

Building the Site's Data Infrastructure

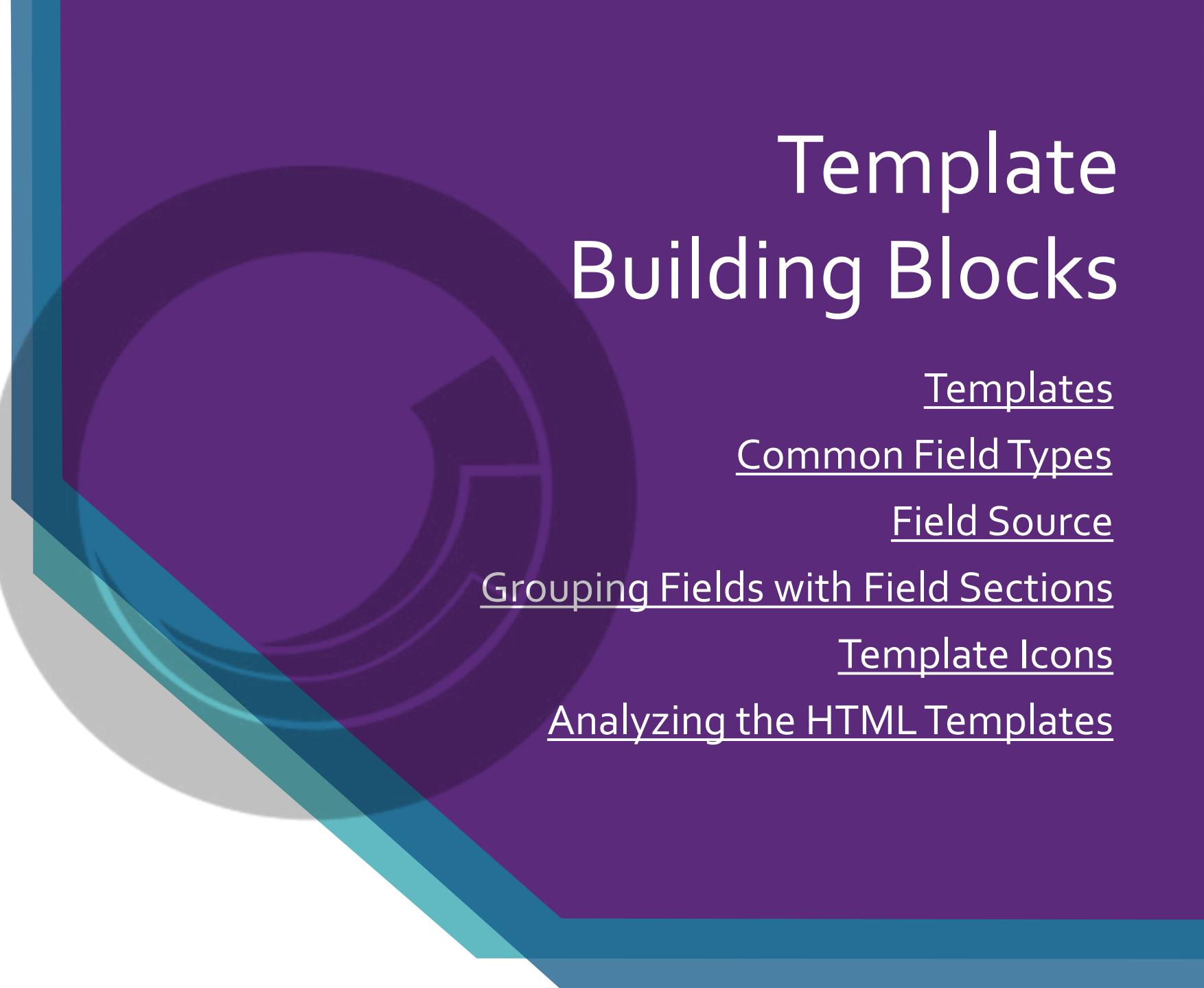


Module Objectives

By the end of this module, you will be able to:

- Describe the templates building blocks.
- Name the field types and their purpose.
- Give examples of how you use source fields.
- Identify when you need to use template inheritance.
- Apply template inheritance to new and existing templates.
- List what you should consider when you apply inheritance to templates.
- Describe the purpose of the Standard template.
- Use the Template Manager to build and configure a site infrastructure.
- State the importance of setting up icons on templates.





