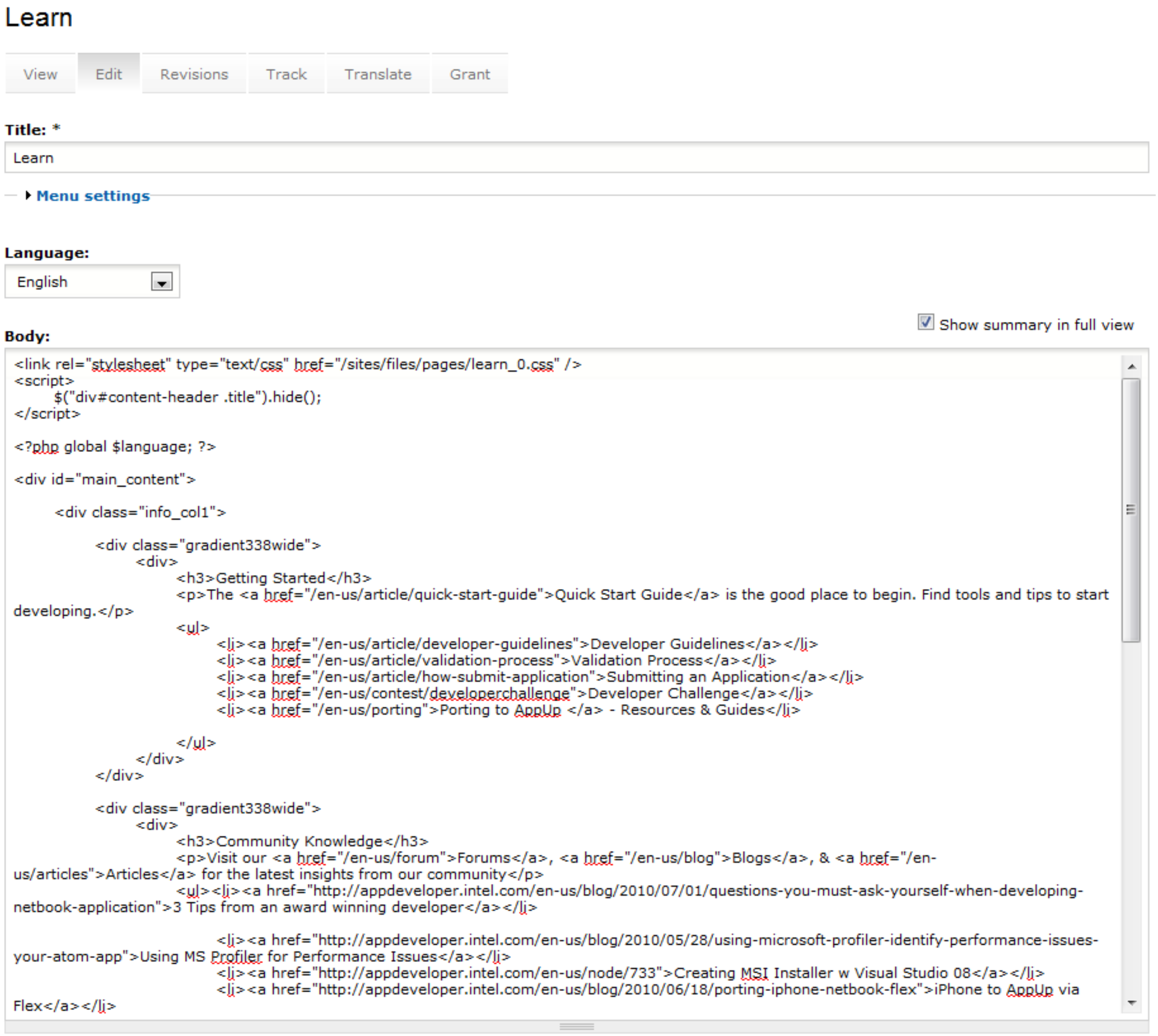
VITALIY MERKULOV
v.merkulov@gmail.com • (360) 977-2473 • 11301 SE 10th St #43. Vancouver, WA 98664

This is the 15 page documentation I wrote and gave to my team member at Intel on July 28 2011.

How to Layout the page content with panels module in Drupal 7.

1. Install panels module for Drupal 7 (http://drupal.org/project/panels)
2. Go to http://appdeveloper.intel.com/en-us/learn
3. If the user wants to update this page, they have to deal with it using html like this



Learn

Title: * Learn

Language: English

☑ Show summary in full view

Body:

```
<link rel="stylesheet" type="text/css" href="/sites/files/pages/learn_0.css" />
<script>
      $("div#content-header .title").hide();
</script>

<?php global $language; ?>

<div id="main_content">

      <div class="info_col1">

            <div class="gradient338wide">
                  <div>
                        <h3>Getting Started</h3>
                        <p>The <a href="/en-us/article/quick-start-guide">Quick Start Guide</a> is the good place to begin. Find tools and tips to start
developing.</p>
                        <ul>
                              <li><a href="/en-us/article/developer-guidelines">Developer Guidelines</a></li>
                              <li><a href="/en-us/article/validation-process">Validation Process</a></li>
                              <li><a href="/en-us/article/how-submit-application">Submitting an Application</a></li>
                              <li><a href="/en-us/contest/developerchallenge">Developer Challenge</a></li>
                              <li><a href="/en-us/porting">Porting to AppUp </a> - Resources & Guides</li>

                        </ul>
                  </div>
            </div>

            <div class="gradient338wide">
                  <div>
                        <h3>Community Knowledge</h3>
                        <p>Visit our <a href="/en-us/forum">Forums</a>, <a href="/en-us/blog">Blogs</a>, & <a href="/en-
us/articles">Articles</a> for the latest insights from our community</p>
                        <ul><li><a href="http://appdeveloper.intel.com/en-us/blog/2010/07/01/questions-you-must-ask-yourself-when-developing-
netbook-application">3 Tips from an award winning developer</a></li>

                              <li><a href="http://appdeveloper.intel.com/en-us/blog/2010/05/28/using-microsoft-profiler-identify-performance-issues-
your-atom-app">Using MS Profiler for Performance Issues</a></li>
                              <li><a href="http://appdeveloper.intel.com/en-us/node/733">Creating MSI Installer w Visual Studio 08</a></li>
                              <li><a href="http://appdeveloper.intel.com/en-us/blog/2010/06/18/porting-iphone-netbook-flex">iPhone to AppUp via
Flex</a></li>
```

4. We will make this easier for content editors to update content on pages. We also don't want content editors to add css styles that could overwrite our other styles. So we will separate the content from the presentation layer. To accomplish this, we need to create couple standard content layouts that content editors can choose from to layout their content for each page, the best way that this can be done in our situation:
    a. We will make a content type for each standard content layout

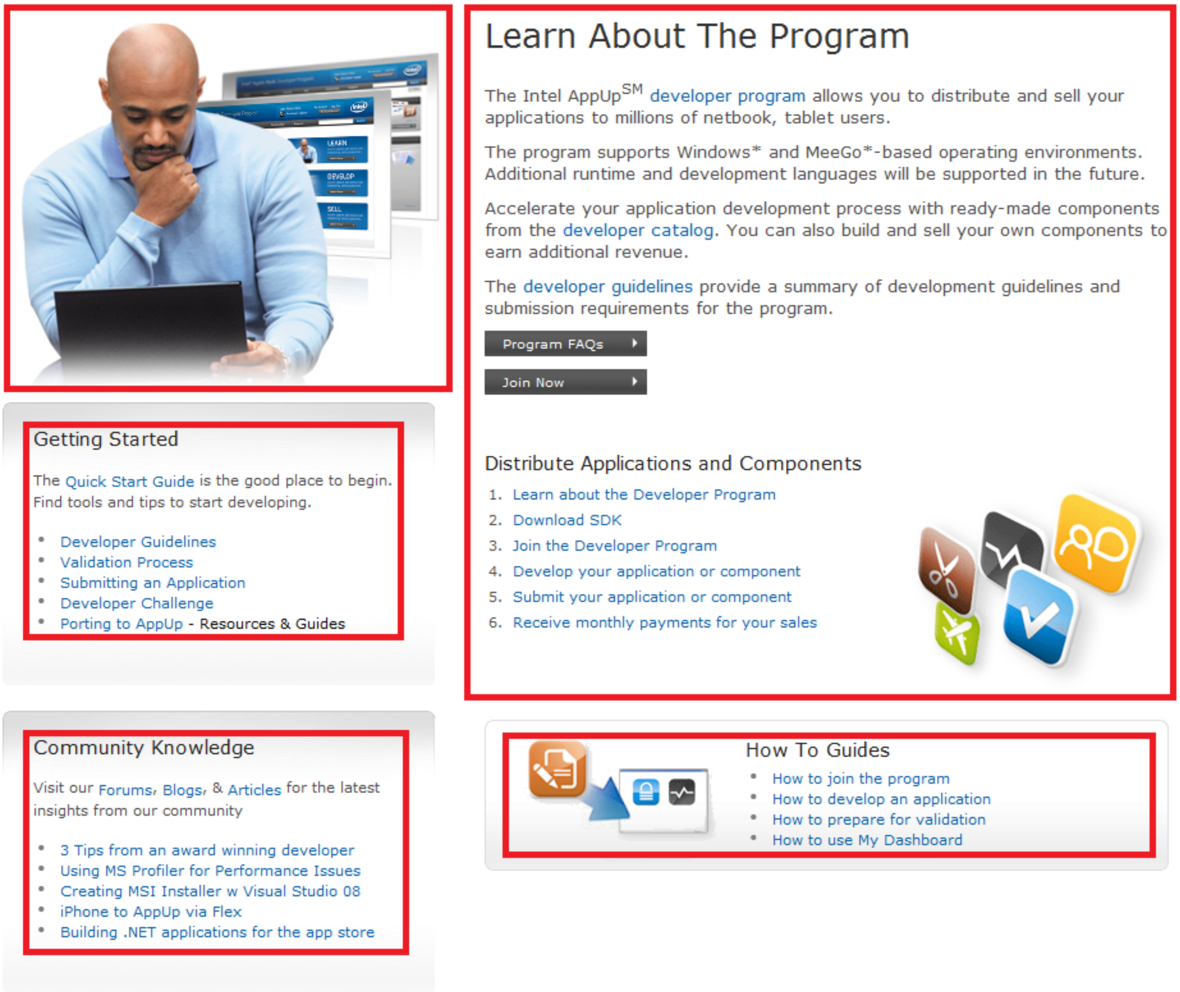
            i. Each of the standard content layouts will have different fields that are needed for that content layout.

