

Sitecore Is an Experience Platform

Sitecore combines content management with a marketing platform

- Design and populate a website
- Tailor the experience to individual visitors

What does Sitecore offer marketers?

- Inline page design and population
- Personalization and multivariate testing
- Cross-channel communication
- Integration with external tools and databases
- Rich reporting on *individual visitors*

Cross-Channel Communication

Offering a consistent, individual experience regardless of how visitors interact with your content





The Developer's Role

Who are you?

- Professional ASP.NET developers
- Passionate about supporting business goals

What are your responsibilities?

- Build and scale according to recommended practices
- Support Sitecore's marketing and analytics features
- Build for the Experience Editor
- "Don't fight the framework!"

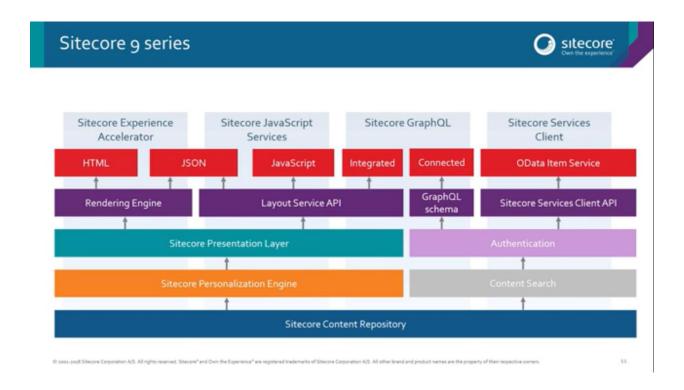
This course will get you there!

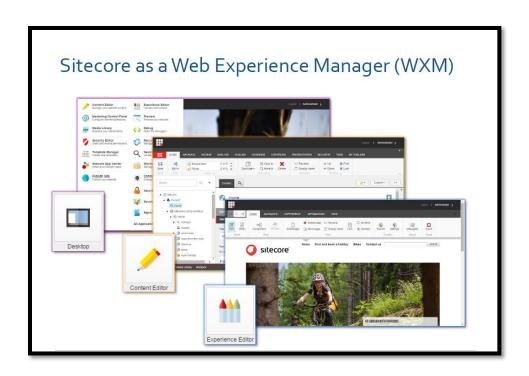


Where Can I Find More Information?

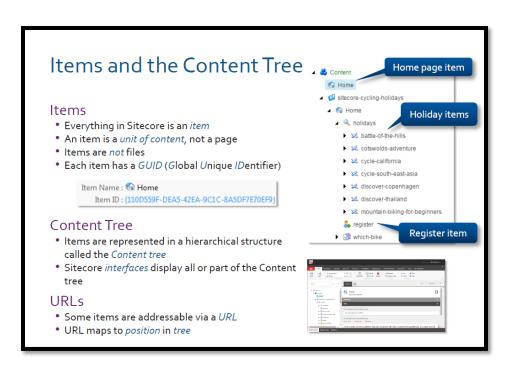
- SDN: http://sdn.Sitecore.net
- Knowledge Base: https://kb.Sitecore.net
- Marketplace: https://marketplace.Sitecore.net
- SitecoreXP: https://dev.Sitecore.net
- SitecoreXP Documents: https://doc.Sitecore.net

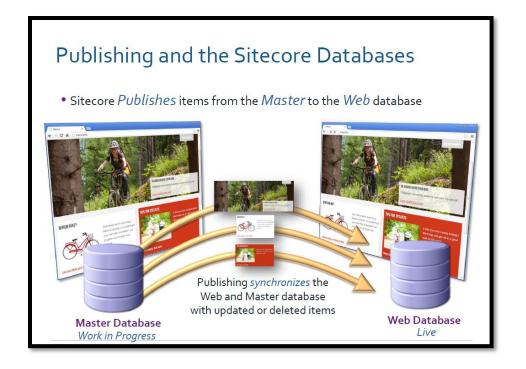
Sitecore Architecture





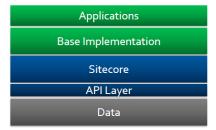






Sitecore Architecture

Sitecore is an ASP.NET application



Sitecore is a framework for:

Content versioning, media library, design/editing interfaces, language versioning, presentation versioning, search API, adaptive design via devices, rich API, hierarchical data storage and much more!



Authors and developers have separate responsibilities

Authors...

 Mange content and presentation using your custom implementation of Sitecore

Developers...