Template Building Blocks

[Templates](#)

[Common Field Types](#)

[Field Source](#)

[Grouping Fields with Field Sections](#)

[Template Icons](#)

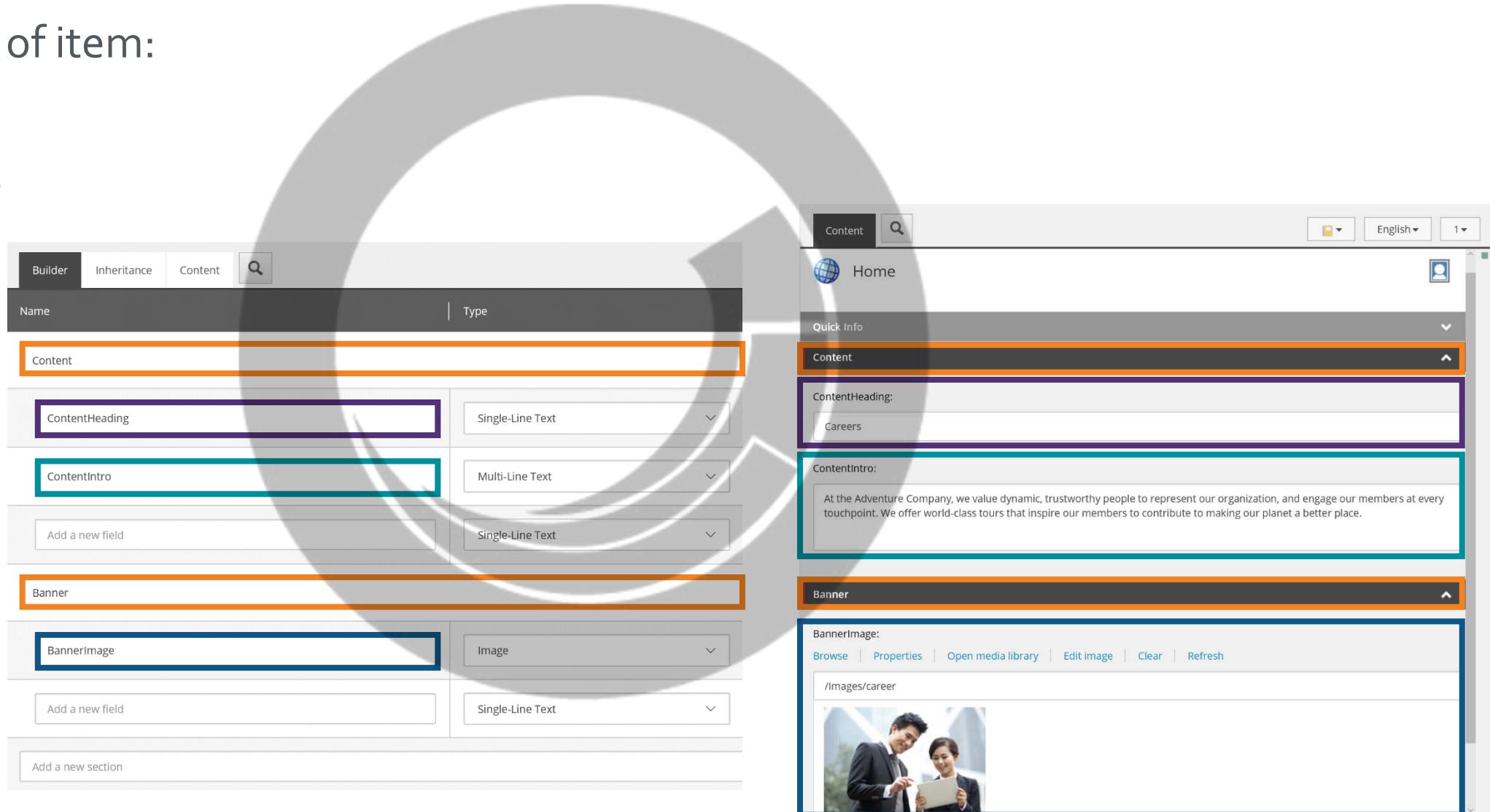
[Analyzing the HTML Templates](#)



Template Building Blocks

Defines type of item:

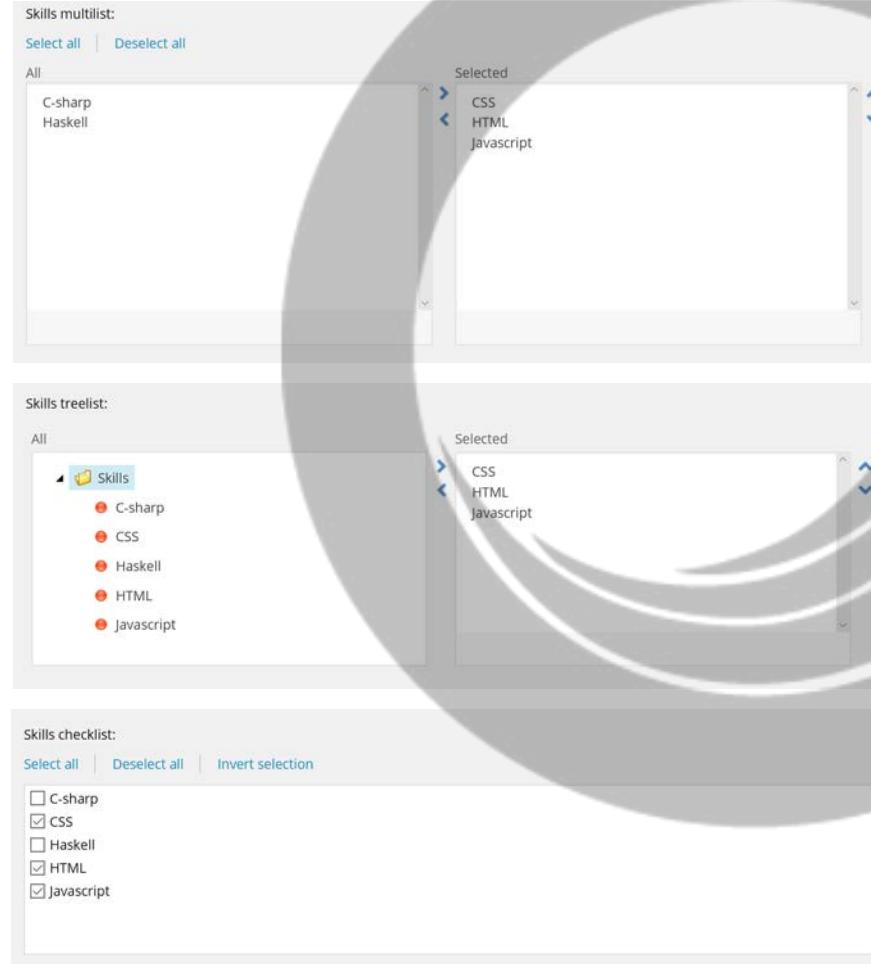
- Fields
- Field sections
- Icon



The diagram illustrates the Sitecore Template structure and its corresponding content representation. On the left, the 'Template Builder' interface shows a hierarchical template structure. The root node is 'Content', which contains sections for 'ContentHeading' (Single-Line Text), 'ContentIntro' (Multi-Line Text), and 'Banner'. The 'Banner' section contains a field 'BannerImage' (Image). On the right, the 'Content Editor' interface shows the resulting content item 'Home'. The 'Content' section contains the 'ContentHeading' ('Careers') and 'ContentIntro' ('At the Adventure Company, we value dynamic, trustworthy people to represent our organization, and engage our members at every touchpoint. We offer world-class tours that inspire our members to contribute to making our planet a better place.') fields. Below it, the 'Banner' section displays the 'BannerImage' field, showing a photograph of two people.

Link to multiple items:

- Multilist
- Treelist
- Checklist
- TreelistEx



The image displays three separate Sitecore field editors arranged vertically. Each editor has a title bar and a main content area.

- Skills multilist:** Shows a list of skills: C-sharp, Haskell. A sidebar on the right shows the selected items: CSS, HTML, Javascript.
- Skills treelist:** Shows a tree structure under the 'Skills' node: C-sharp, CSS, Haskell, HTML, Javascript. A sidebar on the right shows the selected items: CSS, HTML, Javascript.
- Skills checklist:** Shows a checklist with items: C-sharp, CSS, Haskell, HTML, Javascript. The 'CSS' and 'Javascript' checkboxes are checked.

Other:

- Date / Datetime
- Checkbox
- General Link Field



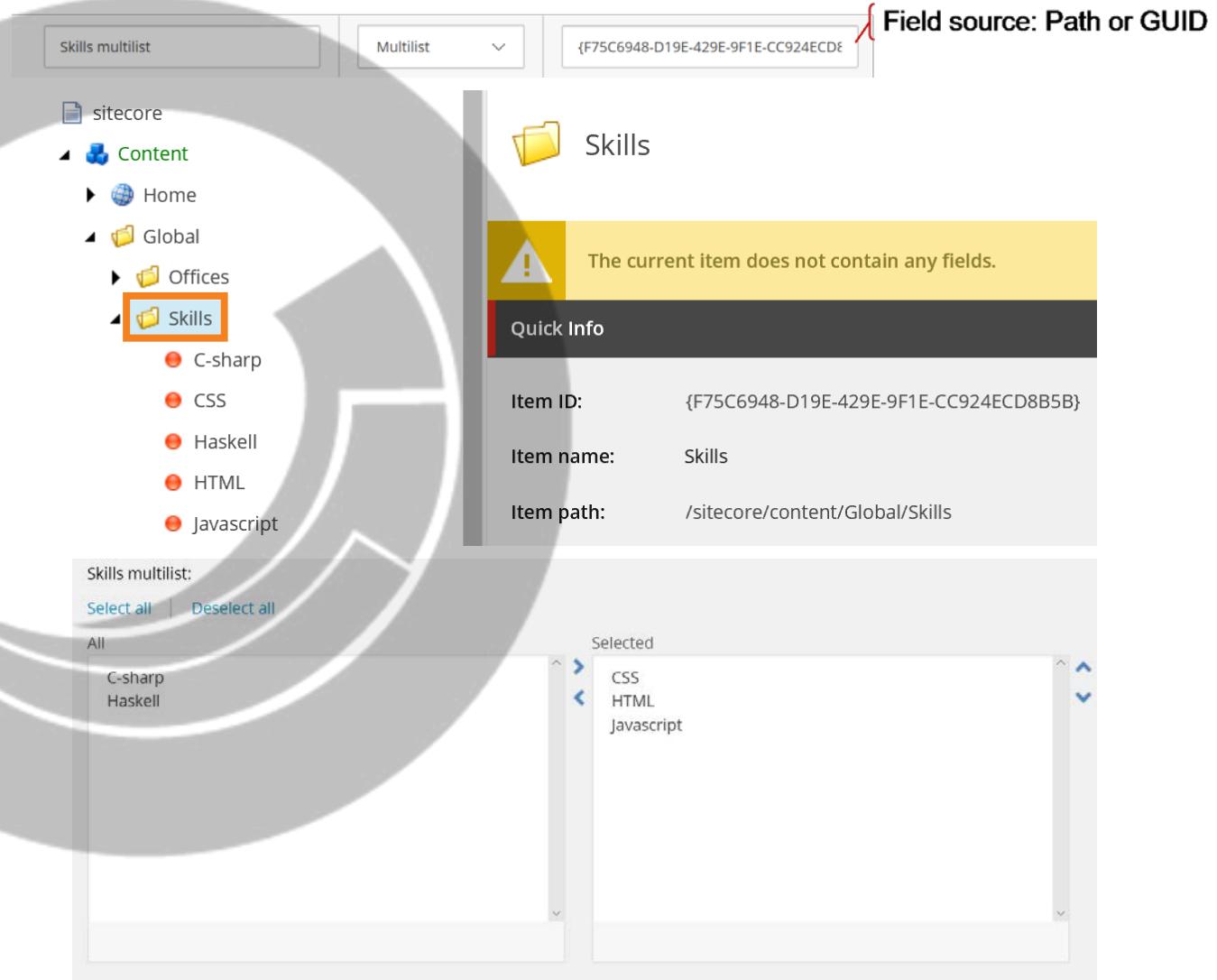
The image displays two Sitecore field editors.

- Deadline:** A date picker showing '8/24/2016'. Below it is a checkbox labeled 'Permanent employment' which is checked.
- Information email:** A rich text editor toolbar with buttons: Insert link, Insert media link, Insert external link, Insert anchor, Insert email, Insert JavaScript, Follow, Clear. Below the toolbar is a text input field containing the email address: mailto:apply@tac.org.uk?subject=Application%20for%20Web%20developer%20role

Link field types: define choices editor can select from

Image/File: browsing location in the media library

Rich Text: toolbar configuration for the Rich Text Editor



The screenshot shows the Sitecore Content Editor interface. At the top, there are three input fields: 'Skills multilist', 'Multilist', and a GUID '{F75C6948-D19E-429E-9F1E-CC924ECDE}'. A red bracket on the right side highlights the 'Field source: Path or GUID' section.

The left pane displays a tree view of the Sitecore content structure under 'Content'. The 'Skills' folder is selected and highlighted with a red box. The 'Skills' folder contains five items: C-sharp, CSS, Haskell, HTML, and Javascript.

The right pane shows the 'Skills' folder's 'Quick Info' panel. It includes the following information:

- Item ID: {F75C6948-D19E-429E-9F1E-CC924ECD8B5B}
- Item name: Skills
- Item path: /sitecore/content/Global/Skills

