Do I need to consider the batch_size when defining own module

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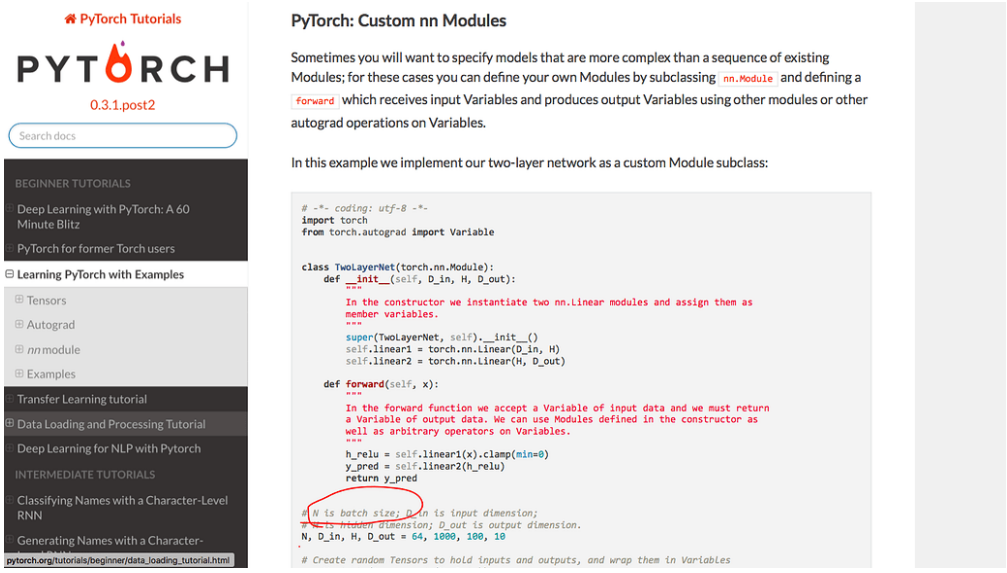
From the tutorial, I got that



we need to consider the batch_size when using the Linear layer. Then if I define own module ,do i need to consider the batch_size, e.g if the original input is a input_feature Tensor, if we consider the batch_size, then the input will be batch_size*input_feature Tensor

ptrblck Apr '18

You don't need to consider the batch size when initializing the `Modules`. The `Linear` layer for example takes `in_features` as an argument, which would be dimension 1 for `x = torch.randn(10, 20)`.

However, when you need another `view` on the `Tensor`, e.g when you need to flatten the `Tensor` coming from a `Conv2d`, you most likely want to keep the batch size and flat all remaining dimensions.
You would do it in the `forward` method:

```
x = self.conv(x)
x = x.view(x.size(0), -1) #keep batch size
x = self.fc(x)
```

Does this explanation make it clearer?