



MCR 2017

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**Checkout customizations in Magento 2**

**UK.MAGETITANS.COM**

#MageTitansMCR  @MageTitans

## Extending Checkout...

- UI component
- XML
- Layout processor
- Config provider
- Plugin/Interceptor
- Template
- JavaScript Component
- JavaScript Mixin
- Extension Attributes

# Checkout UI Component

```
define([
  'uiComponent'
], function (Component) {
  'use strict';

  return Component.extend({
    defaults: {
      template: 'Giftsdirect_Checkout/messages'
    }
  });
});
```

```
<div id="messages" class="messages" data-bind="html: content"></div>
```

# Checkout UI Component - Declaration

```
<item name="login-errors" xsi:type="array">  
  <item name="component" xsi:type="string">MageTitans/js/view/messages</item>  
  <item name="displayArea" xsi:type="string">login-messages</item>  
</item>
```

# Checkout Layout XML

```
<referenceBlock name="checkout.root">
  <arguments>
    <argument name="jsLayout" xsi:type="array">
      <item name="components" xsi:type="array">
        <item name="checkout" xsi:type="array">
          <item name="children" xsi:type="array">
            <item name="steps" xsi:type="array">
              <item name="children" xsi:type="array">
                <item name="shipping-step" xsi:type="array">
                  <item name="children" xsi:type="array">
                    <item name="shippingAddress" xsi:type="array">
                      <item name="children" xsi:type="array">
                        <item name="customer-email" xsi:type="array">
                          <item name="template" xsi:type="string">email</item>
                        </item>
                      </item>
                    </item>
                  </item>
                </item>
              </item>
            </item>
          </item>
        </item>
      </item>
    </argument>
  </arguments>
</referenceBlock>
```

# The jsLayout

```
$jsLayout['components']['checkout']['children']  
  ['steps']['children']  
  ['shipping-step']['children']  
  ['shippingAddress']['children']  
  ['customer-email']['template'];
```

# Layout Processor - Dynamic Changes

```
namespace MageTitans\Checkout\Block;
```

```
use Magento\Checkout\Block\Checkout\LayoutProcessorInterface;
```

```
class PromotionalLayoutProcessor implements LayoutProcessorInterface  
{
```

```
    public function process($jsLayout)
```

```
    {
```

```
        $jsLayout['components']['checkout']['children']
```

```
            ['promotional']['config']['content'] = $this->provider->get();
```

```
        return $jsLayout;
```

```
    }
```

```
}
```

## Adding Layout Processor via di.xml

```
<type name="Magento\Checkout\Block\Onepage">
  <arguments>
    <argument name="layoutProcessors" xsi:type="array">
      <item name="promoProcessor" xsi:type="object">PromoLayoutProcessor</item>
    </argument>
  </arguments>
</type>
```



# Configuration Provider

```
namespace MageTitans\Subscription\Model;
```

```
use Magento\Checkout\Model\ConfigProviderInterface;
```

```
class ConfigProvider implements ConfigProviderInterface  
{  
    public function getConfig()  
    {  
        return [  
            'subscription' => [  
                'showOnCheckout' => $this->config->showCheckboxOnCheckout()  
            ]  
        ];  
    }  
}
```

## Adding Config Provider via di.xml

```
<type name="Magento\Checkout\Model\CompositeConfigProvider">
    <arguments>
        <argument name="configProviders" xsi:type="array">
            <item name="subscription" xsi:type="object">MageTitansConfigProvider</item>
        </argument>
    </arguments>
</type>
```

```
return parseInt(window.checkoutConfig.subscription.showOnCheckout)
```

## Plugin/Interceptor

```
namespace MageTitans\Checkout\Plugin;
```

```
use Magento\Checkout\Block\Checkout\LayoutProcessor;
```

```
class AddressLayoutProcessor
```

```
{
```

```
    public function afterProcess(LayoutProcessor $subject, array  
    $jsLayout)
```

```
    {
```

```
        // modifications
```

```
        return $jsLayout;
```

```
    }
```

```
}
```

# Custom Template

```
<div class="control">
  <input class="input-text"
    type="password" name="password" id="customer-password"
    data-validate="{required:true, 'validate-password':true}"/>
  <!-- ko foreach: getRegion('login-messages') -->
    <!-- ko template: getTemplate() --><!-- /ko -->
  <!--/ko-->
</div>
```

# JavaScript Mixin

```
return function (emailComponent) {  
    return wrapper.wrap(emailComponent, function(action, componentData) {  
        componentData.login = function(loginForm) {  
            // custom code  
        };  
  
        return action(componentData);  
    });  
};
```

# JavaScript Component Extend

```
define(  
    [  
        'Magento_Checkout/js/view/summary/abstract-total'  
    ],  
    function (Component) {  
        'use strict';  
  
        return Component.extend({  
            defaults: {  
                title: 'You Save',  
                template: 'MageTitans/total-savings'  
            },  
  
            getValue: function() {  
                return this.getFormattedPrice(9.99);  
            }  
        });  
    }  
);
```



Ben Crook

@front\_end\_code

Following



If there are any M2 UI component gods out there can you attempt to answer this please? It seems so over engineered.

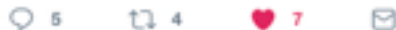


Checkout Form - How to wrap multiple elements in a class ...

How do you wrap two checkout form elements inside a div? For example let's say I wanted to wrap these country and zip/postcode fields in a div with the class of example-class, how  
[magento.stackexchange.com](http://magento.stackexchange.com)

10:21 AM - 8 Nov 2017

4 Retweets 7 Likes



## Shipping Address

Email Address \*



\* You can create an account after checkout.

`<div class="example-class">`

Country \*

United Kingdom



Zip/Postal Code

`</div>`

First Name \*



Last Name \*

Company

## Answer

- New UI Component definition in the checkout\_index\_index.xml
- New HTML template with CSS class
- Layout Processor plugin
- Declare plugin in the di.xml
- (optional) more code for billing address

<https://magento.stackexchange.com/questions/186805>



# Shipping Address

---

Email Address \*



You can create an account after checkout.

---

Country



Zip/Postal Code

First Name \*

Last Name \*

[youtube.com/maxpronko](https://youtube.com/maxpronko)



**MOVE ADDRESS FIELD IN CHECKOUT**

## Summary

- UI Component -> flexibility
- Custom feature -> template override
- Optimal implementation -> time
  
- Extension Attributes -> Custom Storage
- Observable Variables -> track changes

# Q&A

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