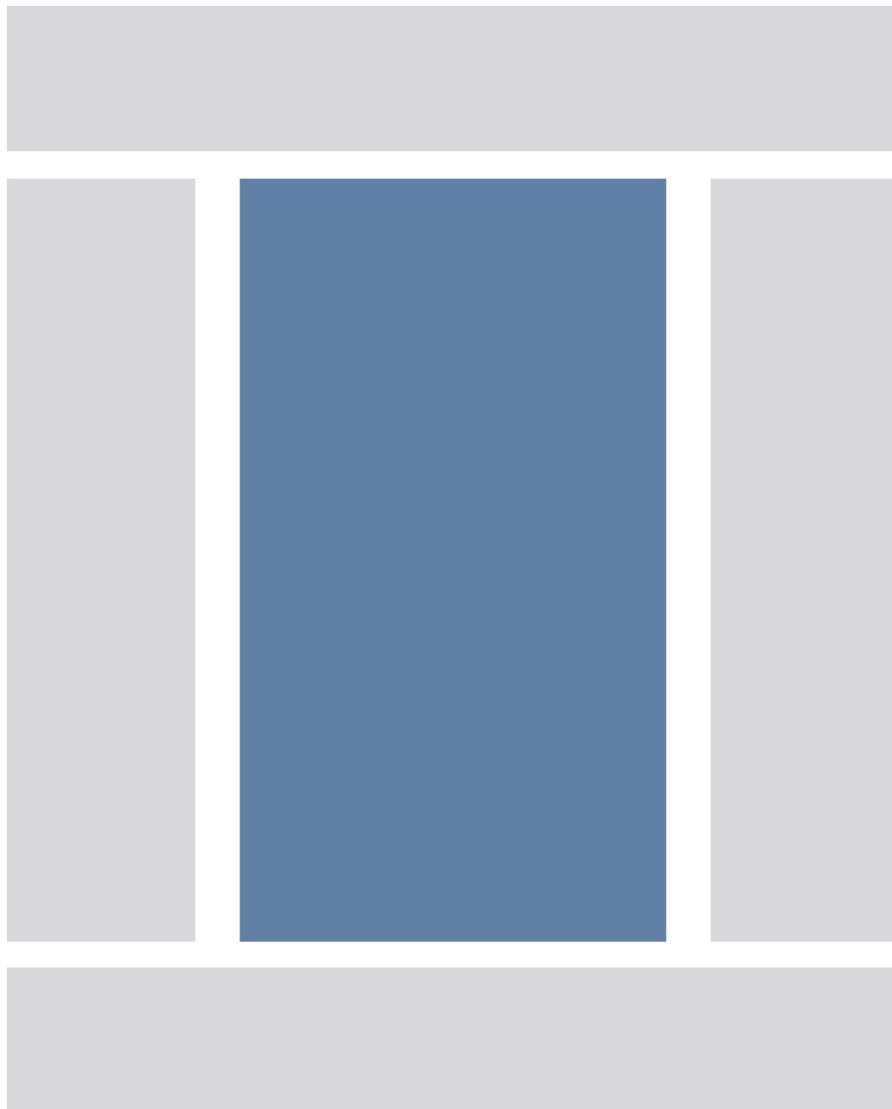


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Drupal 7 Site Building:

Using Display Suite



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This book is for sale at <http://leanpub.com/using-display-suite>

This version was published on 2015-09-13

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Adding CSS Classes to Regions and Fields

The HTML markup that is generated by Display Suite and Drupal is not the leanest. Often the CSS classes which are added are very generic like `group-left` and `group-right`. When you need to style a region or field sometimes it can be really helpful if you can add custom CSS classes to elements. Luckily for us, Display Suite allows you to define your own CSS classes for regions and fields.