   b. Use panels to layout the content (arrange content on page) for each of those content types

   c. Use css file to style each content layout.

5. Lets create a content type for a standard layout that we will call “layout1”, arrange the content in a node with panels, and style the layout with css file

   a. Create layout1 content type with custom fields. We can divide this layout this way. So lets setup fields for each of these fields.



Getting Started

The Quick Start Guide is the good place to begin. Find tools and tips to start developing.

- Developer Guidelines
- Validation Process
- Submitting an Application
- Developer Challenge
- Porting to AppUp - Resources & Guides

Community Knowledge

Visit our Forums, Blogs, & Articles for the latest insights from our community

- 3 Tips from an award winning developer
- Using MS Profiler for Performance Issues
- Creating MSI Installer w Visual Studio 08
- iPhone to AppUp via Flex
- Building .NET applications for the app store

Learn About The Program

The Intel AppUp^{SM} developer program allows you to distribute and sell your applications to millions of netbook, tablet users.

The program supports Windows* and MeeGo*-based operating environments. Additional runtime and development languages will be supported in the future.

Accelerate your application development process with ready-made components from the developer catalog. You can also build and sell your own components to earn additional revenue.

The developer guidelines provide a summary of development guidelines and submission requirements for the program.

Program FAQs ▸

Join Now ▸

Distribute Applications and Components

1. Learn about the Developer Program
2. Download SDK
3. Join the Developer Program
4. Develop your application or component
5. Submit your application or component
6. Receive monthly payments for your sales

How To Guides

- How to join the program
- How to develop an application
- How to prepare for validation
- How to use My Dashboard

   b. To create a content type go to Structure -> Content types -> Add content type

   c. Lets name it “layout 1” and Save content type

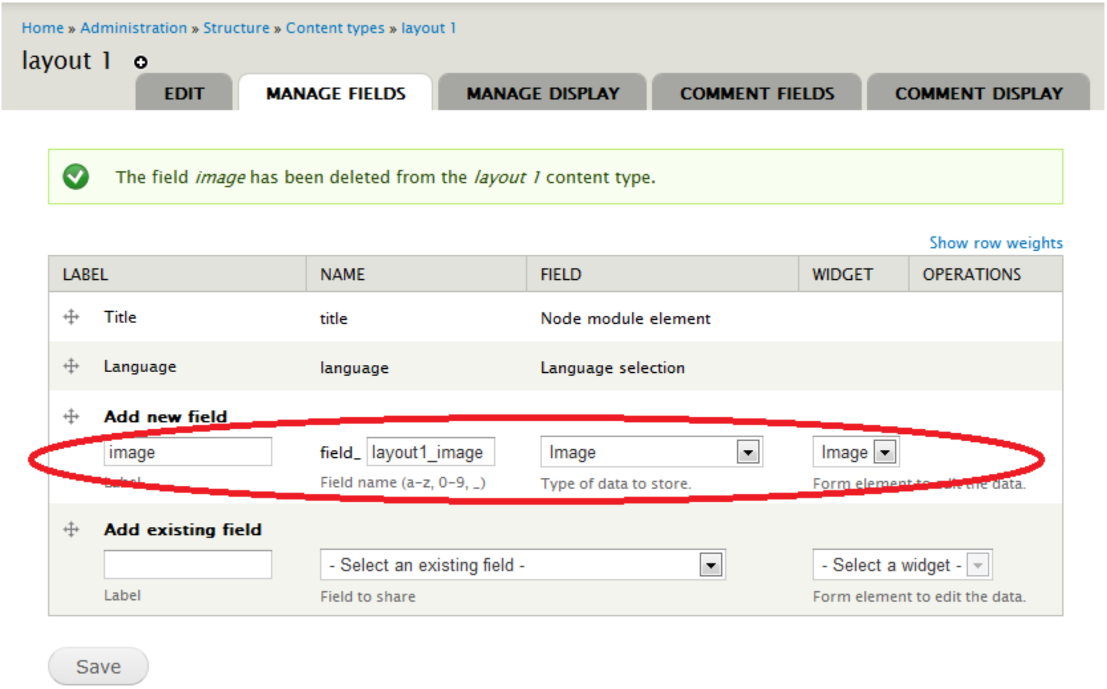
   d. Click on “manage fields” for layout 1 content type

            i. Under “Add new Field” type “image”

            ii. Name it filed_”layout1_image”

            iii. Choose “image” from field type

iv. Click save



Home » Administration » Structure » Content types » layout 1

layout 1

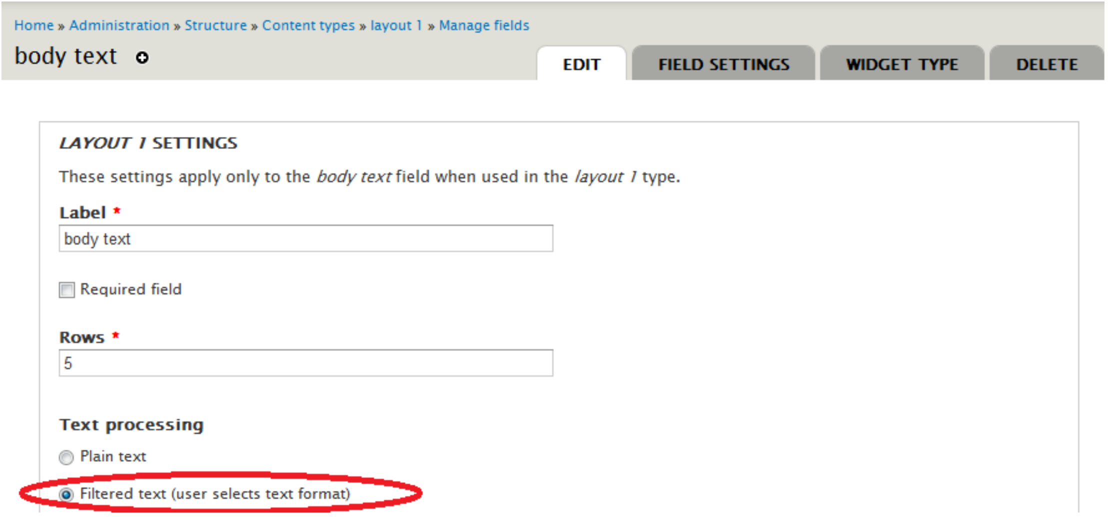
✓ The field *image* has been deleted from the *layout 1* content type.

LABEL	NAME	FIELD	WIDGET	OPERATIONS
Title	title	Node module element		
Language	language	Language selection		
Add new field				
image Label	field_ layout1_image Field name (a-z, 0-9, _)	Image Type of data to store.	Image Form element to edit the data.	
Add existing field				
Label	- Select an existing field - Field to share		- Select a widget - Form element to edit the data.	

v. Click Save field settings

vi. Leave everything as default and click Save settings

vii. Continue creating more fields for this content type and make them all "long text" and under Text processing select "filtered text"



Home » Administration » Structure » Content types » layout 1 » Manage fields

body text

LAYOUT 1 SETTINGS

These settings apply only to the *body text* field when used in the *layout 1* type.

