



Linux Ubuntu 22.4.5 Manual Pages on command 'IO::Async::Future.3pm'

\$ man IO::Async::Future.3pm

IO::Async::Future(3pm) User Contributed Perl Documentation IO::Async::Future(3pm)

NAME

"IO::Async::Future" - use Future with IO::Async

SYNOPSIS

```
use IO::Async::Loop;
```

```
my $loop = IO::Async::Loop->new;
```

```
my $future = $loop->new_future;
```

```
$loop->watch_time( after => 3, code => sub { $future->done( "Done" ) } );
```

```
print $future->get, "\n";
```

DESCRIPTION

This subclass of Future stores a reference to the IO::Async::Loop instance that created it, allowing the "await" method to block until the Future is ready. These objects should not be constructed directly; instead the "new_future" method on the containing Loop should be used.

For a full description on how to use Futures, see the Future documentation.

CONSTRUCTORS

New "IO::Async::Future" objects should be constructed by using the following methods on the "Loop". For more detail see the IO::Async::Loop documentation.

```
$future = $loop->new_future
```

Returns a new pending Future.

```
$future = $loop->delay_future( %args )
```

Returns a new Future that will become done at a given time.

```
$future = $loop->timeout_future( %args )
```

Returns a new Future that will become failed at a given time.

METHODS

loop

```
$loop = $future->loop
```

Returns the underlying IO::Async::Loop object.

done_later

```
$future->done_later( @result )
```

A shortcut to calling the "done" method in a "later" idle watch on the underlying Loop object. Ensures that a returned Future object is not ready immediately, but will wait for the next IO round.

Like "done", returns \$future itself to allow easy chaining.

fail_later

```
$future->fail_later( $exception, @details )
```

A shortcut to calling the "fail" method in a "later" idle watch on the underlying Loop object. Ensures that a returned Future object is not ready immediately, but will wait for the next IO round.

Like "fail", returns \$future itself to allow easy chaining.

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