In this chapter, we'll continue working on the “Latest articles” block view that we created previously. We'll create a CSS class called `latest-articles-left` for the left region and `latest-articles-right` for the right.

```
▼<div class="view view-latest-articles view-id-latest_articles view-display-id-block view-dom-id-24061116680870f593fc9af1ce722c1">
  ▼<div class="view-content">
    ▼<div class="views-row views-row-1 views-row-odd views-row-first">
      ▼<div about="/node/58" typeof="sioc:Item foaf:Document" class="ds-2col-stacked node node-article cor
      region view-mode-block_teaser clearfix">
        ▶<div class="contextual-links-wrapper contextual-links-processed">...</div>
        ▶<div class="group-header">...</div>
        ▶<div class="group-left">...</div> ←
        ▶<div class="group-right">...</div>
        ▶<div class="group-footer">...</div>
        ::after
      </div>
    </div>
    ▶<div class="views-row views-row-2 views-row-even">...</div>
```

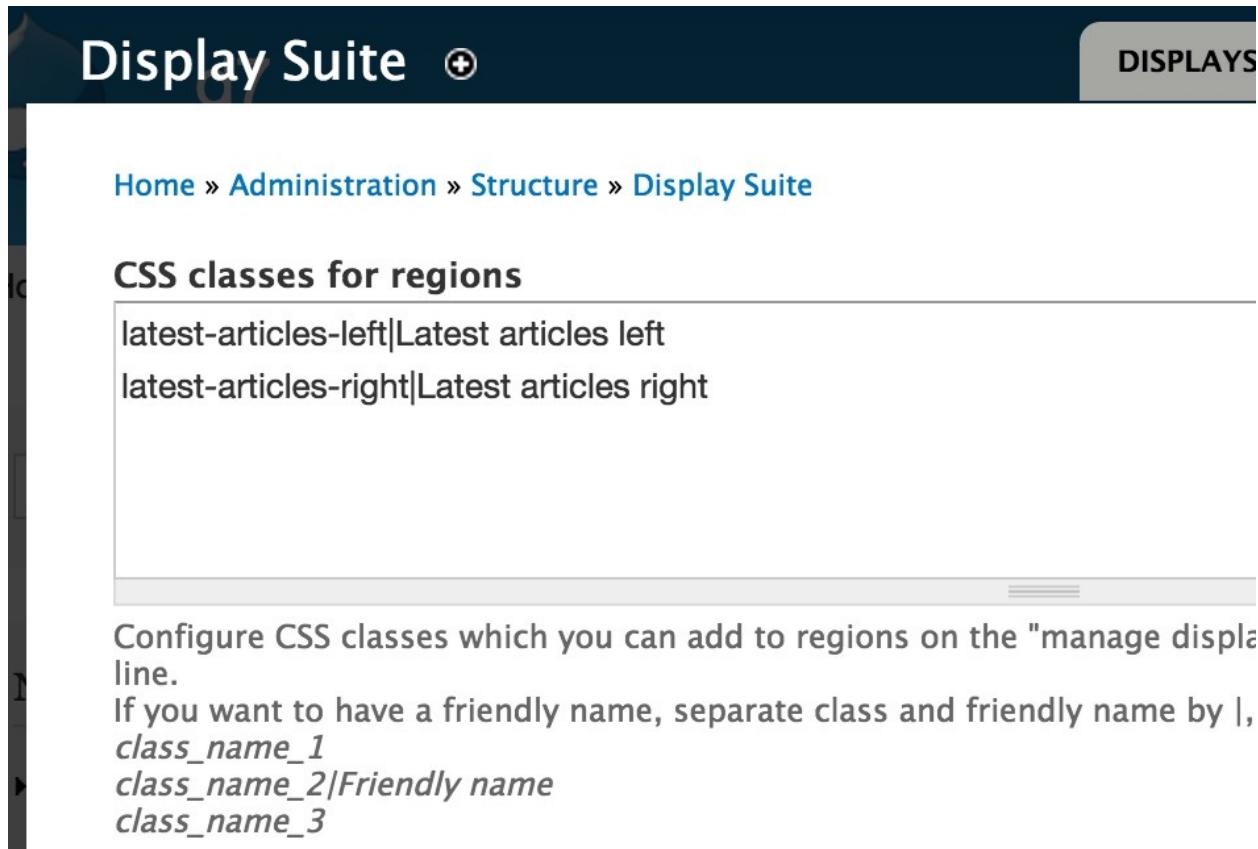
Fig 3.0: Markup generated by Display Suite.

Let's go ahead and add extra CSS classes.