Label *

body text

□ Required field

Rows *

5

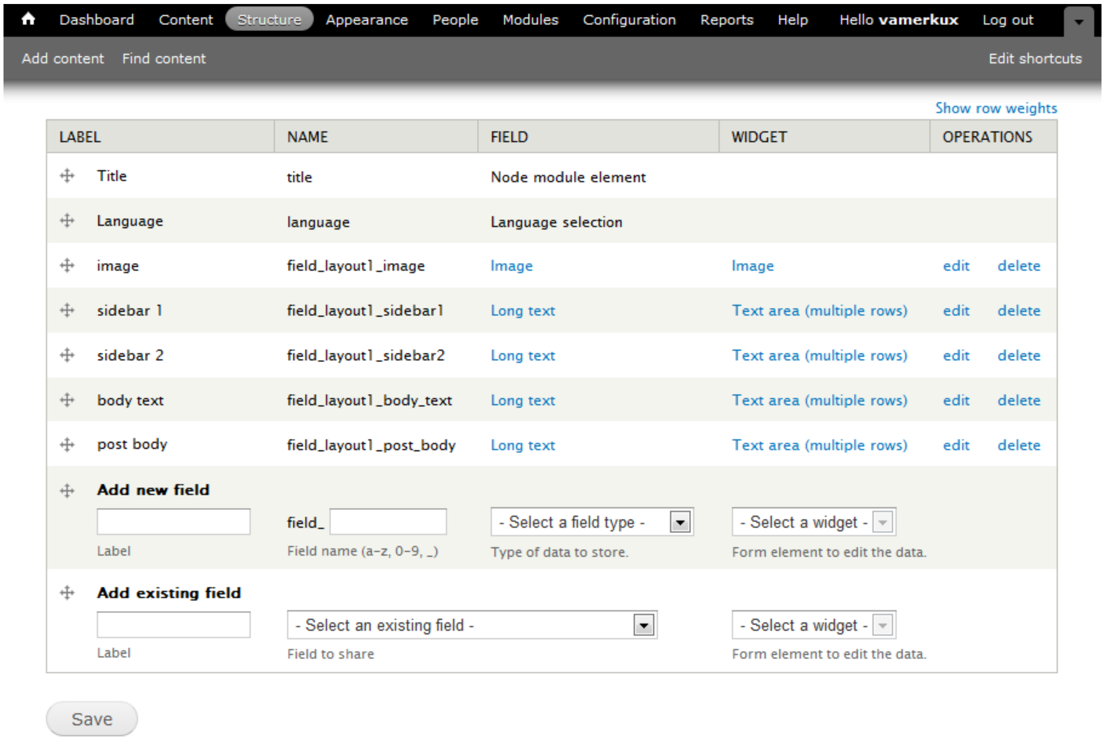
Text processing

○ Plain text

● Filtered text (user selects text format)

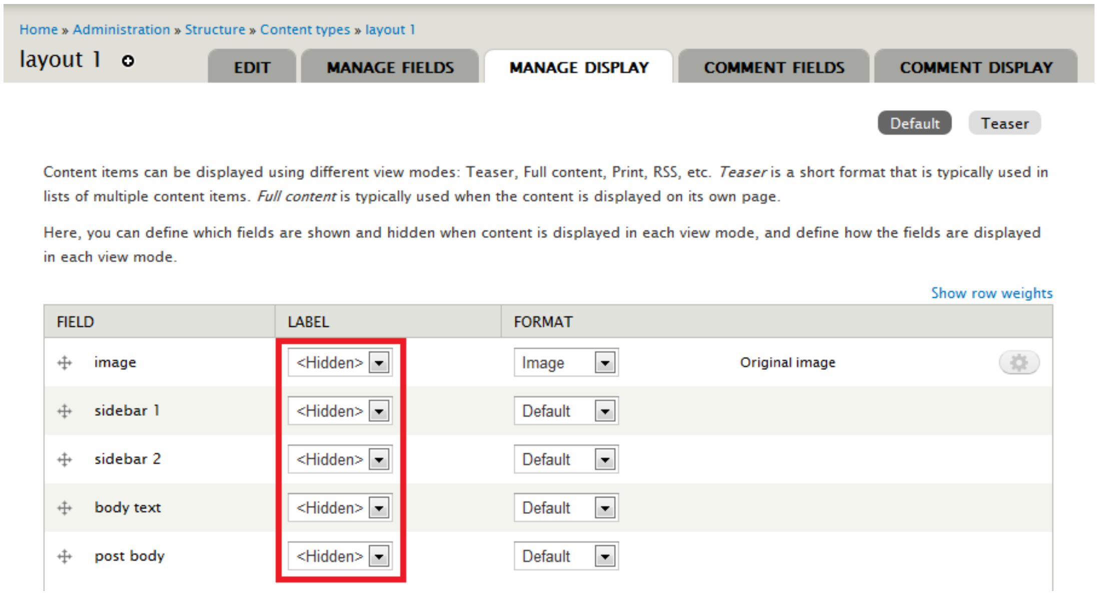
This allows content editors to put html into fields.

viii. Once all the fields are added, see image below.



LABEL	NAME	FIELD	WIDGET	OPERATIONS
Title	title	Node module element		
Language	language	Language selection		
image	field_layout1_image	Image	Image	edit delete
sidebar 1	field_layout1_sidebar1	Long text	Text area (multiple rows)	edit delete
sidebar 2	field_layout1_sidebar2	Long text	Text area (multiple rows)	edit delete
body text	field_layout1_body_text	Long text	Text area (multiple rows)	edit delete
post body	field_layout1_post_body	Long text	Text area (multiple rows)	edit delete
Add new field Label	field_ Field name (a-z, 0-9, _)	- Select a field type - Type of data to store.	- Select a widget - Form element to edit the data.	
Add existing field Label	- Select an existing field - Field to share		- Select a widget - Form element to edit the data.	

ix. Now you need to hide all the labels for each field by going to “manage display”



Content items can be displayed using different view modes: Teaser, Full content, Print, RSS, etc. *Teaser* is a short format that is typically used in lists of multiple content items. *Full content* is typically used when the content is displayed on its own page.

Here, you can define which fields are shown and hidden when content is displayed in each view mode, and define how the fields are displayed in each view mode.

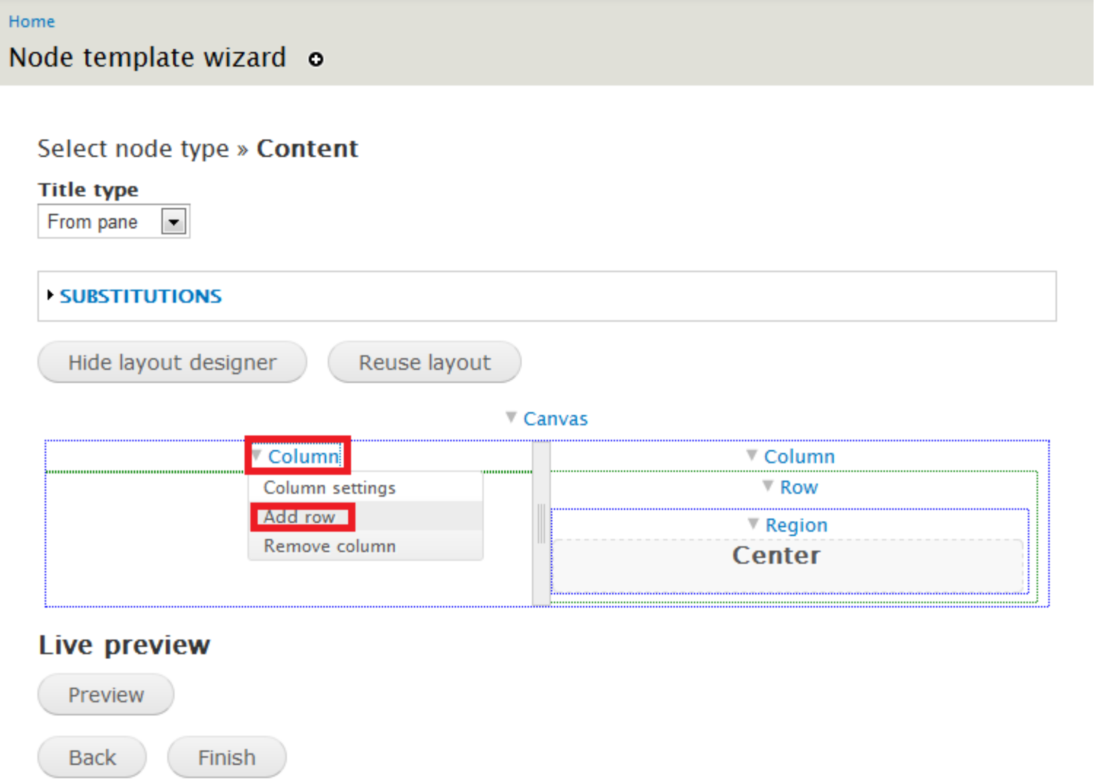
FIELD	LABEL	FORMAT	
image	<Hidden>	Image	Original image
sidebar 1	<Hidden>	Default	
sidebar 2	<Hidden>	Default	
body text	<Hidden>	Default	
post body	<Hidden>	Default	

x. Now that all the fields for layout1 content type are added, let go **create a page node** of type layout1.

