



## ***Linux Ubuntu 22.4.5 Manual Pages on command 'Future::Exception.3pm'***

***\$ man Future::Exception.3pm***

Future::Exception(3pm) User Contributed Perl Documentation Future::Exception(3pm)

### NAME

"Future::Exception" - an exception type for failed Futures

### SYNOPSIS

```
use Scalar::Util qw( blessed );
use Syntax::Keyword::Try;

try {
    my $f = ...;
    my @result = $f->get;
    ...
}
catch {
    if( blessed($@) and $@->isa( "Future::Exception" ) {
        print STDERR "The ", $@->category, " failed: ", $@->message, "\n";
    }
}
```

### DESCRIPTION

The "get" method on a failed Future instance will throw an exception to indicate

that the future failed. A failed future can contain a failure category name and other details as well as the failure message, so in this case the exception will be an instance of "Future::Exception" to make these values accessible.

Users should not depend on exact class name matches, but instead rely on inheritance, as a later version of this implementation might dynamically create subclasses whose names are derived from the Future failure category string, to assist with type matching. Note the use of "->isa" in the SYNOPSIS example.

## CONSTRUCTOR

from\_future

```
$e = Future::Exception->from_future( $f )
```

Constructs a new "Future::Exception" wrapping the given failed future.

## ACCESSORS

```
$message = $e->message
```

```
$category = $e->category
```

```
@details = $e->details
```

Additionally, the object will stringify to return the message value, for the common use-case of printing, regexp testing, or other behaviours.

## METHODS

throw

```
Future::Exception->throw( $message, $category, @details )
```

Since version 0.41.

Constructs a new exception object and throws it using "die()". This method will not return, as it raises the exception directly.

If \$message does not end in a linefeed then the calling file and line number are

appended to it, in the same way "die()" does.

as\_future

```
$f = $e->as_future
```

Returns a new "Future" object in a failed state matching the exception.

AUTHOR

Paul Evans <leonerdd@leonerdd.org.uk>

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