

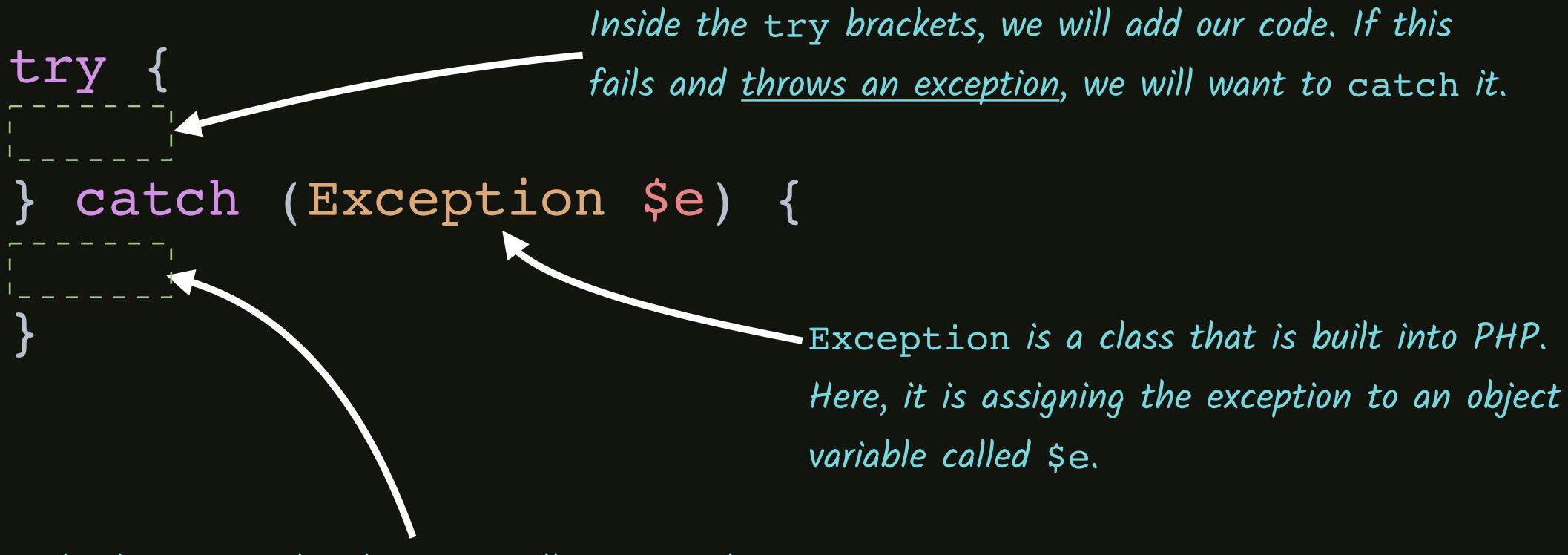


Returning Messages With If/Else

```
<?php
use Respect\Validation\Validator;
function validate date($date string)
   $date validator = Validator::date('d-m-Y')->notEmpty();
   if ($date validator->validate($date string)) {
       $date time = strtotime($date string);
       return date('F jS Y', $date time);
   } else {
       return 'The date must be in a DD-MM-YYYY format.';
               Objects have exceptions, which can also return messages!
```

Try to Validate, Catch the Exception

In PHP we have a try/catch statement, which will allow us to work with object errors.



Inside the catch brackets, we will want to do something useful with the new \$e object, which will be of the Exception type

Using Respect's Exception Classes

```
<?php
use Respect\Validation\Validator;
use Respect\Validation\Exceptions\NestedValidationException;
function validate date($date string)
   $date validator = Validator::date('d-m-Y')->notEmpty();
   if ($date validator->validate($date string)) {
       $date time = strtotime($date string);
       return date('F jS Y', $date time);
     else {
       return 'The date must be in a DD-MM-YYYY format.';
                          Include a class with the use keyword.
                          Now NestedValidationException is available to our code.
```

Creating the Try/Catch for Validation

```
<?php
use Respect\Validation\Validator;
use Respect\Validation\Exceptions\NestedValidationException;
function validate date($date string)
   $date validator = Validator::date('d-m-Y')->notEmpty();
                                                Where validate returned true or
   try {
       $date validator->assert($date_string); false, we need to use assert, which
       $date time = strtotime($date string);
                                                will fail with an Exception
       return date('F jS Y', $date time);
     catch (NestedValidationException $e) {
       var_dump($e);
                                       Failures will throw a NestedValidationException
```