• Define data structure and presentation components for authors





Pages are dynamically assembled on demand

What Gets Installed?

Databases

- Master authoring database, work in progress
- Web published, live content
- Core settings and membership
- xDB MongoDB NoSQL collection. New starting with 7.5!
- Reporting replaces Analytics DB previous to version 7.5



Core











Reporting

Installation Scenarios – Recommended Minimum



Content Management server



Database server



Content Delivery server

Authoring environment

Previewing capabilities

- Access to master
- Access to web
- Access to core









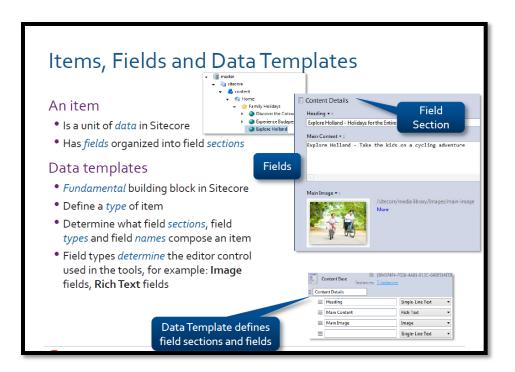
Live environment

No access to Sitecore client (*/sitecore)

- Access to web
- · Access to core



Sitecore 8 – Experience Database (xDB) and Experience Marketing



Deciding the Data Structure Architecture

Architecture inferred from designs, wireframes and static HTML

- Project should start with focus on *designing your data structure* (like SQL schema)
- Examine the content on the page and across all pages
- Is the structure of content repeated on multiple pages?
- Recommended Practice: Use a Sitecore Partner for your first project

What data architecture can you infer from the designs below?

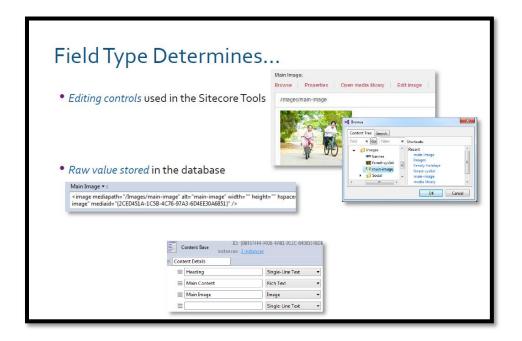


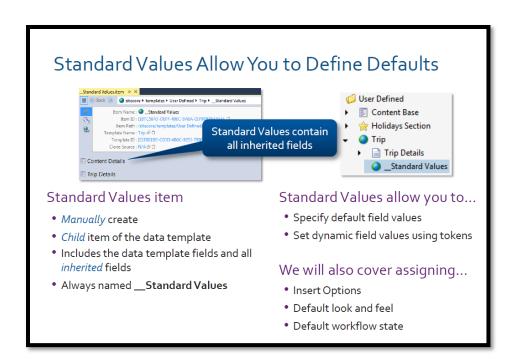
Building Data Templates

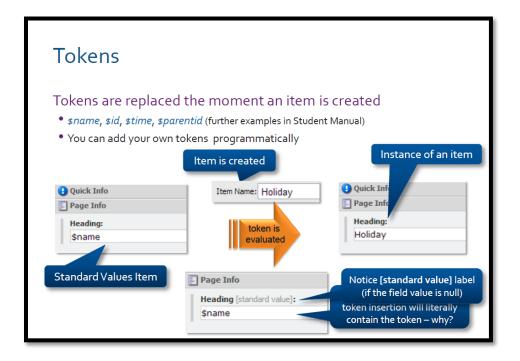
Start by building data templates

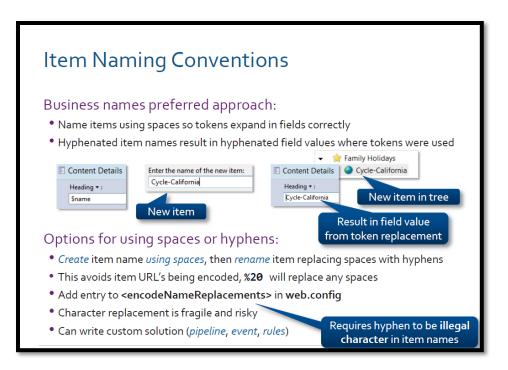
- After your thorough data analysis, begin by building base templates
- Include Fields and Field Sections that can be reused
- In our project, Content Base will become the base template for our future templates
- The easiest way to create data templates is using Sitecore Rocks