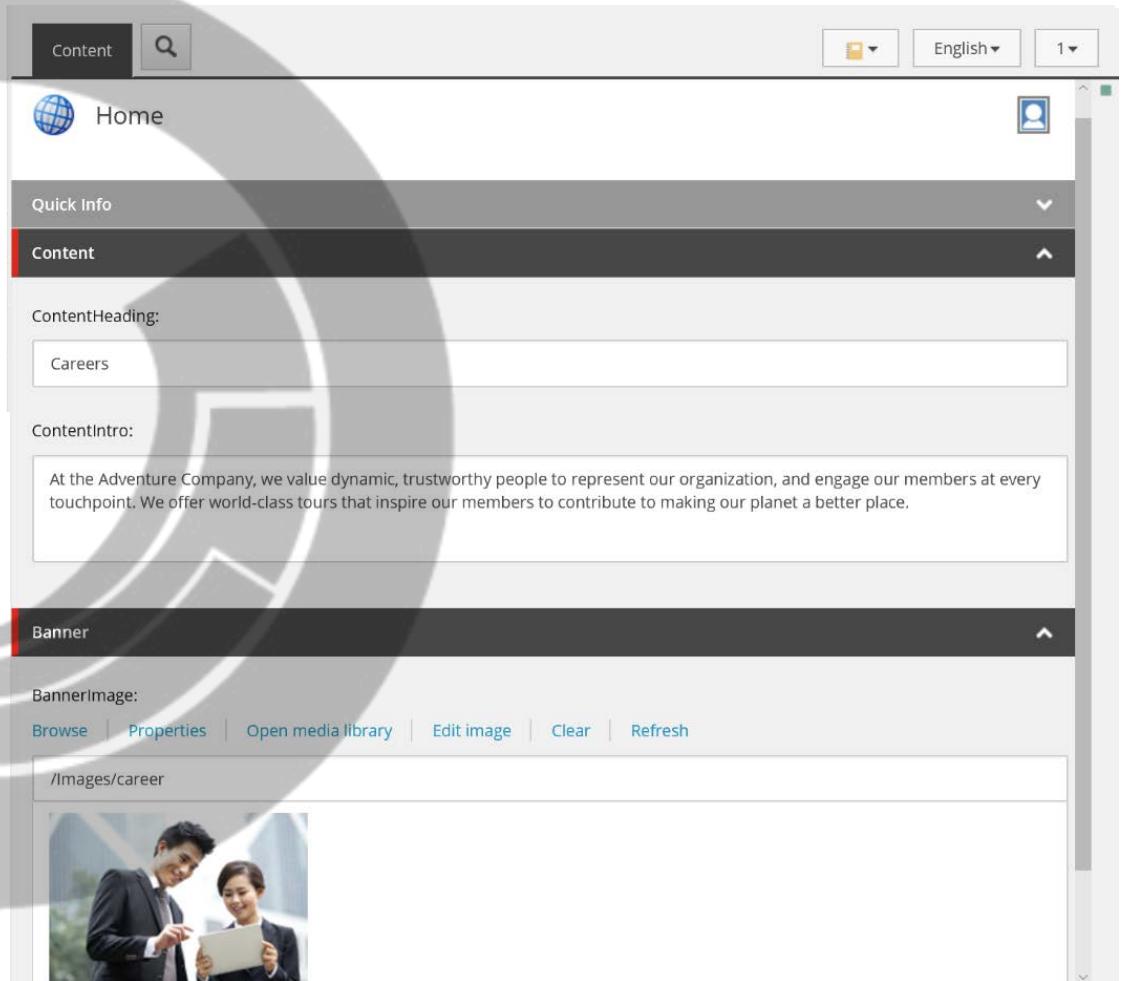
Below the 'Quick Info' panel, there is a 'Skills multilist' configuration section with 'Select all' and 'Deselect all' buttons. The 'All' list contains 'C-sharp' and 'Haskell', while the 'Selected' list contains 'CSS', 'HTML', and 'Javascript'.

Grouping Fields with Field Sections

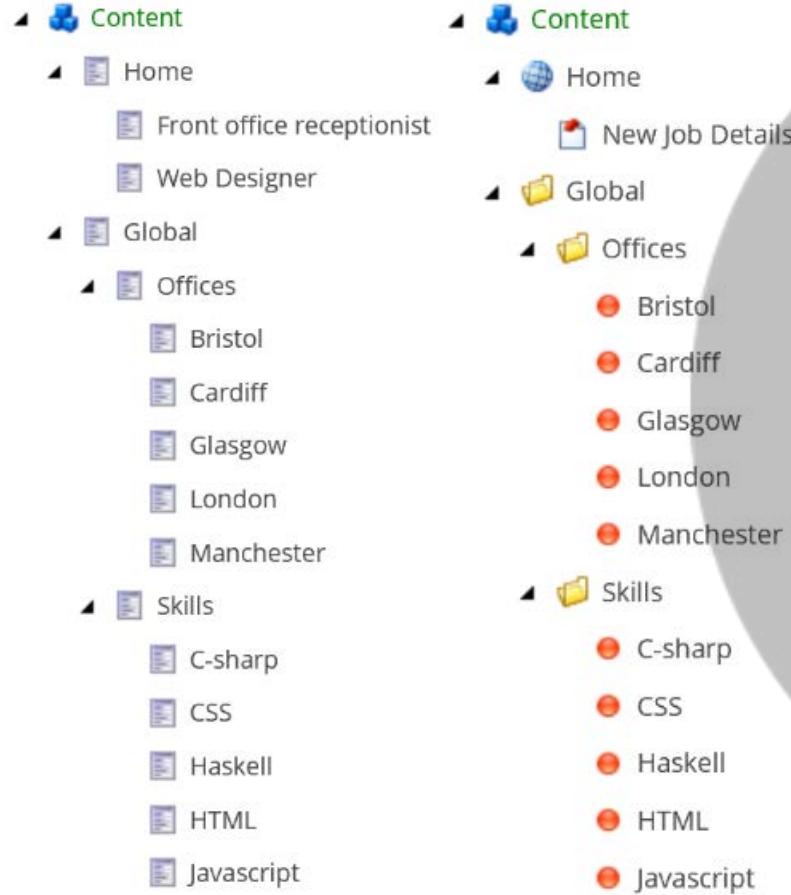
An organizational structure for business users.

