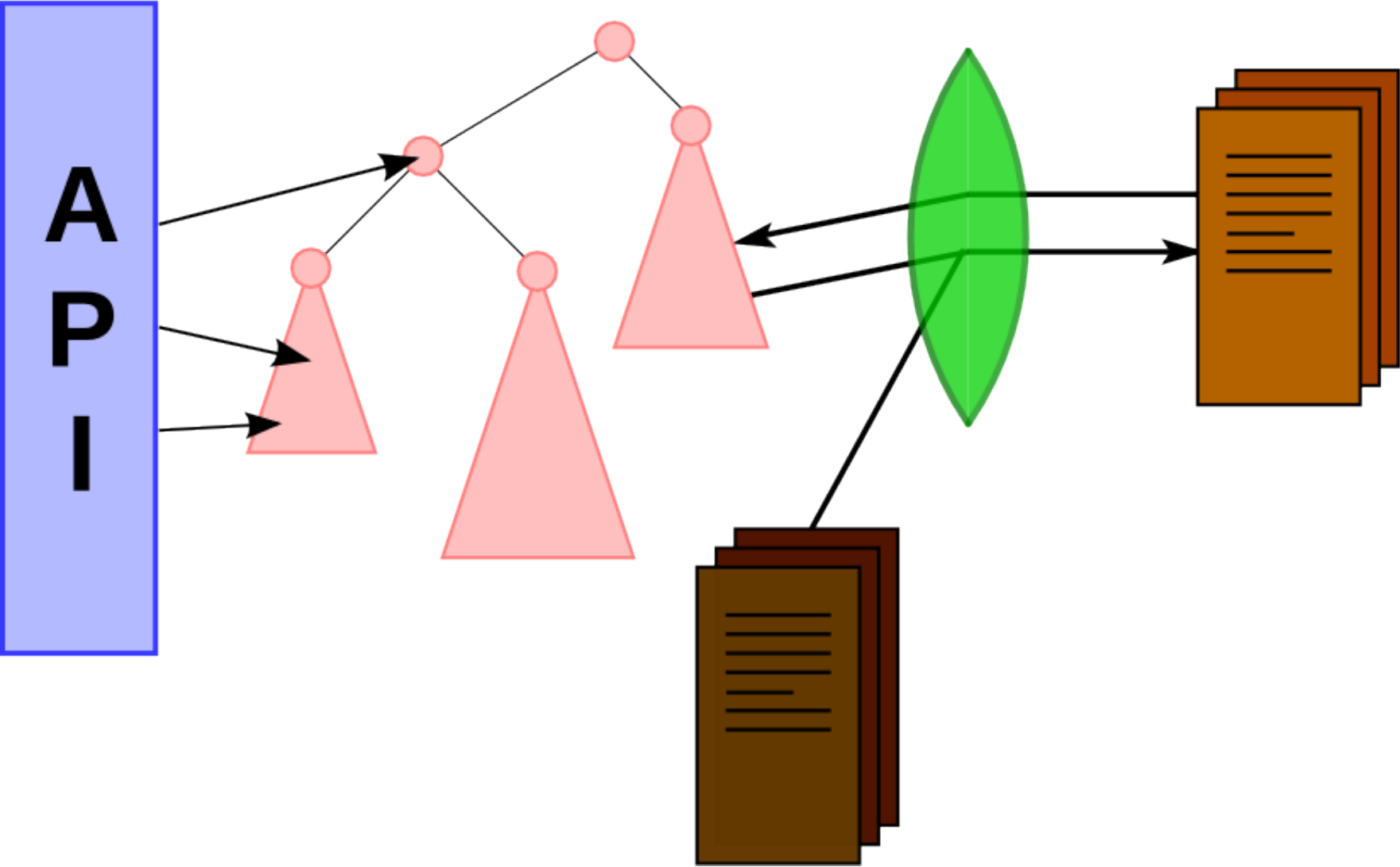




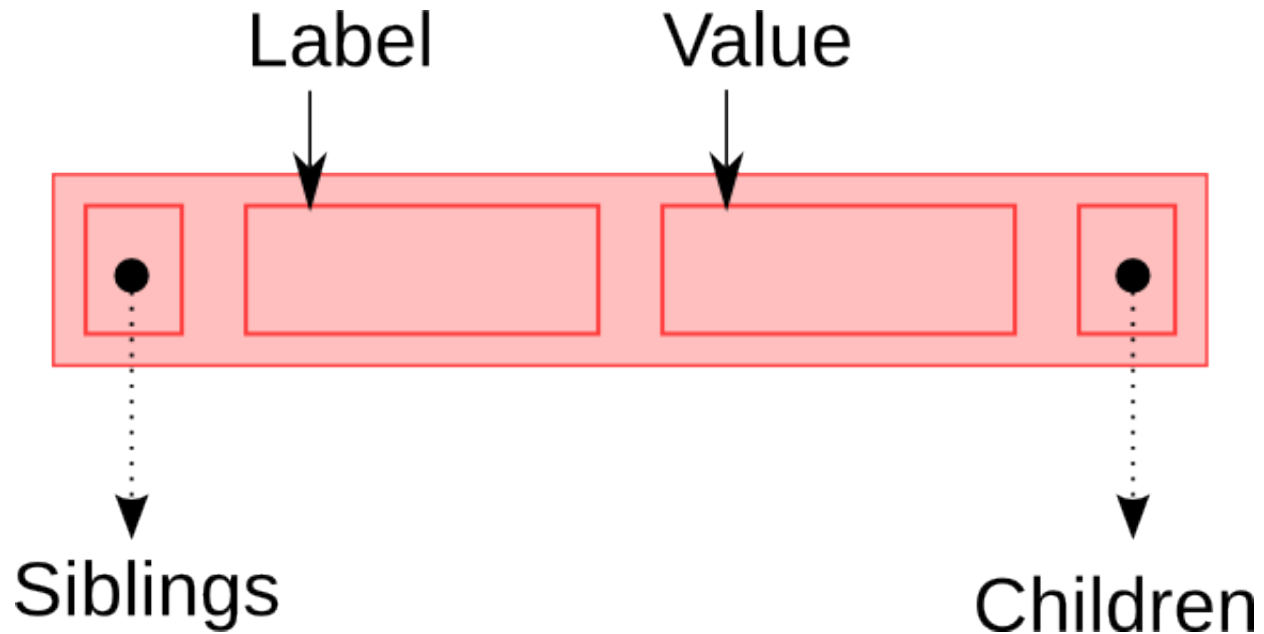
Augeas - a configuration API

David Lutterkort
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Overall architecture



The Augeas Tree



Example: `/etc/hosts`

Format:

```
# ipaddr □ canonical (□ alias)* \n
```

```
127.0.0.1 □ localhost □ localhost.localdomain □ host.domain
```



Example: hosts.aug

```
module Hosts =
  autoload xfm
  let ws = del /[ \t]+/ " "
  let eol = del "\n" "\n"
  let comment = del /(#.*|[ \t]*)\n/ "\n"

  let record =
    let word = /^[^# \n\t]+/ in
    [ seq "host" . [ label "ipaddr" . store word ] .
      ws . [ label "canonical" . store word ] .
      [ label "alias" . ws . store word ]* .
      eol ]

  let lns = ( comment | record ) *

  let xfm = transform lns (incl "/etc/hosts")
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Supported file formats

/etc/hosts /etc/inittab yum config /etc/fstab /etc/exports

/etc/aliases /etc/ssh/sshd_config ntp

shell vars in /etc/sysconfig/ logrotate

ifcfg-*

apt preferences/sources dput pam.d

grub.conf xinetd.d vsftpd.conf

[your contribution here](#)



Interesting problems

- Context-free file formats
 - `httpd.conf`
 - (some) XML formats
- Permutation of lenses
- Deeper tree matches
- Tree queries (Xpath)
- Can you prove any of this ?



More information

- Project website <http://augeas.net/>
 - Read the “Quick Tour” first
- Mailing list augeas-devel@redhat.com
- IRC [#augeas](#) on freenode

