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($0) and $0->isa( "Future::Exception" ) {
        print STDERR "The ", $0->category, " failed: ", $0->message, "\n";
    }
}
```

Future::Exception(3pm)

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 inheritence, 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 smessage 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

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