Can be expanded or collapsed for easy navigation in Content Editor.

Not used by developers when coding.



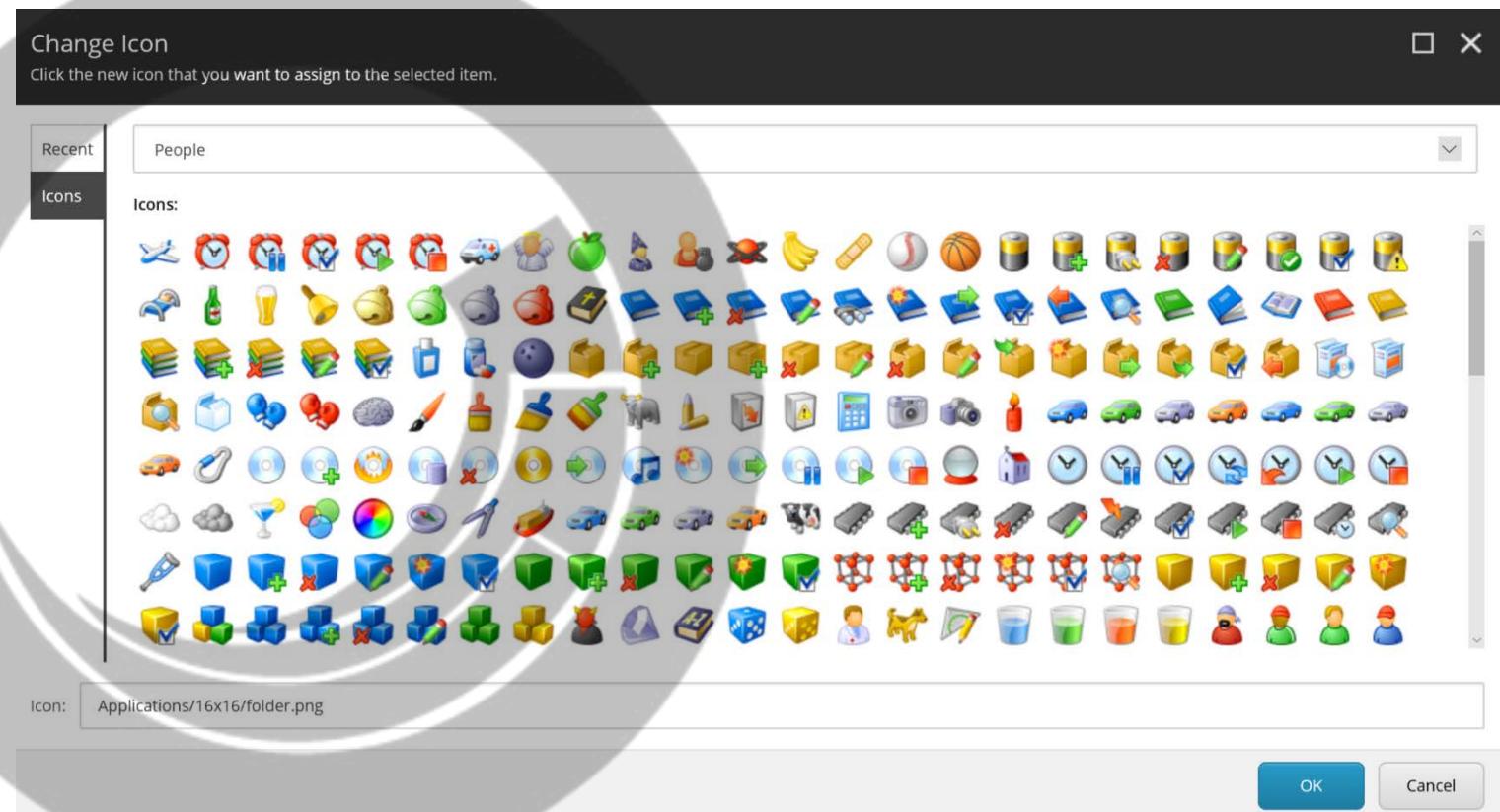
Template Icons



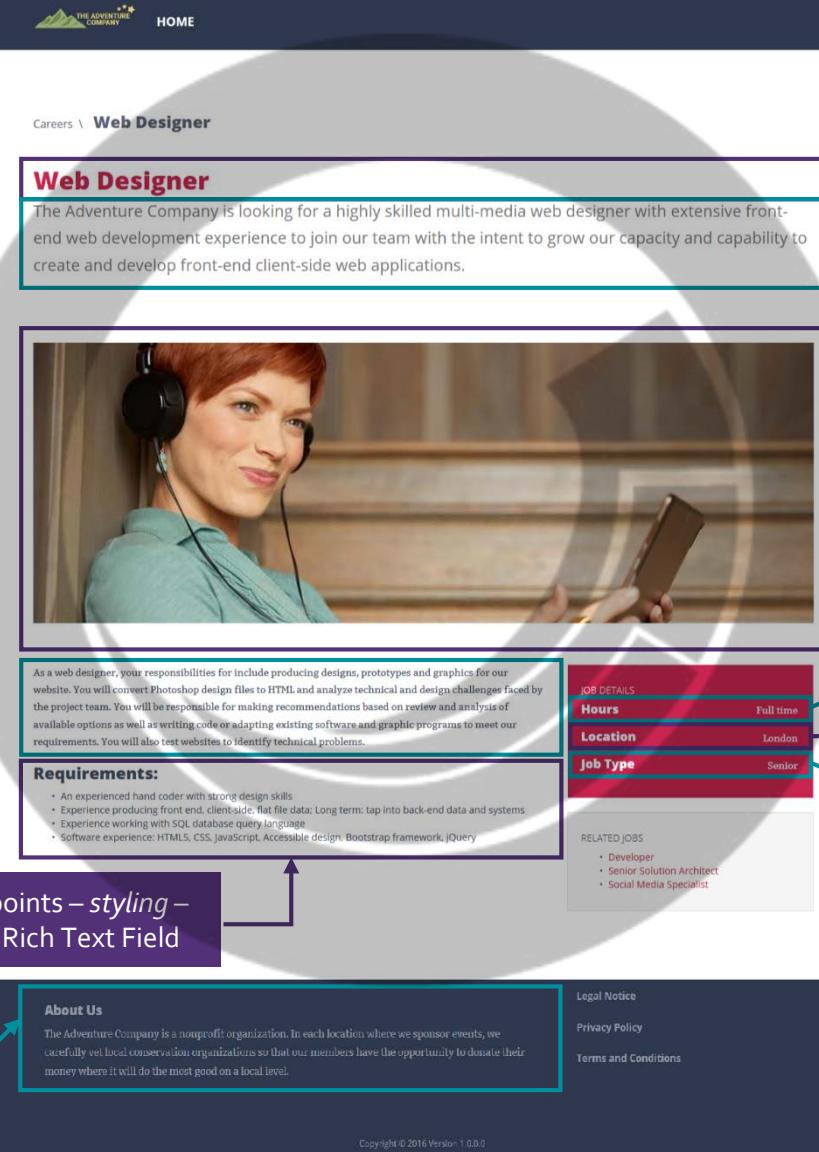
The image displays two side-by-side screenshots of the Sitecore Content Editor interface, illustrating the use of template icons.

Screenshot 1 (Left): Shows a tree view of content items under the "Content" node. The items include "Home" (with "Front office receptionist" and "Web Designer"), "Global" (with "Offices" containing "Bristol", "Cardiff", "Glasgow", "London", and "Manchester"), and "Skills" (with "C-sharp", "CSS", "Haskell", "HTML", and "Javascript"). Each item has a small blue folder icon next to its name.

Screenshot 2 (Right): Shows a tree view of content items under the "Content" node. The items include "Home" (with "New Job Details"), "Global" (with "Offices" containing "Bristol", "Cardiff", "Glasgow", "London", and "Manchester"), and "Skills" (with "C-sharp", "CSS", "Haskell", "HTML", and "Javascript"). The "Offices" item has a blue globe icon next to it.



Analyzing the HTML Templates



The screenshot shows a job listing for a "Web Designer" at "The Adventure Company". The page includes a header with a logo and "HOME" link, a breadcrumb trail ("Careers \ Web Designer"), and a main content area with sections for "Heading", "Intro", "Image", "Description", "Requirements", and "Job Details".

- Heading:** Web Designer
- Intro:** The Adventure Company is looking for a highly skilled multi-media web designer with extensive front-end web development experience to join our team with the intent to grow our capacity and capability to create and develop front-end client-side web applications.