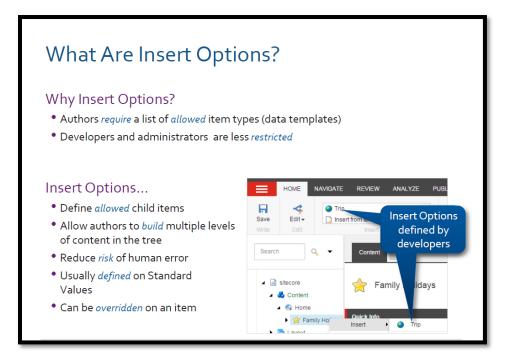












Key Vocabulary

Data Template

Defines an item's type. Contains field sections and fields. Should always have a unique icon. Used to create items.

Field

Holds content. Can be different types: Single-Line Text, Rich Text, Image, General Link and more. Type determines the interface that the author sees for editing that field

Data Template Inheritance

Data templates can inherit fields and field sections from other data templates. Reduces duplication.

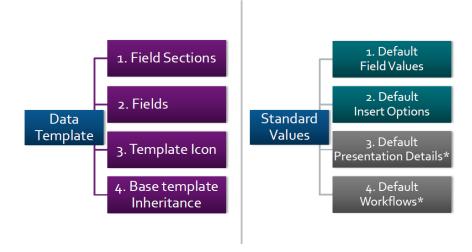
Standard Values

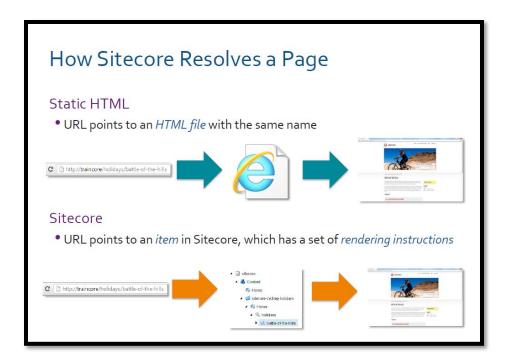
 $_$ Standard Values is a child item of a data template and is the mechanism for defaults when items are created.

Insert Options

List of item types that can be inserted by authors as a child of a particular item.

Data Template vs. Standard Values



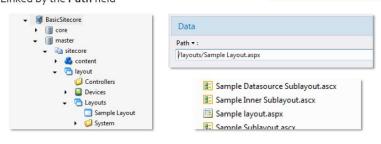


What Is a Layout?

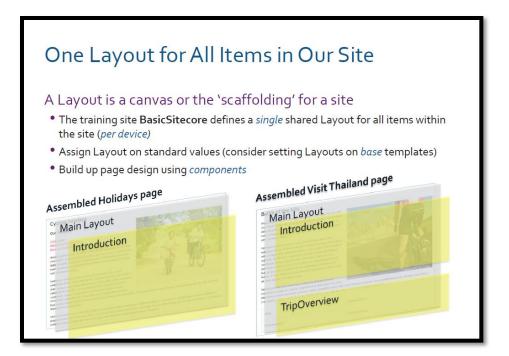
A Layout is...

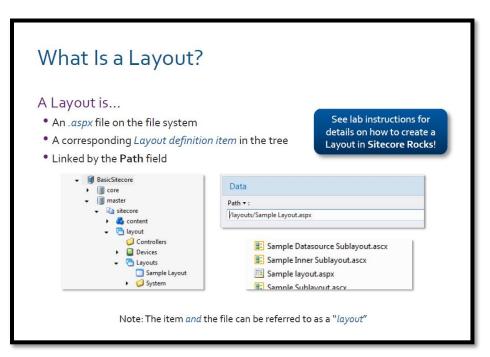
- An .aspx file on the file system
- A corresponding Layout definition item in the tree
- Linked by the Path field

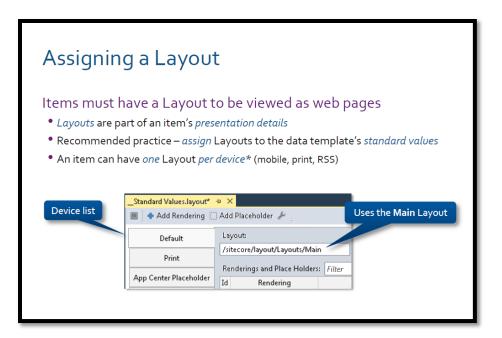
See lab instructions for details on how to create a Layout in Sitecore Rocks!

