

# The Arusha Project

*A framework for Unix system administration*

Holgate and Partain •



Wilson Kinyonga •  
• NBO

```
<package name="perl--5.6.1">
```

```
<descr>
```

```
Our current blessed version of Perl.
```

```
</descr>
```

```
<install><doc>
```

```
Get the source and build the GNU way.
```

```
</doc></install>
```

```
</package>
```



Joseph Shabalala

LAY

```
<package name="perl--5.6.1">
```

```
<install><code>
```

```
cd /system/ark-builds/perl--5.6.1
```

```
./configure && make all install
```

```
</code></install>
```

```
</package>
```

```
# run with:

% ark package install perl--5.6.1

# .....
# or in Python:

perl = ArkPkgsMgr.lookup('perl--5.6.1')

perl.install()
```



Franco Makiadi

FIH

```
<host name="sun3a" >
<ip-addresses><table>
  <entry name="hme0" >
    130.209.242.55
  </entry>
  <entry name="hme1" >
    130.209.242.56
  </entry>
</table></ip-addresses>
</host>
```



Sipho Mchunu

DUR

```
<host name="baobab">
<blinken-lights>Yes!</blinken-lights>

<list-net-interfaces>
  <code lang="python"><![CDATA[
ips  = thing.ip_addresses()

if thing.blinken_lights() != 'Yes!':
    raise 'No lights, no joy'

for if in ips.keys():
    print '%s: %s' % (if, ips[if])
]]></code></list-net-interfaces>
</host>
```

```
# run with:

% ark host list-net-interfaces baobab

# .....

# or in Python:

h = ArkHostsMgr.lookup( 'baobab' )

h.list_net_interfaces()
```



```
<support-contract name="hp" >
<expires>2002.03.31</expires>
<terms>next day</terms>
<email>none</email>
<phone><list>
  <item> +1 800 555 4321</item>
  <item>+44 800 600 700</item>
</list></phone>

</support-contract>
```



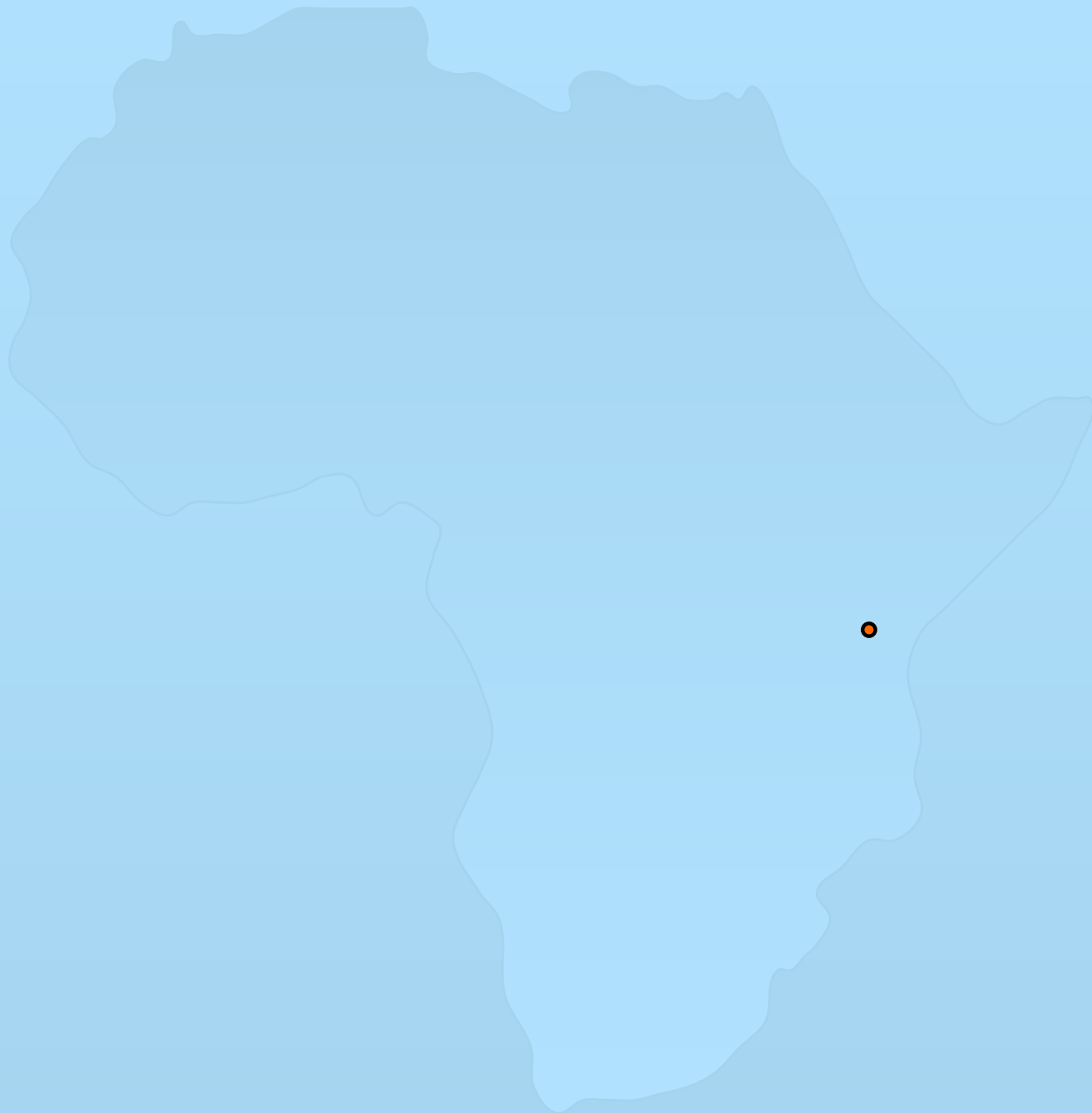
A light blue map of the African continent is centered on a light blue background. Two small black dots are placed on the map: one on the western coast and one on the eastern coast. The text 'Papa Wemba' is written in blue to the left of the western dot, and 'BZV' is written in orange to the right of the western dot.