- Image:** A woman wearing headphones and holding a smartphone.
- Description:** As a web designer, your responsibilities will include producing designs, prototypes and graphics for our website. You will convert Photoshop design files to HTML and analyze technical and design challenges faced by the project team. You will be responsible for making recommendations based on review and analysis of available options as well as writing code or adapting existing software and graphic programs to meet our requirements. You will also test websites to identify technical problems.
- Requirements:**
 - An experienced hand coder with strong design skills
 - Experience producing front end, client-side, flat file data: Long term: tap into back-end data and systems
 - Experience working with SQL database query language
 - Software experience: HTML5, CSS, JavaScript, Accessible design, Bootstrap framework, jQuery
- Job Details:**

Hours	Full time
Location	London
Job Type	Senior
- Related Jobs:** Developer, Senior Solution Architect, Social Media Specialist
- Footer:** Has bullet points – styling – will need a Rich Text Field
- Note:** If this footer text is common across all pages it does not relate to a Job Details page. It will be stored elsewhere.
- About Us:** The Adventure Company is a nonprofit organization. In each location where we sponsor events, we carefully vet local conservation organizations so that our members have the opportunity to donate their money where it will do the most good on a local level.
- Links:** Legal Notice, Privacy Policy, Terms and Conditions

Demo: Creating a Template

In this demo, you will learn how to create a template with Sitecore to define a schema of the data to store.