1. Content -> Add content -> layout1
2. Enter Title, upload image, and enter data into field text areas and select “Full HTML” for text format
3. At the bottom of the page click on “URL path setting” and enter “learn” for URL alias

        4. Click save

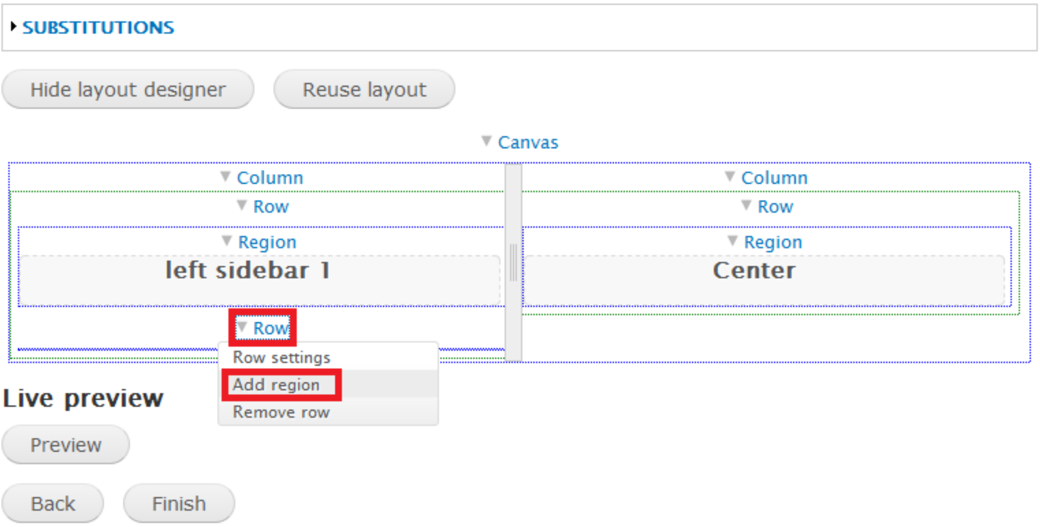
6. Layout the way content is presented on the page with panels module
    a. Install and enable panels module (http://drupal.org/project/panels)
    b. Create a layout for content that’s of type layout1 using panels
        i. Go to Structure -> Panels -> Node template
        ii. Select “layout 1” for node type (this layout will apply to every node that’s layout1 content type)
        iii. Select “Builders” to be able to design a custom layout
        iv. Continue
        v. On the next page click “Show layout designer”
        vi. Click on “Canvas” and select “add column to left”
        vii. In the next screen, choose “Fluid” and click Save
        viii. Now the left column is created to the left side. Now add row inside the left column that we just created.



Title type: From pane

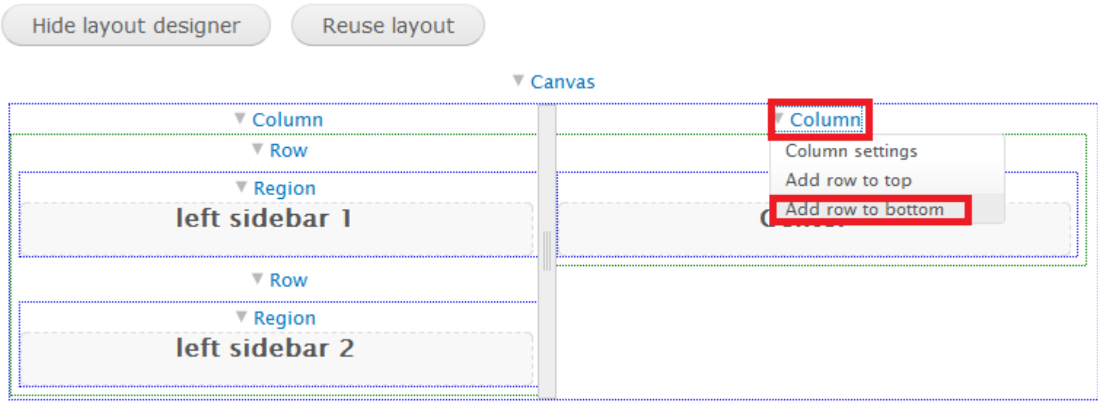
        ix. In the pop-up, leave the css class empty and select “Regions”, Save
        x. Click on left “Row” (that was just created) and select “Add region”
        xi. Give the region title “Left Sidebar 1” and click “Save”
        xii. Create a second left sidebar region. Click on left “Column” and select “Add row to bottom”
        xiii. In the pop-up , leave the css class empty and select “Regions”, Save

xiv. Click on second "Row" (that was just created) and select "Add Region"



xv. In the pop-up, enter "left sidebar 2", Save

xvi. Now layout of the left side is done, we will place the content into those regions in later steps. Let's work on the right side now. We will use the "Center" region for "body". We need to create the post-body region. Click on the right "Column" and select "Add row to bottom"

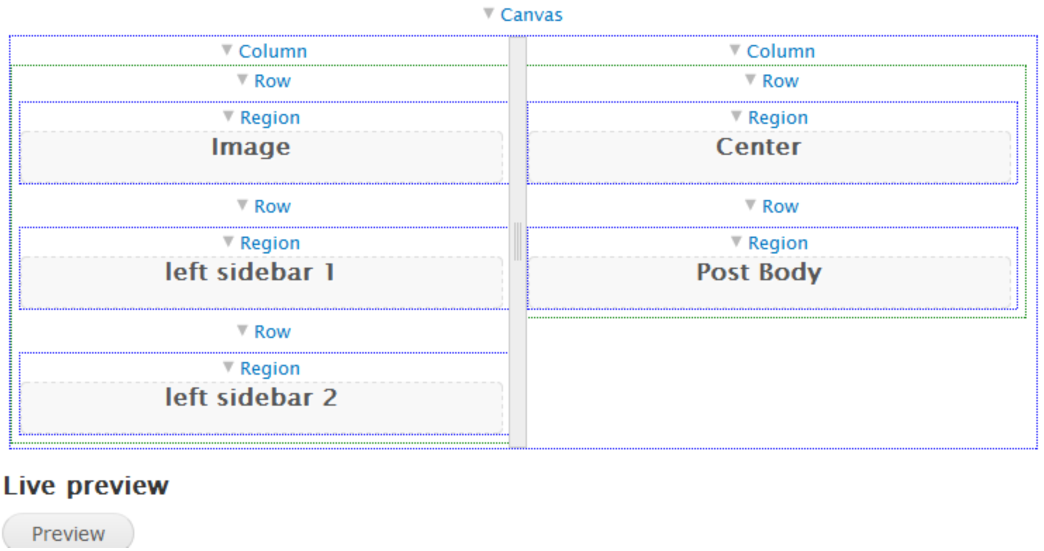


xvii. In the pop-up leave everything, save

xviii. Click on "Row" (that was just created), on the right side, under "Center" region. Then select "Add region", Title the region "Post Body" leave everything default, Save

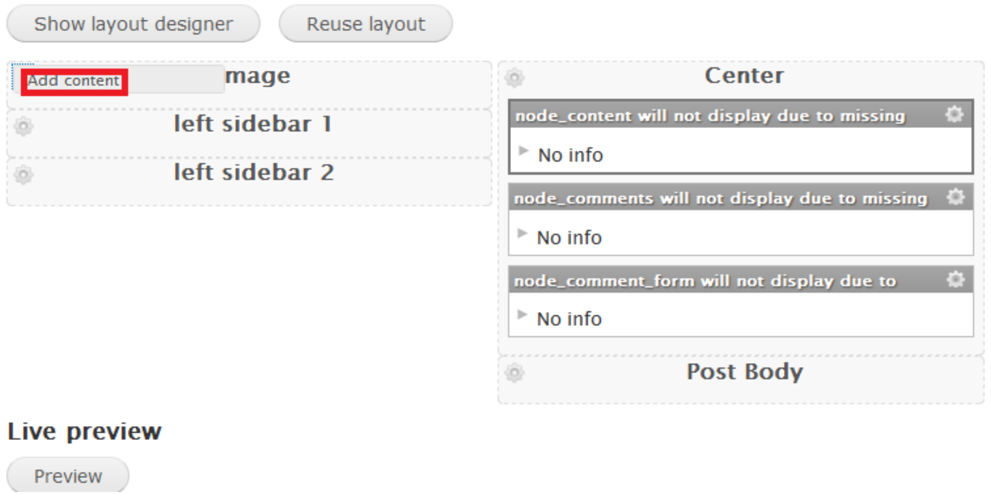
xix. I forgot to add the region for image on the left side. You know how to do that now. Click on left "Column" then select "Add row to top", then click on "Row" (that you just created), and select "Add Region", title the region "Image", Save

xx. We are done with laying out the layout1 content type with panels. It should look like this



xxi. Click "Hide layout designer" don't click on "Finish" yet

xxii. Now let's add content into regions. Click on the gear icon that's on the left side of "Image" region and then select "Add content"



node_content will not display due to missing

No info

node_comments will not display due to missing

No info

node_comment_form will not display due to

No info

xxiii. Click on "Node" (left menu) and click on "Field: image (field_layout1_image) - image_image"