Papa Wemba

BZV

```
<website name="ok-jazz">
<customer>1493</customer>

<list-unpaid-bills>
  <code lang="perl"><![CDATA[
my $OK = 1;
cd /system/website/1493/billing
while (<*.txt>) {
  print if /ARREARS/;
}
]]></code></list-unpaid-bills>
</website>
```



```
<package name="gnu"    prototype="yes" >
<descr>
Common methods for a GNU-style package.
</descr>

<install>
  <param name="build_dir" default="no" />
  <code>
cd $build_dir
./configure && make all install
  </code>
</install>

</package>
```



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```
<package name="perl--5.6.1">
  <prototypes>
    <prototype team="ARK" name="gnu" />
  </prototypes>
  <descr>
    Our current blessed version of Perl.
  </descr>
  <install>
    <param name="build_dir">
      /export/builds/perl
    </param>
  </install>
</package>
```



Joseph Shabalala

LAY

```
<package name="perl--5.6.1">
<prototypes>
  <prototype team="ARK" name="gnu" />
</prototypes>

<install>
  <param name="build_dir">
    /system/ark-builds/perl--5.6.1
  </param>
</install>

</package>
```

# run with either of:

% ark package install perl--5.6.1 # old

% ark package install ARK:gnu

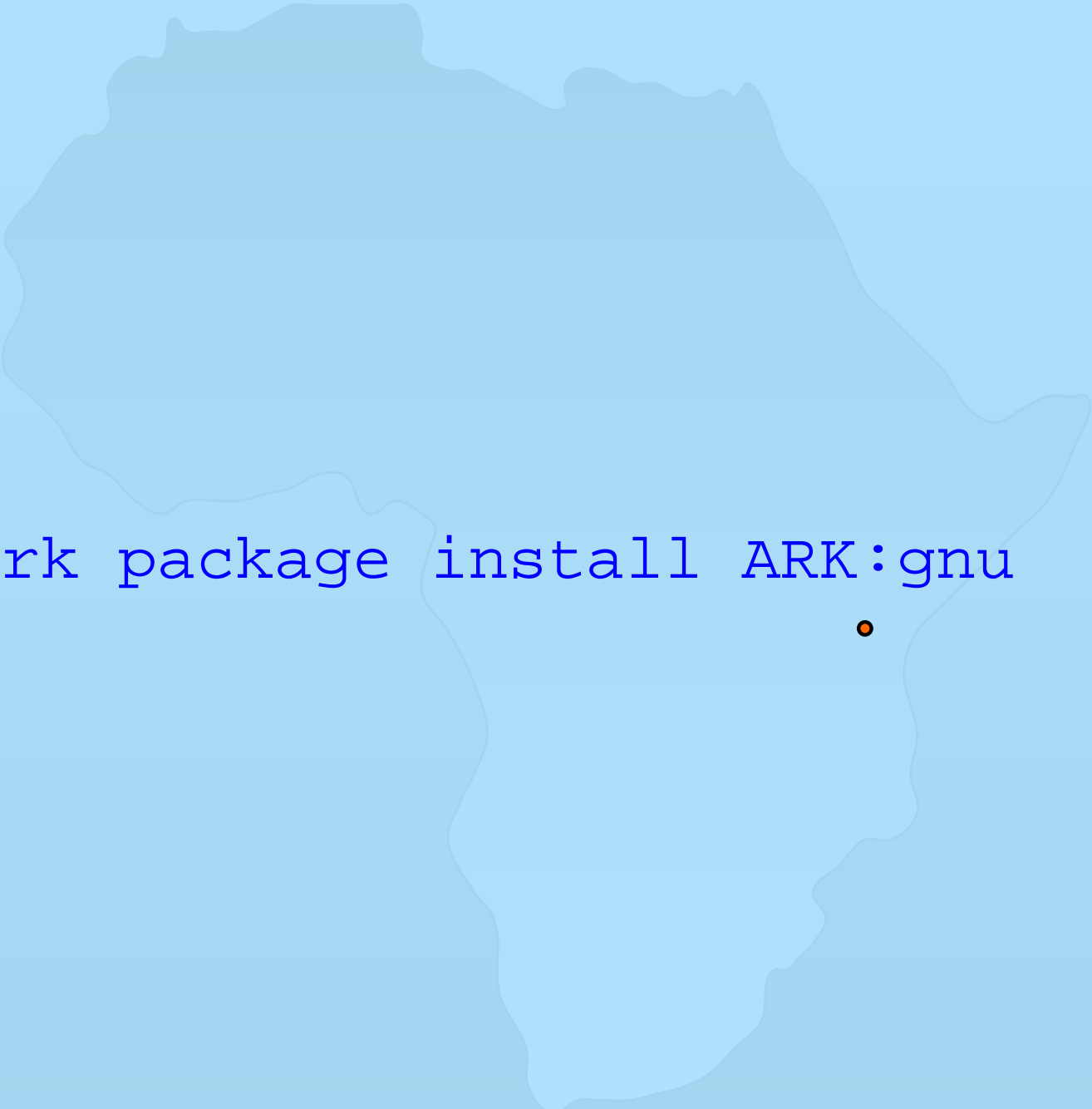
```
<package name="gnu" prototype="yes" >
<install>
  <param name="sysdir" >
    @team:ark-dirs:BUILD-DIR@
  </param><param name="pkg_id" >
    !pkg_id
  </param><param name="build_dir" >
    @param:sysdir@/@param:pkg_id@
  </param><code>
  cd $build_dir
  ./configure && make all install
</code></install>
</package>
```

```
<package name="perl--5.6.1">
<prototypes>
<prototype team="ARK" name="gnu" />
</prototypes>
<descr>
Our current blessed version of Perl.
</descr>
<!-- no install params needed! -->
</package>
```

```
<package name="perl--5.6.1">  
<prototypes>  
  <prototype team="ARK" name="gnu" />  
</prototypes>  
  
<!-- no install params needed! -->  
  
</package>
```

```
<package name="gnu" prototype="yes" >
<configure>
  <code>
    cd $build_dir && ./configure
  </code></configure>

<install>
<constraint><dependency type=
"essential" on-method="configure"
/></constraint>
  <code>
    cd $build_dir && make all install
  </code></install>
</package>
```