How-to

1. Go to Structure, “Display Suite” (`admin/structure/ds`) and click on the “CSS classes” tab.
2. In the “CSS classes for regions” text area add the following code, then click on the “Save configuration” button.

```
1 latest-articles-left|Latest articles left
2 latest-articles-right|Latest articles right
```



The screenshot shows a Drupal administrative interface for the Display Suite module. The top navigation bar includes 'Display Suite' and a 'DISPLAYS' tab. Below this, the breadcrumb navigation shows 'Home » Administration » Structure » Display Suite'. The main content area is titled 'CSS classes for regions'. It contains two text input fields: 'latest-articles-left|Latest articles left' and 'latest-articles-right|Latest articles right'. A note below the fields explains the format for friendly names: 'If you want to have a friendly name, separate class and friendly name by |, *class_name_1* | *class_name_2* / *Friendly name* | *class_name_3*'.

Fig 3.1: The “CSS classes for regions” text area.

3. Go to Structure, “Display Suite” and click on “Manage display” within the Article row. Click on “Block teaser” in the top right corner.
4. Click on the “Custom classes” vertical tab option and you should see the CSS classes within the select boxes.
5. Select the “Latest articles left” class within the “Class for left” drop-down box and “Latest articles right” class within the “Class for right” drop-down box. Once everything has been selected click on Save.

The screenshot shows the 'Custom classes' tab selected in a vertical tab interface. The interface is divided into two main columns: 'Layout for article in block teaser' (left) and 'Class for layout' (right), followed by 'Custom wrappers' (left) and 'Class for header' (right), then 'Custom classes' (left) and 'Class for left' (right), then 'Custom fields' (left) and 'Class for right' (right), and finally 'Manage region and field CSS classes' (left) and 'Class for footer' (right). Each 'Class for' section contains a dropdown menu with three options: 'None', 'Latest articles left', and 'Latest articles right'. The 'Latest articles left' option is highlighted in the 'Class for layout', 'Class for header', 'Class for left', 'Class for right', and 'Class for footer' sections.

Layout for article in block teaser	Class for layout
Custom wrappers	None Latest articles left Latest articles right
Custom classes	
Custom fields	Class for header
	None Latest articles left Latest articles right
	Class for left
	None Latest articles left Latest articles right
	Class for right
	None Latest articles left Latest articles right
	Class for footer
	None Latest articles left Latest articles right
Manage region and field CSS classes	

Fig 3.2: The “Custom classes” vertical tab option.

Now if you refresh the homepage and view the HTML source you should see the custom CSS classes within the wrapping DIV.

```

▼ <div class="view view-latest-articles view-id-latest_articles view-display-id-block view-dom-id-3fb04481cbe1f8b20dd1e21982a75f1d">
  ▼ <div class="view-content">
    ▼ <div class="views-row views-row-1 views-row-odd views-row-first">
      ▼ <div about="/node/58" typeof="sioc:Item foaf:Document" class="ds-2col-stacked node node-article content region view-mode-block_teaser clearfix">
        ▶ <div class="contextual-links-wrapper contextual-links-processed">...</div>
        ▶ <div class="group-header">...</div>
        ▶ <div class="group-left latest-articles-left">...</div> ←
        ▶ <div class="group-right latest-articles-right">...</div>
        ▶ <div class="group-footer">...</div>
        ::after
      </div>
    </div>
  </div>
</div class="views-row views-row-2 views-row-even">...</div>

```

Fig 3.3: Generated markup with custom class.

Region Wrappers

You saw how easy it was to add custom CSS classes to elements. Now let's change the actual elements themselves. Display Suite uses the DIV element by default to wrap all regions, however, wrappers can be changed.

Custom region wrappers allow you to use different tags for specific regions. You could use HEADER for the header region and FOOTER for the footer region.

Let's now do that to the "Latest articles" block.

How-to

1. Go to Structure, "Display Suite" (admin/structure/ds) and click on "Manage display" within the Article row. Click on "Block teaser" in the top right corner.
2. Click on the "Custom wrappers" vertical tab option.
3. Select Header within the "Wrapper for Header" drop-down list and Footer within the "Wrapper for Footer" drop-down list. Finally, select Article within the "Layout wrapper" drop-down list and click on Save.

Your selected options should look like Fig 3.4.