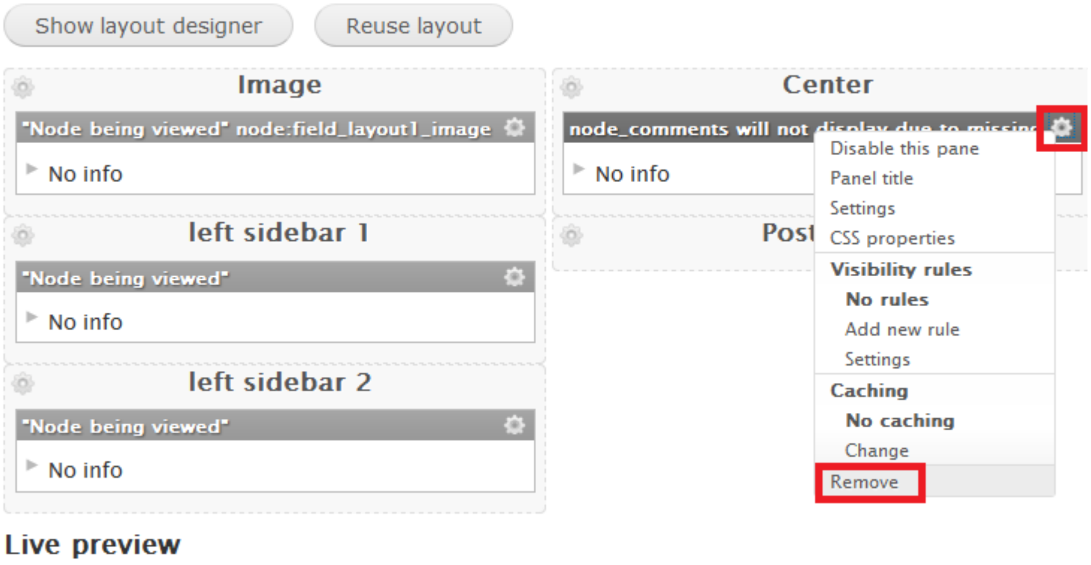
xxiv. On the next page, leave everything default, click "Continue"

xxv. On the next page ("Formatter Styles"), leave everything, click "Finish"

xxvi. Next, "Add content" to left sidebar 1 region by selecting Node -> Field: sidebar 1 (field_layout1_sidebar1) - text_textarea

xxvii. Next do the same for left sidebar 2 region by selecting Node -> Field: sidebar 2 (field_layout1_sidebar2) - text_textarea

xxviii. Next, we need to remove the content that was put into the center region by default. Click on the gears icon on the right side of gray box that's inside the center region, then select “Remove”



xxix. Do this to all three of the default content boxes inside Center region (remove them)

xxx. Now, put the body field into that region. On the “Center” region, click on the gear on the left side -> Add Content. In the pop-up select Node -> Field: body text (field_layout1_body_text) - text_textarea, continue, finish

xxxi. Lastly add content to Post Body region the same way you did with the others, add Node-> Field: post body (field_layout1_post_body) - text_textarea to Post Body region.

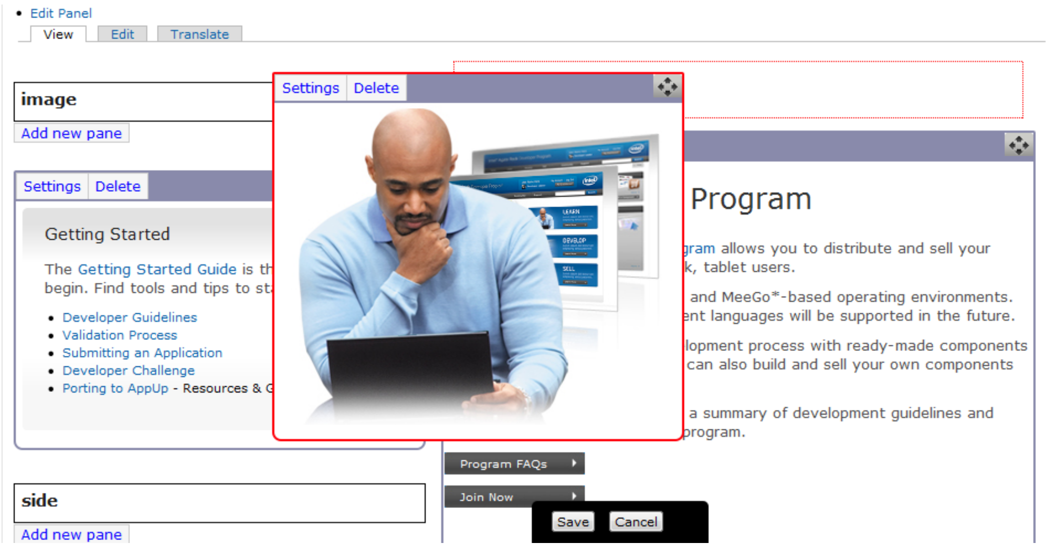
xxxii. We are done with adding content to panels. click “Finish” on the bottom of the page

xxxiii. Now, you will get an error, this is probably a bug, if you are using multiple languages with your website, the page get redirected to `en-us//en-us/admin/structure/pages/nojs/operation/node_view/handlers/node_view_panel_context_5/content` But, just remove the extra `/en-us/` from the url, change it to “`/en-us/admin/structure/pages/nojs/operation/node_view/handlers/node_view_panel_context_5/content`”and it will bring you to the right place (Node Template) admin. This should be fixed soon, so skip this if you don’t get this error.

xxxiv. You should now be in Node Template Admin

xxxv. On the left side, make sure you are in the “layout 1” variant, then click on “General”

xxxvi. Under Render select “In-Place Editor” because we want users to be able to re-arrange stuff on the fly in our situation.(screenshot below shows what in-place-editor will allow users to drag and drop content around the page)



Getting Started

The Getting Started Guide is th
begin. Find tools and tips to st

- Developer Guidelines
- Validation Process
- Submitting an Application
- Developer Challenge
- Porting to AppUp - Resources & G

Program

gram allows you to distribute and sell your
k, tablet users.

and MeeGo*-based operating environments.
ent languages will be supported in the future.

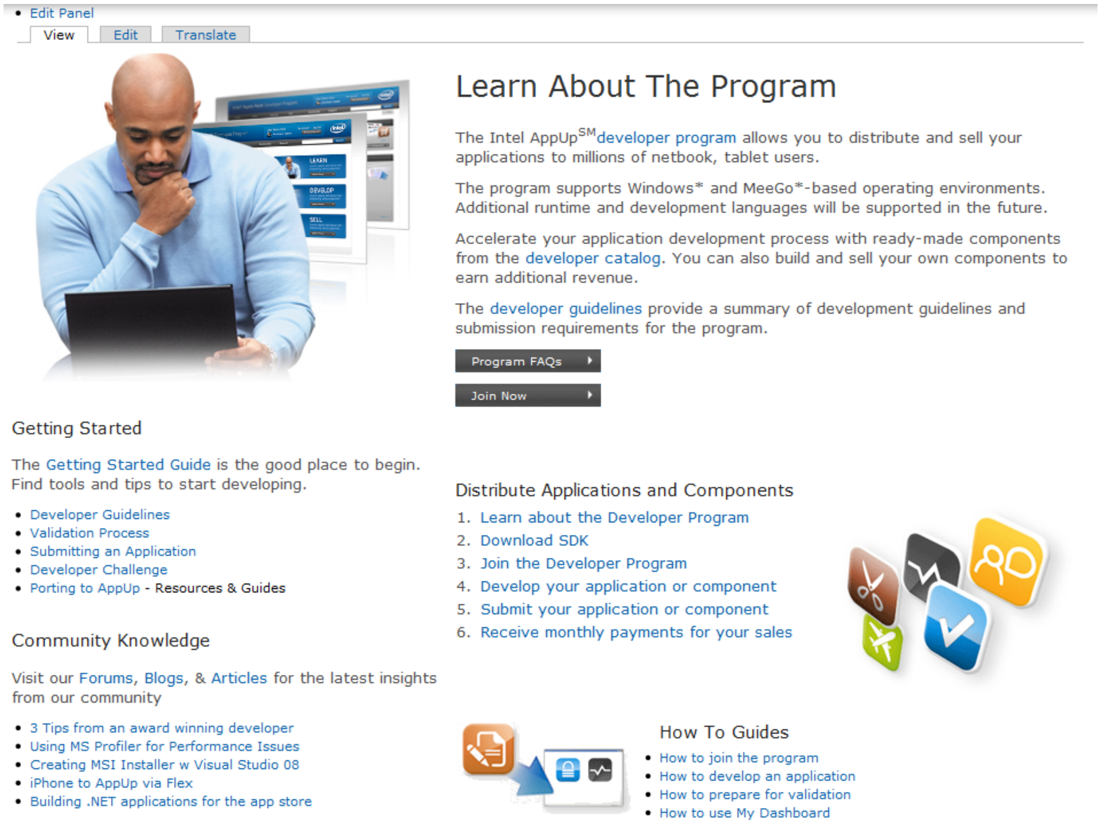
lopment process with ready-made components
can also build and sell your own components

a summary of development guidelines and
program.

xxxvii. Click “Update and Save” in the Node Template Admin.

xxxviii. Now go to the page that we created with layout1 content type. en-us/learn/

xxxix. You should see the page arranged correctly but without styles specific to this page. (note the styles, typography was defined in main css file, the images float right and left were defined inline when text was placed into fields for this node, this could also be done by wusiwug editor too)



Learn About The Program

The Intel AppUp^{SM}developer program allows you to distribute and sell your applications to millions of netbook, tablet users.

The program supports Windows* and MeeGo*-based operating environments. Additional runtime and development languages will be supported in the future.

Accelerate your application development process with ready-made components from the developer catalog. You can also build and sell your own components to earn additional revenue.

The developer guidelines provide a summary of development guidelines and submission requirements for the program.

Getting Started

The Getting Started Guide is the good place to begin. Find tools and tips to start developing.