```
% ark package install ARK:gnu
```

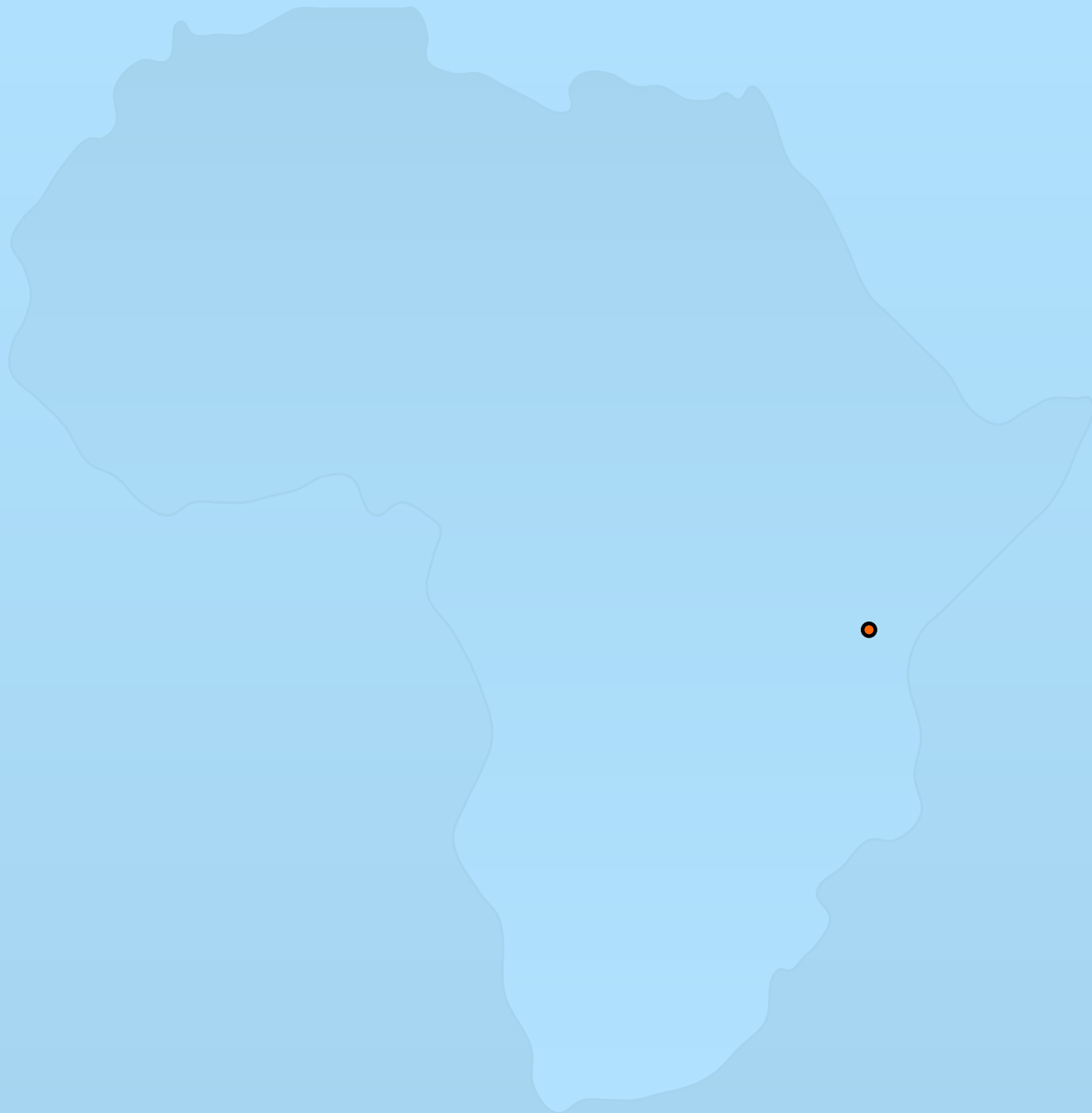


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• NBO

```
<package name="beeste" prototype="yes" >
<install>
  <constraint>
    <host-spec>ARK:ia32-linux</host-spec>
  </constraint>
  <param name="rpm_dir">/system/ia32-rpms<
  <param name="pkg_id">!pkg_id</param>
  <code>
cd $rpm_dir
rpm -Uvh $pkg_id.i386.rpm
</code></install>
</package>
```

```
<package name="perl--5.6.1">
<prototypes>
  <prototype team="." name="beeste" />
  <prototype team="ARK" name="gnu" />
</prototypes>