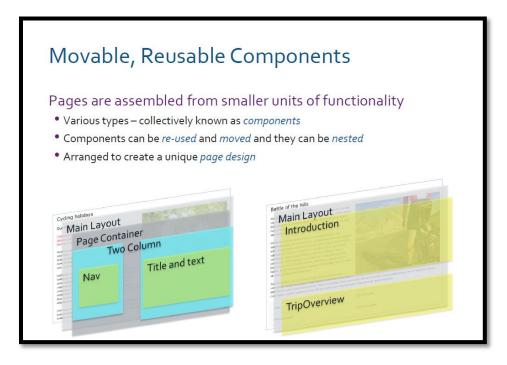


Note: The item and the file can be referred to as a "layout"









What Is a Component?

A component can be a...

- Sublayout (Sitecore's wrapper for a Web User Control)
- XSLT Rendering
- Sitecore Web Control

There are *Sitecore MVC* alternatives – *see videos*!

We will use the term component

All components consist of...

Definition item in Sitecore: File on the file system:

/sitecore/Layout/Sublayouts .ascx (Sublayout) /sitecore/Layout/Renderings .xslt (XSLT rendering)

Linked by a Path field on definition item

What Are Placeholders?

- Placeholders are Sitecore controls used in Layouts and Sublayouts
- o Define where components can dynamically be bound to an area of a page
- o Can be added anywhere in the markup of Layouts or Sublayouts
- Identified by an attribute called Key (the ID attribute is not required)
- The Placeholder is added directly in the markup:

<sc:Placeholder Key="gallerycontainer" runat="server" />



Lowercase Keys are recommended, easier to distinguish vs component names in Experience Editor

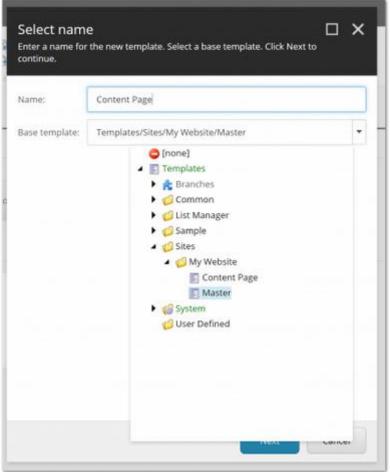
(Module 7 covers Placeholder Settings items, which are required by Experience Editor)

How To Create A Template For A Content Page In Sitecore

This is the third post in the 'Creating Your First Sitecore Page' series. In the last article, How To Create A Master Data Template In Sitecore, we created a master template. The purpose of the master template is to define a schema for all the common properties that exists on all of our web pages. The page title is one such example. With our 'master' template created, we will now create a template for a standard content page.

Creating Your First Sitecore Page Template

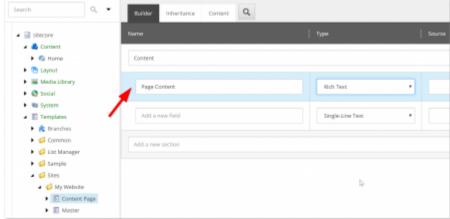
To create our content page, we need to create a new data template. Content page templates are pretty basic, a usual content page obviously needs all the standard page template settings, so it will need to inherit from the master template. It will also need a way for content editors to



add rich-text onto a page.

In the

'templates' area within the Sitecore content tree, create a new template within a folder (I recommend creating a folder under templates, called your host). When you create the new template, you will obvious need to give it a name. You will also need to set the 'base' template to the master template we created in the last

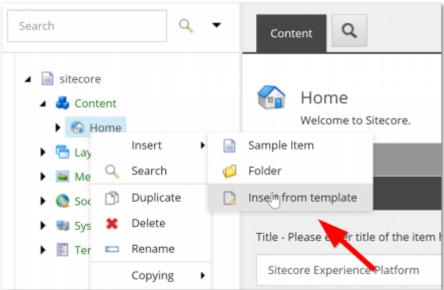


article. The only real thing

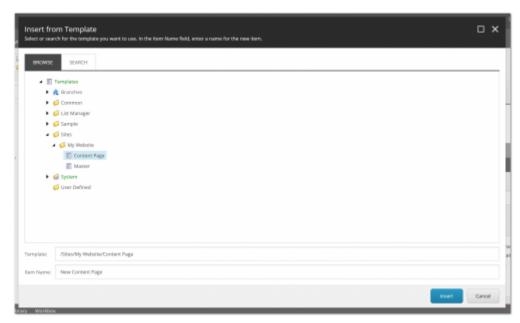
you'll need in your content page template is a 'Content' section and a 'page content' property that allows 'rich-text' to be entered. Now we have a very basic master and page template set-up, we can create a content page.