- Developer Guidelines
- Validation Process
- Submitting an Application
- Developer Challenge
- Porting to AppUp - Resources & Guides

Community Knowledge

Visit our Forums, Blogs, & Articles for the latest insights from our community

- 3 Tips from an award winning developer
- Using MS Profiler for Performance Issues
- Creating MSI Installer w Visual Studio 08
- iPhone to AppUp via Flex
- Building .NET applications for the app store

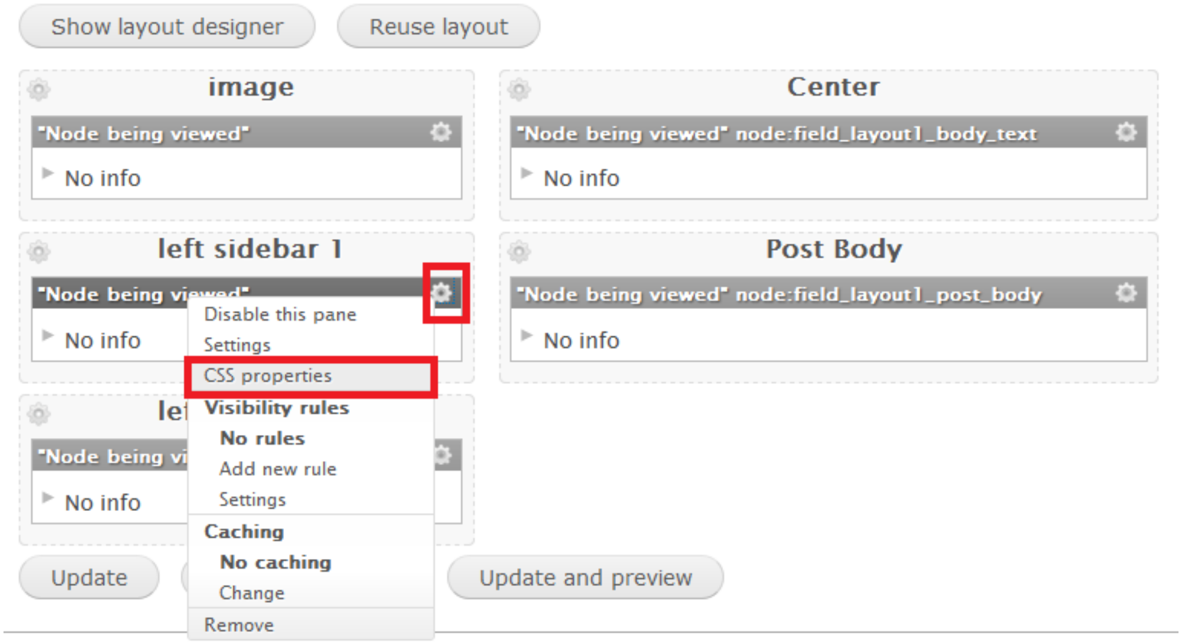
Distribute Applications and Components

1. Learn about the Developer Program
2. Download SDK
3. Join the Developer Program
4. Develop your application or component
5. Submit your application or component
6. Receive monthly payments for your sales

How To Guides

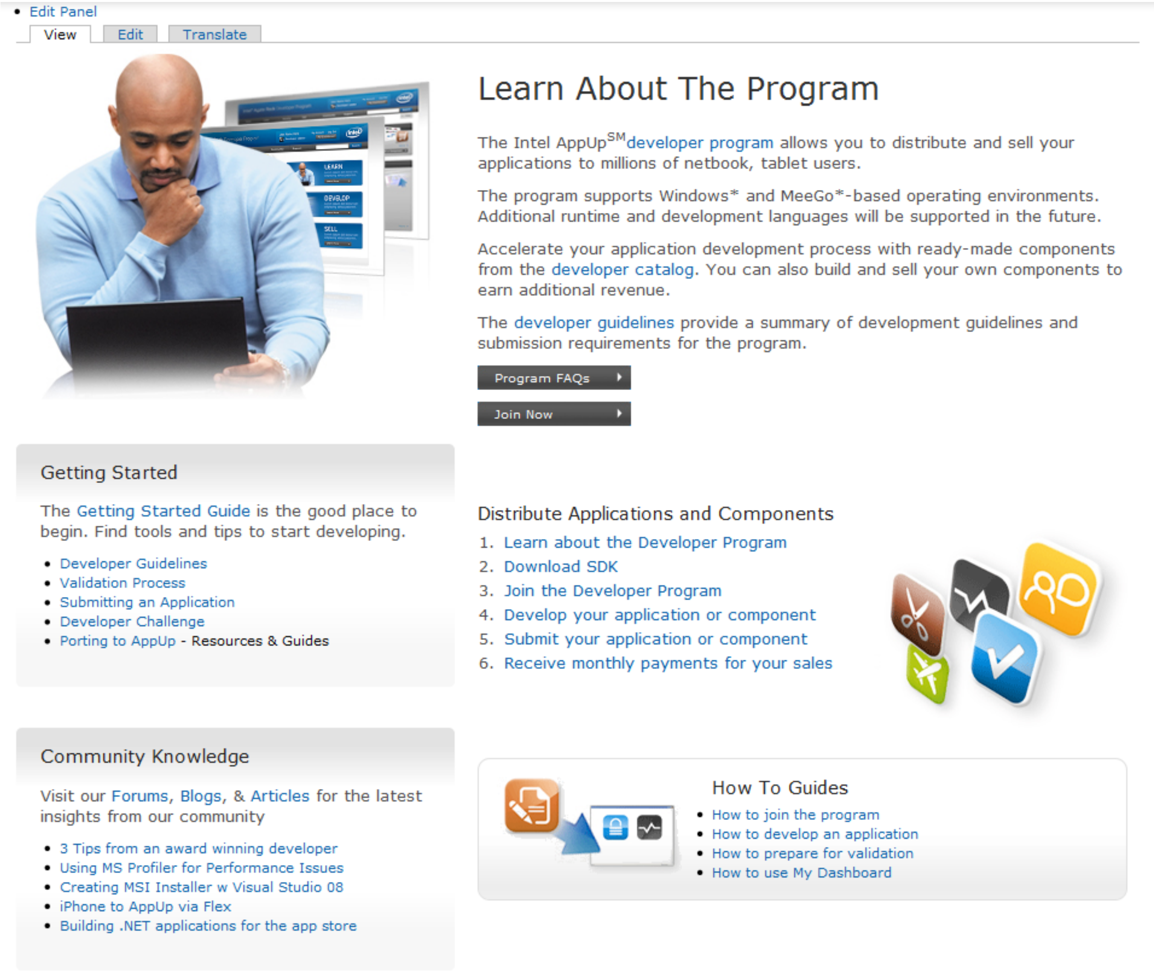
- How to join the program
- How to develop an application
- How to prepare for validation
- How to use My Dashboard

7. Now, that the content is separated into sections and arranged on the page using panels, let's apply styles to the sections that need some more styling. For this layout, we want to style the boxes on the left sidebar, and style the box for post-body with a different style. Since we want the content managers to be able to drag and drop content sections anywhere they want on the page, that means if we want to style the left side boxes to have background, rounded corners, shadow, and gradients, they have to use css only and no top image, middle image, and bottom image. We need to style it strictly with css. So if the box changes width, height, it will still look good. We have about 5 different styles for boxes that are used all over the site. So I reproduced them all with strictly using css. I created a css class for each of the 5 boxes that we use on our site. I also made sure that they all work in all browsers. So I placed those classes in the main css file. Now if we need to apply one of those styles to any sections on the node, all we have to do is add that class name to that section in the panels.
   a. Lets, add .box5 class style to right sidebar1, and right sidebar2. Click on "Edit Panel" link from "/en-us/learn" page.
   b. Click on gears icon on the right side of content that's inside "left sidebar 1", then click on "CSS properties"



   c. Inside CSS class field type "box5" without "." in front. And Save. This will apply the class .box5 to the content that was associated to Sidebar 1 field.
   d. Do the same to the left sidebar 2 content too by applying box5 class to it.
   e. Now add class box3 to the "Post Body" content, following the same steps as above.
   f. Click "Update and save"

g. Go back to the Learn page and see styles that were applied to the left sidebar 1 and 2. Also the box3 class that was applied to the post body content.



- Edit Panel

Learn About The Program

The Intel AppUp^{SM}developer program allows you to distribute and sell your applications to millions of netbook, tablet users.

The program supports Windows* and MeeGo*-based operating environments. Additional runtime and development languages will be supported in the future.

Accelerate your application development process with ready-made components from the developer catalog. You can also build and sell your own components to earn additional revenue.

The developer guidelines provide a summary of development guidelines and submission requirements for the program.

Getting Started

The Getting Started Guide is the good place to begin. Find tools and tips to start developing.