<descr>
Our current blessed version of Perl.
</descr>
</package>
```





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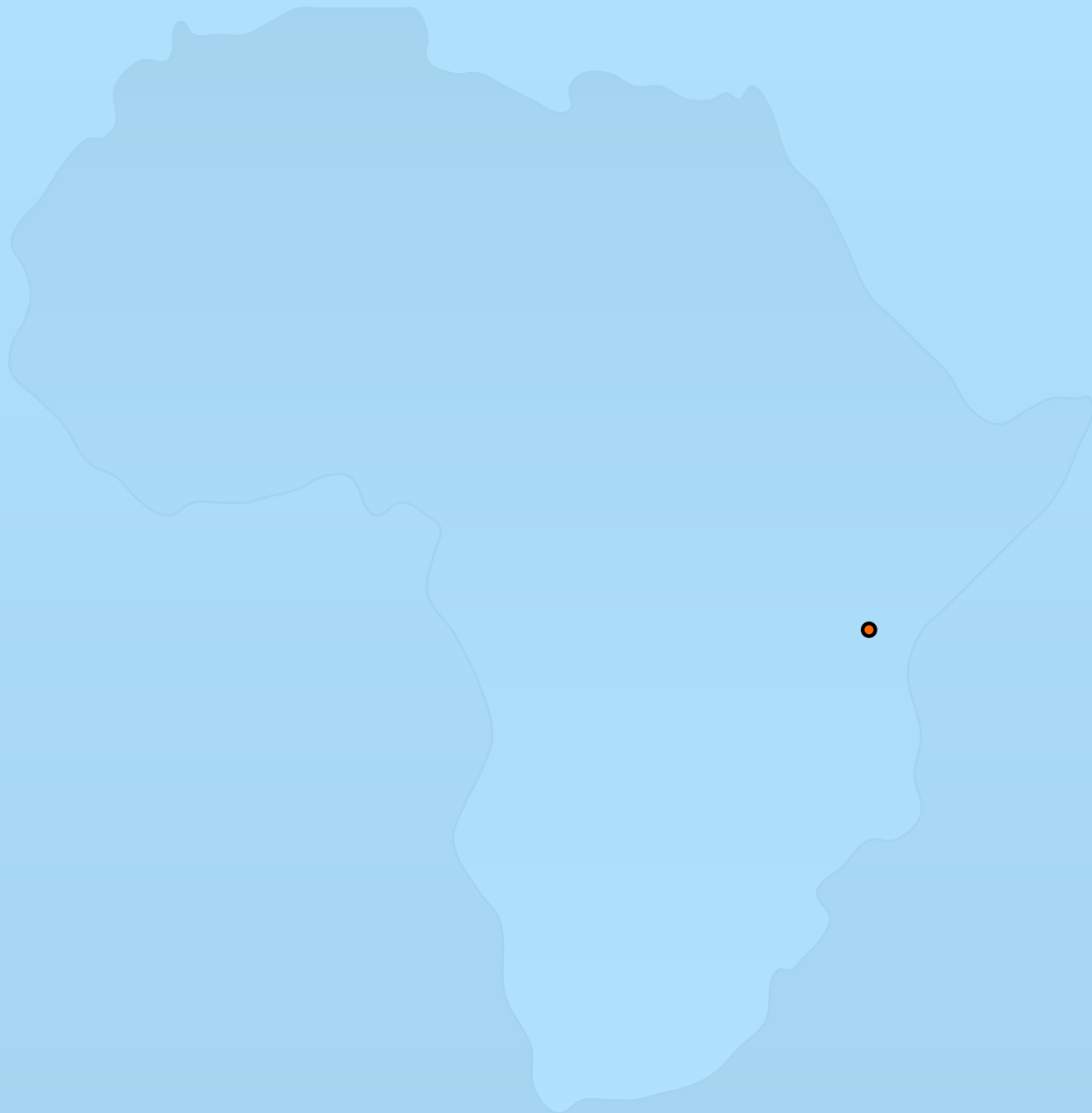
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cd /system/ark-builds/perl--5.6.1
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./configure && make all install
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</code></install>
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</package>
```

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<package name="perl--5.6.1">  
<prototypes>  
  <prototype team="ARK" name="gnu" />  
</prototypes>  
</package>
```




```
<host name="baobab">
<blinken-lights>Yes!</blinken-lights>


<list-net-interfaces>
  <code lang="python"><![CDATA[
ips  = thing.ip_addresses()

if thing.blinken_lights() != 'Yes!':
    raise 'No lights, no joy'

for if in ips.keys():
    print '%s: %s' % (if, ips[if])
]]></code></list-net-interfaces>
</host>
```



`<list-net-interfaces>`



contacts, disk chunks, hosts, licenses, mailing lists, packages, purchase orders, support calls, support contracts, teams, users, vendors

Amanda backups, Apache, automount maps, centralized syslogging, ClearCase, /etc/exports, /etc/motd, host trust configuration, inetd configuration, LPRng, major EDA tools, major freeware tools, misc. utility scripts, multi-platform package manager, multiple versions simultaneously, network configuration, NISless password distribution, Samba, sendmail configuration, Sun patch handling, system cron configuration, tcp-wrappers config, time sync'ing, Webware server view of ARK, XEmacs configuration, ...

# The Arusha Project

*A framework for Unix system administration*

<http://ark.sf.net/> •