Painless Puppet Providers

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What Providers Provide

Or how Puppet knows how to manage your system

- Shape of a resource
- Read current state
- Enforce desired state
Shape of a Resource - Puppet 3

```ruby
Puppet::Type.newtype(:apt_key) do
  newproperty(:size) do
    desc <<-EOS
      The key size, usually a multiple of 1024.
    EOS
    This property is read-only.
  end
end
```
New Shape of a Resource

```
require 'puppet/resource_api'

Puppet::ResourceApi.register_type(
  name: 'apt_key2',
  docs: '<<-EOS,
features: ['canonicalize'],
attributes: {
  ensure: {
    type: 'Enum[present, absent]',
    desc: 'Whether this apt key should be present or absent',
  },
  size: {
    type: 'Integer',
    desc: 'The key size, used for key generation',
    behaviour: :read_only,
  },
},
EOF',
)
```
Show me the Code

Demo Time
Current State

- 1.0 release on the horizon
- usable today
- looking for feedback
Reading Material

- [https://github.com/puppetlabs/puppet-resource_api](https://github.com/puppetlabs/puppet-resource_api)
- [https://github.com/puppetlabs/puppet-specifications/pull/93](https://github.com/puppetlabs/puppet-specifications/pull/93)
Q&A