The screenshot shows a configuration interface for a 'Layout for article in block teaser'. On the left, there is a vertical tab menu with four options: 'Custom wrappers' (which is selected and highlighted in blue), 'Custom classes', 'Custom fields', and an empty space. The main content area on the right is titled 'Choose a wrapper. All Display Suite layouts support this option.' and contains five dropdown menus for 'Header', 'Left', 'Right', 'Footer', and 'Layout wrapper', each set to 'Div'. Below these is a section for 'Layout attributes' with a text input field containing 'E.g. role="navigation"'. At the bottom, there is an 'Add link' section with a dropdown set to 'No link' and a note: 'This will add an onclick attribute on the layout wrapper.' There is also a checked checkbox for 'Merge other layout attributes' with a note: 'Certain modules might provide additional attributes for the template wi specify these attributes above.'

Layout for article in block teaser

Custom wrappers

Custom classes

Custom fields

Choose a wrapper. All Display Suite layouts support this option.

Wrapper for Header
Header ▾

Wrapper for Left
Div ▾

Wrapper for Right
Div ▾

Wrapper for Footer
Footer ▾

Layout wrapper
Article ▾

Layout attributes

E.g. role="navigation"

Add link
No link ▾

This will add an onclick attribute on the layout wrapper.

Merge other layout attributes

Certain modules might provide additional attributes for the template wi specify these attributes above.

Fig 3.4: The “Custom wrappers” vertical tab option.

Go back to the homepage and view the source. You should see the selected wrapper tags.

```
▼<div class="view view-latest-articles view-id-latest_articles view-display-id-block view-dom-id-5b98a619878b0c9eebf07e645325d067">
  ▼<div class="view-content">
    ▼<div class="views-row views-row-1 views-row-odd views-row-first">
      ▼<article about="/node/58" typeof="sioc:Item foaf:Document" class="ds-2col-stacked node node-a region view-mode-block_teaser clearfix">
        ▶<div class="contextual-links-wrapper contextual-links-processed">...</div>
        ▶<header class="group-header">...</header>
        ▶<div class="group-left latest-articles-left">...</div>
        ▶<div class="group-right latest-articles-right">...</div>
        ▶<footer class="group-footer">...</footer>
        ::after
      </article>
    </div>
    ▶<div class="views-row views-row-2 views-row-even">...</div>
    ▶<div class="views-row views-row-3 views-row-odd">...</div>
    ▶<div class="views-row views-row-4 views-row-even">...</div>
```



Fig 3.5: Generated markup with custom wrapper selection.

Adding CSS Classes to Fields

Now that you know how to add CSS classes to regions, let's do the same for fields. We'll add latest-articles-image to the image and latest-articles-text to the trimmed body field to the "Latest articles" block.

How-to

1. Go to Structure, "Display Suite" (admin/structure/ds) and click on the "CSS classes" tab.
2. In the "CSS classes for fields" text area add the following code, then click on the "Save configuration" button.

```
1 latest-articles-image|Latest articles image
2 latest-articles-text|Latest articles text
```

CSS classes for fields

latest-articles-image|Latest articles image

latest-articles-text|Latest articles text

Configure CSS classes which you can add to fields on the "manage display" screens. Add multiple classes separated by a space. If you want to have a friendly name, separate class and friendly name by |, but this is not required. You can use underscores to separate class names.

class_name_1
class_name_2|Friendly name
class_name_3

Fig 3.6: The “CSS classes for fields” text area.

Now that we've defined our CSS classes, let's assign them to fields. To do this we need to enable the “Display Suite Extras” sub-module. To tell you the truth, I don't know why it's required. When assigning classes to regions the sub-module is not required but with fields it is.

3. Go to Modules and enable the “Display Suite Extras” sub-module.
4. Go to Structure, “Display Suite” and click on the “Extras” tab.

