet lang works
  - iterators, functions, hashes (try before you commit)
- Share code easily with the play function
- Test your hiera data
- Test your site.pp
- live debugger

# How To Get

Package: `gem install puppet-repl`

Source: <https://github.com/nwops/puppet-repl>

Web Version: <https://www.puppet-repl.com>

# Setup

- There is currently no repl specific settings
- All settings used by the repl are defined in the puppet.conf.
- `gem install puppet-repl`
- `prepl` (short for puppet repl)

# How the REPL works

1. Takes input
2. parsers, evaluates and compiles code
3. Produces catalog
4. Shows catalog structure in human readable format.



# Settings Used

- basemodulepath, environmentpath
- log level
- hiera\_config
- environment
- server

# Demo Walkthrough

## References

- <http://www.masterzen.fr/2011/12/27/puppet-internals-the-parser/>

# Roadmap

- Bug fixes
- Paid for on premise web version?
  - authentication
  - live remote debugging sessions
- Remote JSON API execution

# Questions