Pipes

Pipes are used to transform data, when we *only* need that data transformed in a template.

If we need the data transformed *generally* we would implement it in our model, for example we have a number 1234.56 and want to display it as a currency such as $1,234.56.

We could convert the number into a string and store that string in the model but if the only place we want to show that number is in a view we can use a pipe instead.

We use a pipe with the | syntax in the template, the | character is called the *pipe* character, like so:

{{ 1234.56 | }}

{{ 1234.56 | currency : 'USD' }}

This would take the number 1234.56 and convert it into a *currency string* for display in the template like USD1,234.56.

We can even chain pipes together like so:

{{ 1234.56 | currency: 'USD' | lowercase }}

The above would print out usd1,234.56.

# Built-in Pipes

* CurrencyPipe
* DatePipe
* DecimalPipe
* JsonPipe
* LowerCasePipe
* UpperCasePipe
* PercentPipe
* SlicePipe
* AsyncPipe

## [CurrencyPipe](https://codecraft.tv/courses/angular/pipes/built-in-pipes/#_currencypipe)

This pipe is used for formatting currencies. Its first argument is an abbreviation of the currency type (e.g. "EUR", "USD", and so on), like so:

{{ 1234.56 | currency:'CAD' }}

The above prints out CA$1,234.56.

If instead of the abbreviation of CA$ we want the currency symbol to be printed out we pass as a second parameter the string symbol-narrow, like so:

{{ 1234.56 | currency:"CAD":"symbol-narrow" }}

The above prints out $1,234.56.

<div class="card card-block">

<h4 class="card-title">Currency</h4>

<div class="card-text">

<p ngNonBindable>{{ 1234.56 | currency:'CAD' }}</p>

<p>{{ 1234.56 | currency:"CAD" }}</p>

<p ngNonBindable>{{ 1234.56 | currency:'CAD':'code' }}</p>

<p>{{ 1234.56 | currency:'CAD':'code'}}</p>

<p ngNonBindable>{{ 1234.56 | currency:'CAD':'symbol' }}</p>

<p>{{ 1234.56 | currency:'CAD':'symbol'}}</p>

<p ngNonBindable>{{ 1234.56 | currency:'CAD':'symbol-narrow' }}</p>

<p>{{ 1234.56 | currency:'CAD':'symbol-narrow'}}</p>

</div>

</div>