Submitting an Invalid Date Format

```
/var/www/hello/app/src/validation.php:14:
object(Respect\Validation\Exceptions\AllOfException)[7]
  private 'exceptions' (Respect\Validation\Exceptions\NestedValidationException) =>
   object(SplObjectStorage)[8]
      private 'storage' =>
        array (size=1)
          '00000000535eff7300000006c81c734' => Here is our Exception object
            array (size=2)
  protected 'id' => string 'allOf' (length=5)
  protected 'mode' => int 1
  protected 'name' => string '"someday"' (length=9)
  protected 'template' => string These rules must pass for {{name}}' (length=34)
  protected 'params' =>
   array (size=7)
                        Here is the data we submitted and the rules that it must pass
      'name' => null
      'template' => null
      'rules' =>
        array (size=2)
          '0000000535eff7200000006c81c734' =>
            object(Respect\Validation\Rules\Date)[5]
          '0000000535eff7100000006c81c734' =>
            object(Respect\Validation\Rules\NotEmpty)[6]
```

How Can We Use the Exception?

happens

app/src/validation.php

```
<?php
   $date validator = Validator::date('d-m-Y')->notEmpty();
   try {
       $date validator->assert($date string);
       $date time = strtotime($date string);
       return date('F jS Y', $date time);
                                               The NestedValidationException
   } catch (NestedValidationException $e) {
                                               has a method named getMessages
       var dump($e->getMessages());
                                               that will return some useful
                                               information
```

Let's submit a 'someday' as our date and see what

Viewing the getMessages Method

```
getMessages is returning an array, with one error

/va/www/hello/app/src/validation.php:14:
array (size=1)
0 => string '"someday" must be a valid date. Sample format: "30-12-2005"' (length=59)

Our item is a string with some very helpful information we can give the user!
```

Returning the Errors to the User

```
>:..

$date_validator = Validator::date('d-m-Y')->notEmpty();

try {
    $date_validator->assert($date_string);
    $date_time = strtotime($date_string);
    return date('F jS Y', $date_time);
} catch (NestedValidationException $e) {
    return $e->getMessages();
}

We will return the array of errors!
```

One Method for Presenting the Errors

app/src/app.php

```
<?php
   require DIR . '/../../vendor/autoload.php';
                                                       We will now get a formatted
   require DIR . '/validation.php';
                                                       date, or an array of errors
   if (!empty($date) && !empty($email) && !empty($description)) {
       $value = validate date($date);
                                                is array returns true for an array
      if (is array($value))
           foreach ($value as $error) {
               echo "<span class='error'>$error</span>";
         else {
                                    Now we can loop through the errors and
           echo $value;
                                     present each one with a span tag
```

A Better Approach, With Validation

app/src/app.php

```
Include our validation library
<?php
require DIR . '/../../vendor/autoload.php';
use Respect\Validation\Validator;
use Respect\Validation\Exceptions\NestedValidationException;
                                                   Create custom validators for all
if($ SERVER['REQUEST METHOD'] === 'POST')) {
                                                   of the form fields — each will
   $date = trim($ POST['date']);
   $email = trim($ POST['email']);
                                                   have its own types of validation
   $description = trim($ POST['desc'l)
   $date validator = Validator::date('d-m-Y')->notEmpty();
   $email validator = Validator::email()->notEmpty();
   $desc validator = Validator::stringType()->length(1, 750);
   try {
       $date validator->assert($date);
```

A Better Approach, With Validation

app/src/app.php

```
Using a try/catch, we will
try {
                                                 assert each of our custom
   $date validator->assert($date);
   $email validator->assert($email);
                                                 validators — each will have their
   $desc validator->assert($description);
                                                 own Exception if it fails
   echo date('F jS Y', strtotime($date));
   echo $email;
                                              Here, we are echoing — in a
   echo $description;
                                              real-world application, you might
  catch (NestedValidationException $e) {
                                              write this to a database!
   echo'';
   foreach ($e->getMessages() as $message) {
        echo"$message";
                                                   If an Exception occurs, we
   echo'';
                                                   will loop through each of them
                                                   and output to an unordered list
```

Validation Review

What have we learned in this section?

- Using a try/catch block
- Working with exceptions and custom exceptions
- The getMessages method for validation error messages
- Returning errors as an array
- Returning errors by refactoring, using a single try/catch block