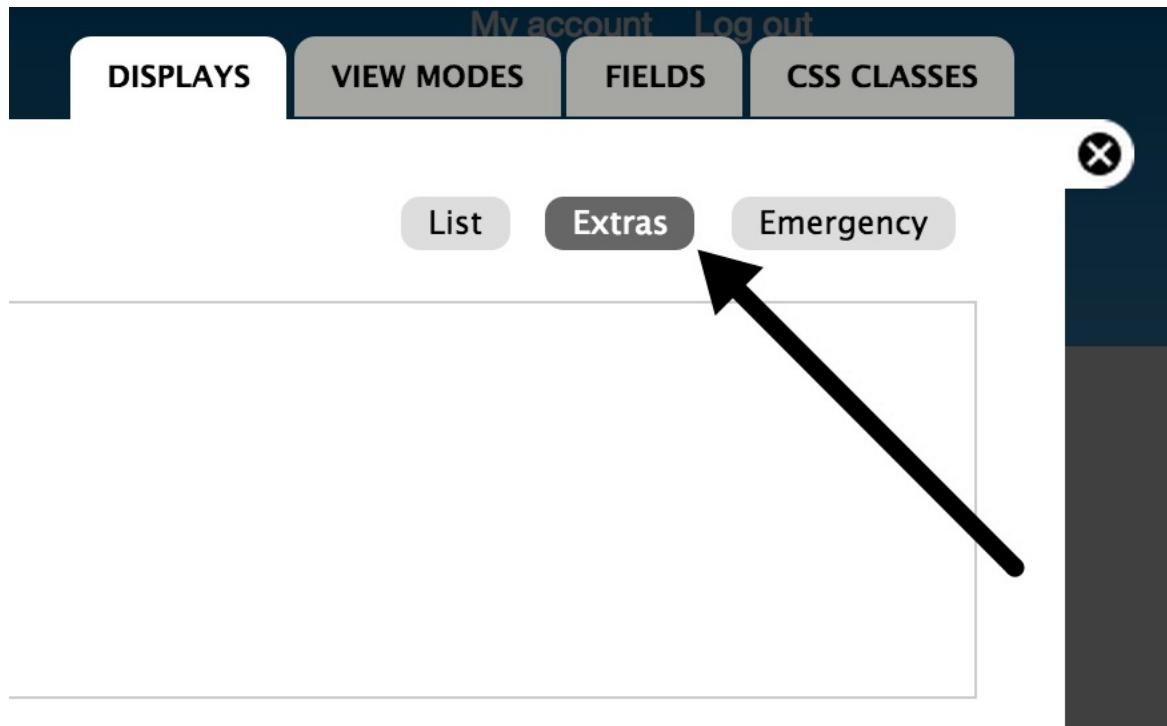


Fig 3.7: The Extras tab on the “Display Suite” page.

5. Check the “Enable Field Templates” checkbox and click on “Save configuration”.

Field Templates
Enabled: Drupal default

Extra fields
Disabled

Other
Disabled

Enable Field Templates
Customize the labels and the HTML output of your fields.

Default Field Template
Drupal default

Default will output the field as defined in Drupal Core.
Reset will strip all HTML.
Minimal adds a simple wrapper around the field.
There is also an Expert Field Template that gives full control over the output.

You can override this setting per field on the "Manage display" section.

Template suggestions
You can create .tpl files as well for these field theme functions,

CSS classes
You can add custom CSS classes on the [classes form](#). Display Suite also allows you to add CSS classes to fields using the Default Field Template.

Advanced
You can create your own custom field templates which need to implement the `field_info_form()` and `field_info_view_mode()` hooks. See `ds.api.php` for an example.

Fig 3.8: The “Enable Field Templates” checkbox on the Extras page.

Field templates allow you to change the HTML markup used on individual fields. Display Suite comes with four field templates: “Drupal default”, “Full Reset”, Minimal and Expert.

The same functionality also allows you to add CSS classes to fields, this is what we’re after. Just remember, this functionality not only lets you use different templates it also allows you to assign CSS classes to fields.

4. Go to Structure, “Display Suite” and click on “Manage display” within the Article row. Click on “Block teaser” in the top right corner.
5. Click on the cogwheel within the Image field and you should notice two extra field settings. Select “Latest articles image” from “Choose additional CSS classes for the field”, then click on Update.