- Developer Guidelines
- Validation Process
- Submitting an Application
- Developer Challenge
- Porting to AppUp - Resources & Guides

Distribute Applications and Components

1. Learn about the Developer Program
2. Download SDK
3. Join the Developer Program
4. Develop your application or component
5. Submit your application or component
6. Receive monthly payments for your sales

Community Knowledge

Visit our Forums, Blogs, & Articles for the latest insights from our community

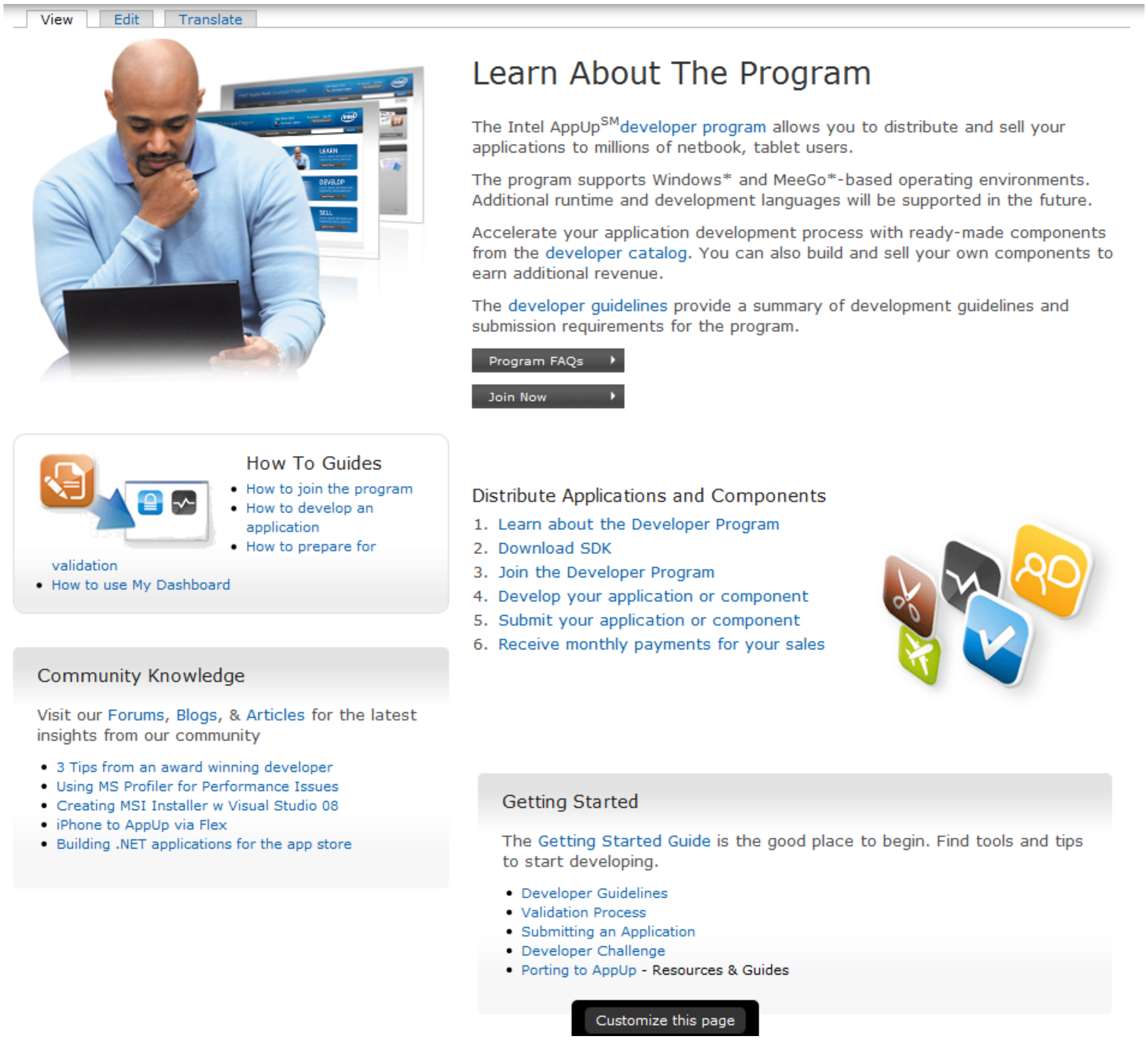
- 3 Tips from an award winning developer
- Using MS Profiler for Performance Issues
- Creating MSI Installer w Visual Studio 08
- iPhone to AppUp via Flex
- Building .NET applications for the app store

How To Guides

- How to join the program
- How to develop an application
- How to prepare for validation
- How to use My Dashboard

h. So, our node content is now arranged on the page with panels, The content is now separate from design, The content editors simply have to click on “edit” on top of the page and will be able to edit the content and do simple styling (like align image to the right and apply styles to text), (we could also enable wusiwug editor to allow content editors to easily style the content) but we will not give the content editors ability to add any custom css styles, JavaScript, or php in fields because allowing them to edit custom styles WILL make conflicts with other style elements on the page. We will restrict the access to edit the panel settings for content managers, and only give that access to administrators or special people who know what they are doing. In other words, content managers will not have access to “edit panel”. But we will give the content editors limited access to only be able to re-arrange content on page with “In-place-editor”. So content editors will have the link “Customize this page” on each panels page. This will let them re-arrange content on the page by drag-and-drop and add other content on the page. They will not be able to change the style of the pages.

8. Let’s see what will happen if the content editors move the “How to Guides” content box to the left sidebar and “Getting Started” box in post-body section using the “In-place-editor”. Go to /en-us/learn/ and click on “Customize this page”
    a. Simply drag the “How to Guide” box to the left sidebar and drag the “Getting started Box” to post-body area. And click Save. It now should look like this



Learn About The Program

The Intel AppUp^{SM}developer program allows you to distribute and sell your applications to millions of netbook, tablet users.

The program supports Windows* and MeeGo*-based operating environments. Additional runtime and development languages will be supported in the future.

Accelerate your application development process with ready-made components from the developer catalog. You can also build and sell your own components to earn additional revenue.

The developer guidelines provide a summary of development guidelines and submission requirements for the program.

How To Guides

- How to join the program
- How to develop an application
- How to prepare for validation
- How to use My Dashboard

Distribute Applications and Components

1. Learn about the Developer Program
2. Download SDK
3. Join the Developer Program
4. Develop your application or component
5. Submit your application or component
6. Receive monthly payments for your sales

Community Knowledge

Visit our Forums, Blogs, & Articles for the latest insights from our community

- 3 Tips from an award winning developer
- Using MS Profiler for Performance Issues
- Creating MSI Installer w Visual Studio 08
- iPhone to AppUp via Flex
- Building .NET applications for the app store

Getting Started

The Getting Started Guide is the good place to begin. Find tools and tips to start developing.

- Developer Guidelines
- Validation Process
- Submitting an Application
- Developer Challenge
- Porting to AppUp - Resources & Guides

    b. We see that everything is working correctly. The backgrounds on the boxes are scaling correctly because they are done with css only.

9. To really finalize the styling of the pages with panels, we need to do some more minor styling adjustments.
    a. Now create a new css file that will contain the adjustments for this content layout and other content layouts so call it layouts.css and place it in sites/all/themes/intel-agate/css/
    b. Now edit sites/all/themes/intel-agate/intel-agate.info and add layouts.css to the list of included css files `stylesheets[all][] = css/layouts.css`

c. We need a way to differentiate each layout from other pages and other content layouts. Lets create a class that will differentiate layout1 from other pages/panels. So click on “Edit Panel”. (from /en-us/learn)

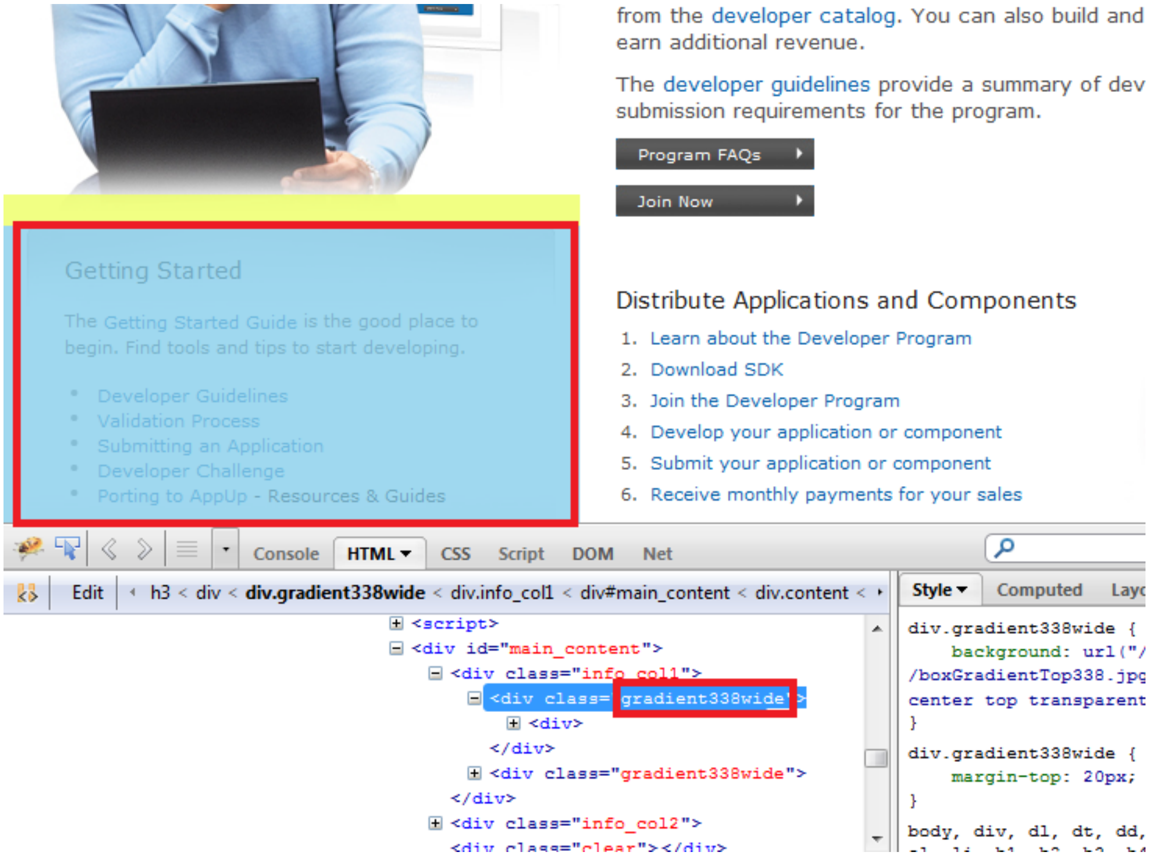
d. Under Layout1 ->General -> CSS ID, enter layout1. (This will add this id to this panel/layout only, so we can later select it with css when we make minor adjustments to css on this Layout 1 panel). Click “Update and save”

e. Now make the css adjustments in layouts.css specific to this layout1 content by starting with the #layout1 for specificity and to avoid style conflicts later. For example:

```
#layout1 #panels-ipe-regionid-side {
margin: -10px 7px;
}
```

