

NAME

X11::Auth – Perl module to read X11 authority files

SYNOPSIS

```
require X11::Auth;
$a = new X11::Auth;
($auth_type, $auth_data) = $a->get_by_host($host, $disp_num);
```

DESCRIPTION

This module is an approximate perl replacement for the libXau C library and the *xauth*(1) program. It reads and interprets the files (usually `~/.Xauthority`) that hold authorization data used in connecting to X servers. Since it was written mainly for the use of X11::Protocol, its functionality is currently restricted to reading, not writing, of these files.

METHODS**new**

```
$auth = X11::Auth->new;
$auth = X11::Auth->open($filename);
```

Open an authority file, and create an object to handle it. The filename will be taken from the XAUTHORITY environment variable, if present, or `~/.Xauthority` in the user's home directory, or it may be overridden by an argument. `'open'` may be used as a synonym.

get_one

```
($family, $host_addr, $display_num, $auth_name, $auth_data)
= $auth->get_one;
```

Read one entry from the file. Returns a null list at end of file. `$family` is usually `'Internet'` or `'Local'`, and `$display_num` can be any string.

get_all

```
@auth_data = $auth->get_all;
```

Read all of the entries in the file. Each member of the array returned is an array ref similar to the list returned by *get_one*().

get_by_host

```
($auth_name, $auth_data)
= $auth->get_by_host($host, $family, $display_num);
```

Get authentication data for a connection of type `$family` to display `$display_num` on `$host`. If `$family` is `'Internet'`, the host will be translated into an appropriate address by *gethostbyname*(). If no data is found, returns an empty list.

COMPATIBILITY

The following table shows the (rough) correspondence between libXau calls and X11::Auth methods:

libXau	X11::Auth
-----	-----
XauFileName	<code>\$ENV{XAUTHORITY}</code> <code> "\$ENV{HOME}/.Xauthority"</code>
<code>fopen(XauFileName(), "rb")</code>	<code>\$auth = new X11::Auth</code>
XauReadAuth	<code>\$auth->get_one</code>
XauWriteAuth	
XauGetAuthByAddr	<code>\$auth->get_by_host</code>
XauGetBestAuthByAddr	
XauLockAuth	
XauUnlockAuth	
XauDisposeAuth	

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SEE ALSO

perl (1), *X11::Protocol*, *Xau* (3), *xauth* (1), lib/Xau/README in the X11 source distribution.