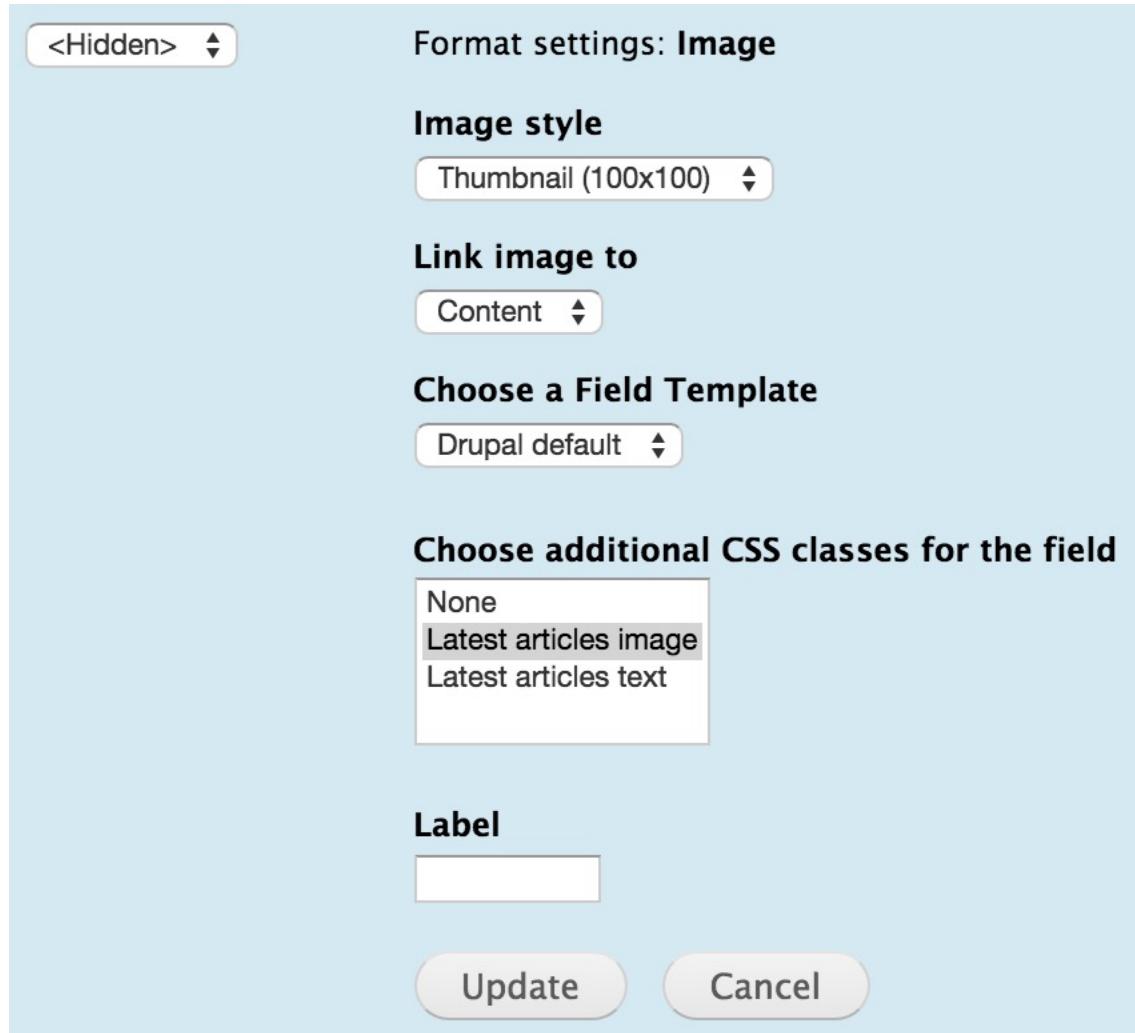


Fig 3.9: Select “Latest articles image” class on Image field.