10. You can have even more control with css by adding classes to any section in panels. Then you can reference those classes with css.

a. For example. There could be some styling specific to this layout and you want to only apply those styles to elements on left column. So you need to get panels to add a class to the left column and then you can reference that class in css. Then chose styles will only apply to left column.



from the developer catalog. You can also build and earn additional revenue.

The developer guidelines provide a summary of dev submission requirements for the program.

Getting Started

The Getting Started Guide is the good place to begin. Find tools and tips to start developing.

- Developer Guidelines
- Validation Process
- Submitting an Application
- Developer Challenge
- Porting to AppUp - Resources & Guides

Distribute Applications and Components

1. Learn about the Developer Program
2. Download SDK
3. Join the Developer Program
4. Develop your application or component
5. Submit your application or component
6. Receive monthly payments for your sales

Console
HTML
CSS
Script
DOM
Net
Edit
h3 < div < div.gradient338wide < div.info_col1 < div#main_content < div.content <
Style
Computed
Layo

```
<script>
<div id="main_content">
    <div class="info_col1">
        <div class="gradient338wide">
            <div>
        </div>
        <div class="gradient338wide">
    </div>
    <div class="info_col2">
    <div class="clear"></div>
```

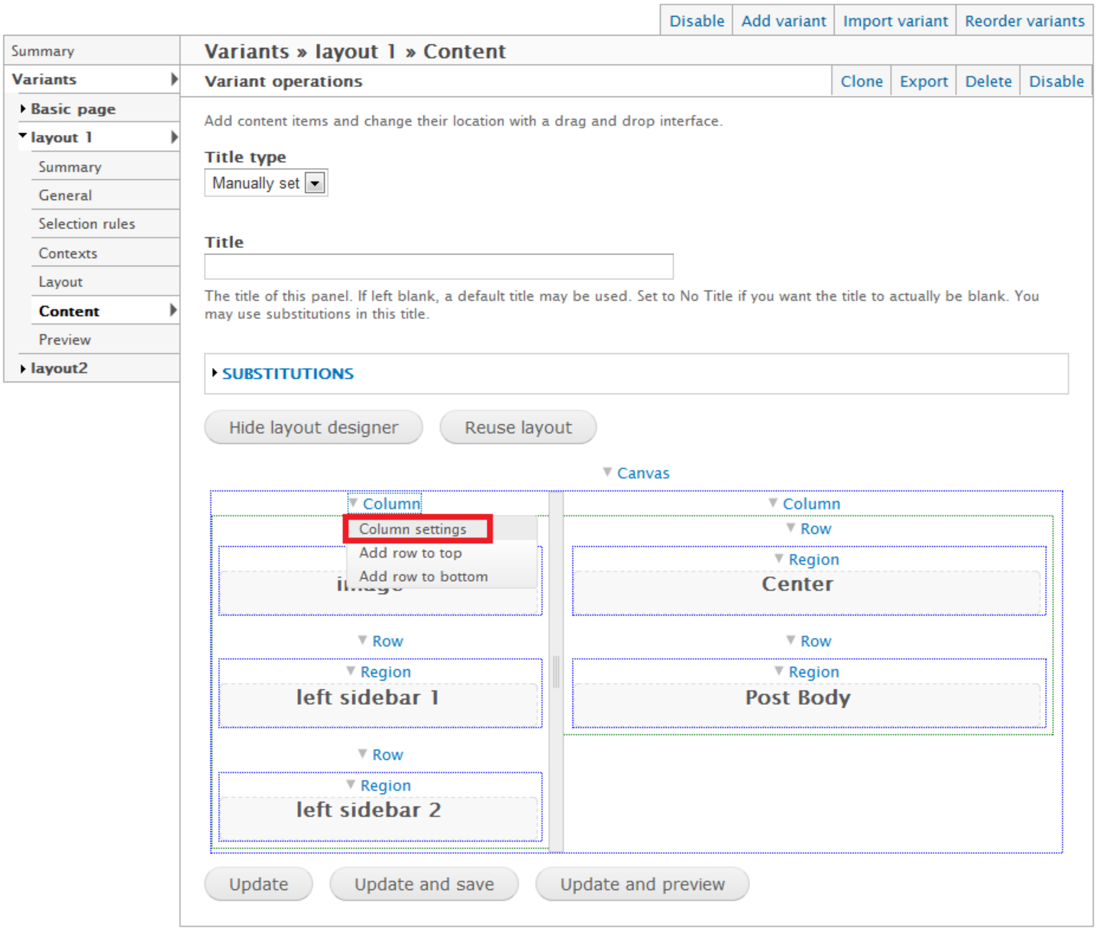
```
div.gradient338wide {
    background: url("/
/boxGradientTop338.jpg
center top transparent
}
div.gradient338wide {
    margin-top: 20px;
}
body, div, dl, dt, dd,
```

b. To add class to left column in panels, Click on “Edit panel” form learn page

c. Layout1 -> Content

d. Click Show layout designer

e. Click on left “Column” and click on “Column settings”



Variants » layout 1 » Content

Variant operations

Add content items and change their location with a drag and drop interface.

Title type: Manually set

Title

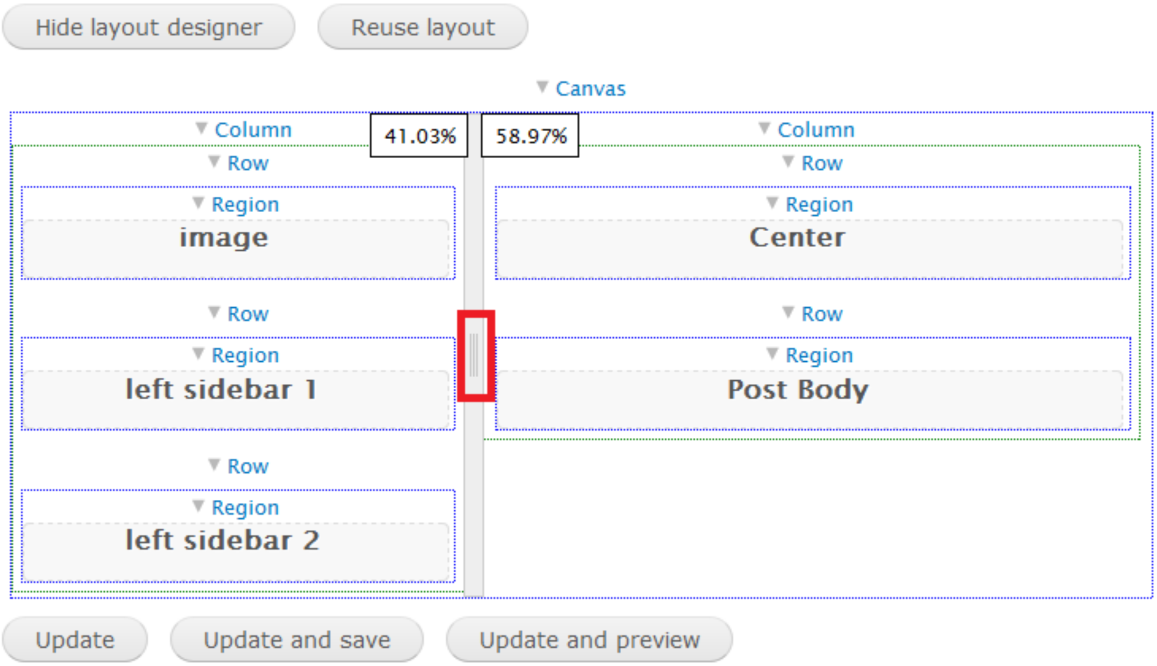
The title of this panel. If left blank, a default title may be used. Set to No Title if you want the title to actually be blank. You may use substitutions in this title.

f. A pop-up box will ask for css class for this column, type in “info_col1” this will allow you to style this column elements only.

g. You can add class to any row or region too, the same way.

h. To make adjustments to all sections of the canvas click on “Canvas” -> Canvas settings. Here you can add class that will be added to each column, or row, or region. You can also do other adjustments like padding between columns, rows, and regions.

i. Also, you can change the width of columns by simply clicking on the bar between columns and dragging it to the right or left.



11. Now, we are done with creating the content layout with panels.