How To Create A Page With A Data Template

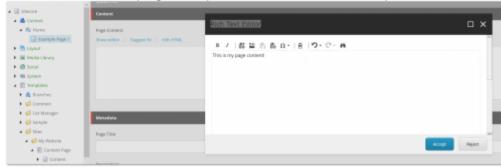
To finish off this article, I'll quickly run through how to create a page using our data template. In the Sitecore content tree, you should see a 'Content' item. This is the area where all your websites web pages will live.



If you right click on the 'home' item and select 'Insert' -> 'Insert from template'. You'll be presented with the template picker:



Select the 'content page' template, from within the templates section.



Now you can create your content page. As you can see above, the page content property loads the rich-text editor. In here, content editors can add and format text that we can later render out in a layout.

Metadata
Page Title:
Description:
Settings
Display On Sitemap

In the content page, we also have our common global properties that are inherited from the master template. As I'm hoping you can see, this template inheritance is pretty simple to implement but gives you a lot of power. You might not split your templates up as efficiently as possible on your first project, but, after a few sites, you'll be a pro. We still have quite a lot to do before we can display our page on our website. In the next lesson, I'll cover layouts. The layout file is where we talk about HTML. The layout file is where we define how our site looks and what data should be displayed to the end user.

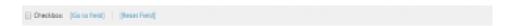
Mostly used fields Types in Sitecore

The Simple field types represent and individual value. An individual value may have multiple properties, such as the attributes in an Image field or the images and links in a Rich Text field. Sitecore provides the Simple field types described in the following sections.

Checkbox

This field type displays a toggle button. If the user selects the checkbox, Sitecore stores the value 1 (the number one). If the user does not select the checkbox, Sitecore stores a blank value.

Tip Check for the literal value 1 in a checkbox field, or use a property such as Sitecore.Data.Fields.CheckboxField.Checked. Do not compare the value of a Checkbox field against NULL, String.Empty, 0 (the number zero), or any value other than 1.



Date and Datetime

The Date field type providers a user interface allowing a user interface to select or enter a date using manually. The Datetime field type adds a user interface to select or enter a time manually. Sitecore stores the content as a text string with the format yyyymmddThhmmss. If the user does not enter a time, Sitecore stores the value 000000 (midnight). The value stored represents local time for the Web server.



Image

The Image field type allows the user to select an image from the media library and specify image properties. Users can click Open file to open the Media Browser and select the desired file from the media library. The Source property of an Image field controls the selected item in the Media Browser. For more information about the Source property, see the section File Field Type.



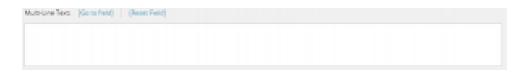
Integer

This field type store a single line of text. With a validation for integer values.



Multi-Line Text

Use the Multi-line field type for simple text values spanning multiple lines. This field has no validation and there is no Rich Text support for fields of this type.



Number

This field type store a single line of text. With a validation for number values.



Password

This field type store a single line of text. With a mask for password values.



Rich Text

This field type stores HTML text. The field displays the contents as a browser would display the source HTML, although the field actually stores character encoded HTML. The Show Editor button provides access to a Rich Text Editor, while the Edit Html button provides access to the stored HTML. For further information about Rich Text fields, see the Content Reference manual.



Single-Line Text

This field type store a single line of text.



Youtube videos links for Sitecore basics

- Raw Values in Sitecore https://www.youtube.com/watch?v=UE1LTrHrWOE
- Insert Options in Sitecore https://www.youtube.com/watch?v=358myfE40 E
- Standard Values in Sitecore https://www.youtube.com/watch?v=y w34Pfksb4
- Standard Values Tokens in Sitecore https://www.youtube.com/watch?v=GR7MiEaozl0
- Help Texts in Sitecore https://www.youtube.com/watch?v=dbow4buJa40
- Layout in Sitecore https://www.youtube.com/watch?v=aCE9LeKGtwo