6. Now, click on the cogwheel within the Body field and select “Latest articles text” and click on Update.

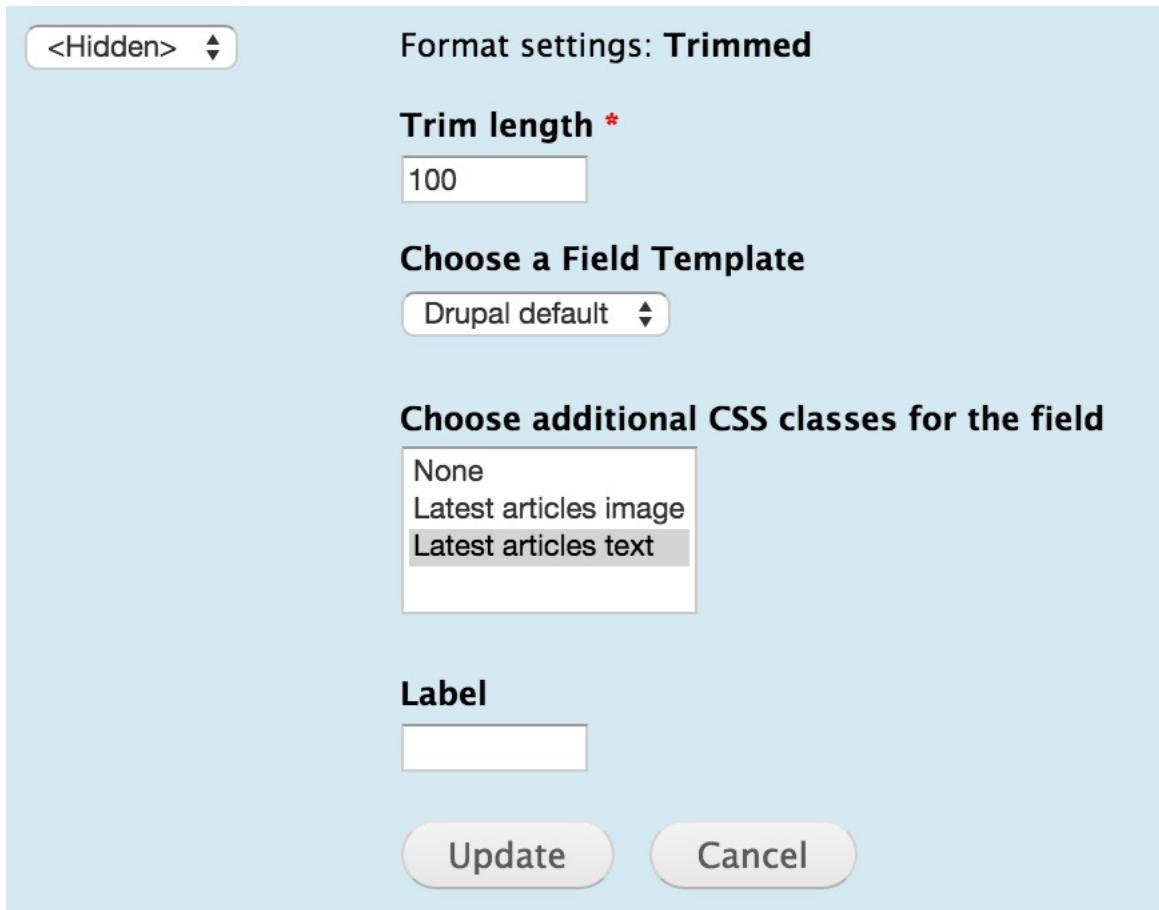


Fig 3.10: Select “Latest articles text” class on Body field.

7. Once you've assigned CSS classes to fields, scroll to the bottom and click on Save.
8. Go to the homepage and inspect the HTML within the “Latest articles” block and you should see the CSS classes on each field.

```

▼<article about="/node/58" typeof="sioc:Item foaf:Document" class="ds-2col-stacked node node-article contextual-links-region view-mode-block_teaser clearfix">
  ▷<div class="contextual-links-wrapper contextual-links-processed">...</div>
  ▷<header class="group-header">...</header>
  ▷<div class="group-left latest-articles-left">
    ▷<div class="field field-name-field-image field-type-image field-label-hidden latest-articles-image">...</div>
  </div>
  ▷<div class="group-right latest-articles-right">
    ▷<div class="field field-name-body field-type-text-with-summary field-label-hidden latest-articles-text">...</div>
  </div>
  ▷<footer class="group-footer">...</footer>
  ::after
</article>

```

Fig 3.12: Customised generated markup.

Chapter Summary

In this chapter, we looked into powerful functionality that allows you to change the markup that Display Suite generates.

We learnt the following:

1. How to define custom CSS classes for regions and fields
2. How to change region elements
3. We discovered the field templates which allowed us to assign classes to fields