Lab: Creating Templates

In this lab, you will create some of the necessary templates to store the content for the site. You will start by creating a new folder where to store all your templates. You will then create a few templates.



Template Inheritance

Template Inheritance

Sitecore System Fields

Recommended Practices

Final Template Design



Template Inheritance

Template Inheritance



Site

Heading
Intro
Image

JobDetails

Heading
Intro
Image
Description
Requirements
Hours
Job Type
Location
Related Jobs

GenericPage

Heading
Intro
Description

Footer

Main Item
Copyright
Other Links

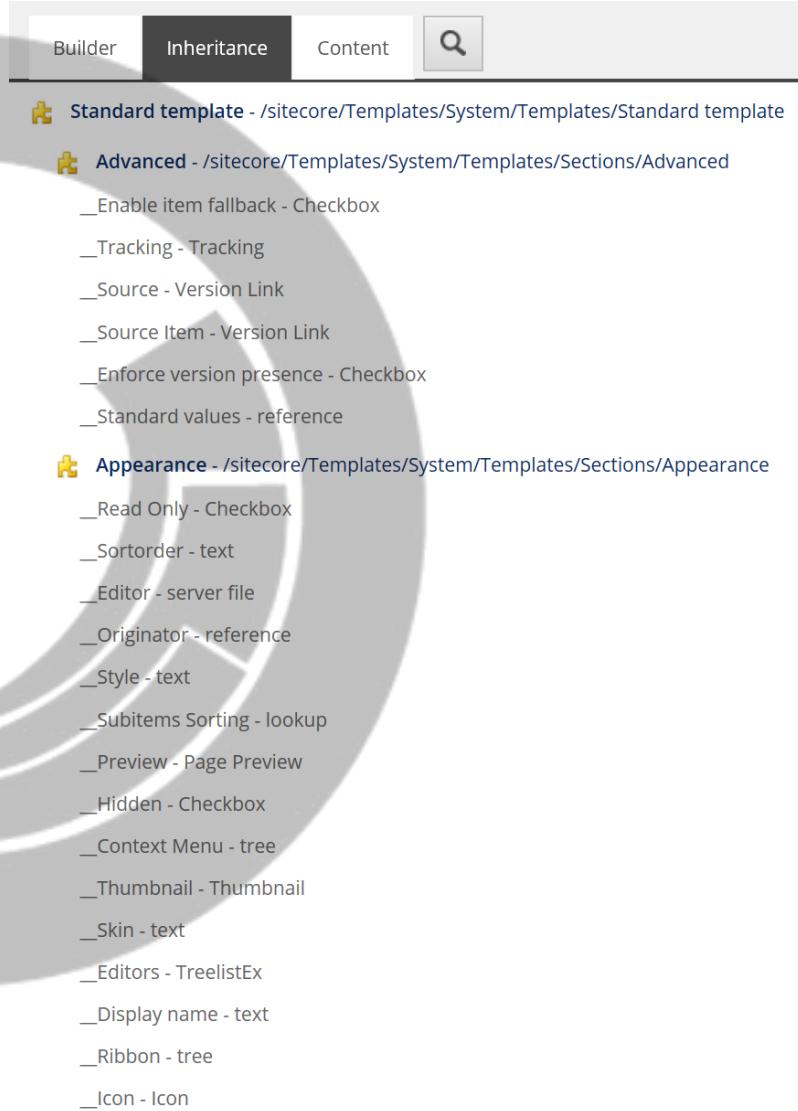
Duplication of fields = Harder to maintain

Solution: Template inheritance

All templates inherit from the Standard Template.

It defines the Standard Fields: system fields.

Normally hidden.



The screenshot shows the Sitecore 'Inheritance' interface. At the top, there are tabs: 'Builder' (disabled), 'Inheritance' (selected), and 'Content'. A search icon is also present. Below the tabs, the 'Standard template' is selected, with its path: /sitecore/Templates/System/Templates/Standard template. The template itself is expanded, showing two sections: 'Advanced' and 'Appearance'. The 'Advanced' section contains fields like '_Enable item fallback - Checkbox', '_Tracking - Tracking', and '_Source - Version Link'. The 'Appearance' section contains fields like '_Read Only - Checkbox', '_Sortorder - text', and '_Editor - server file'. All fields are preceded by a small yellow gear icon.

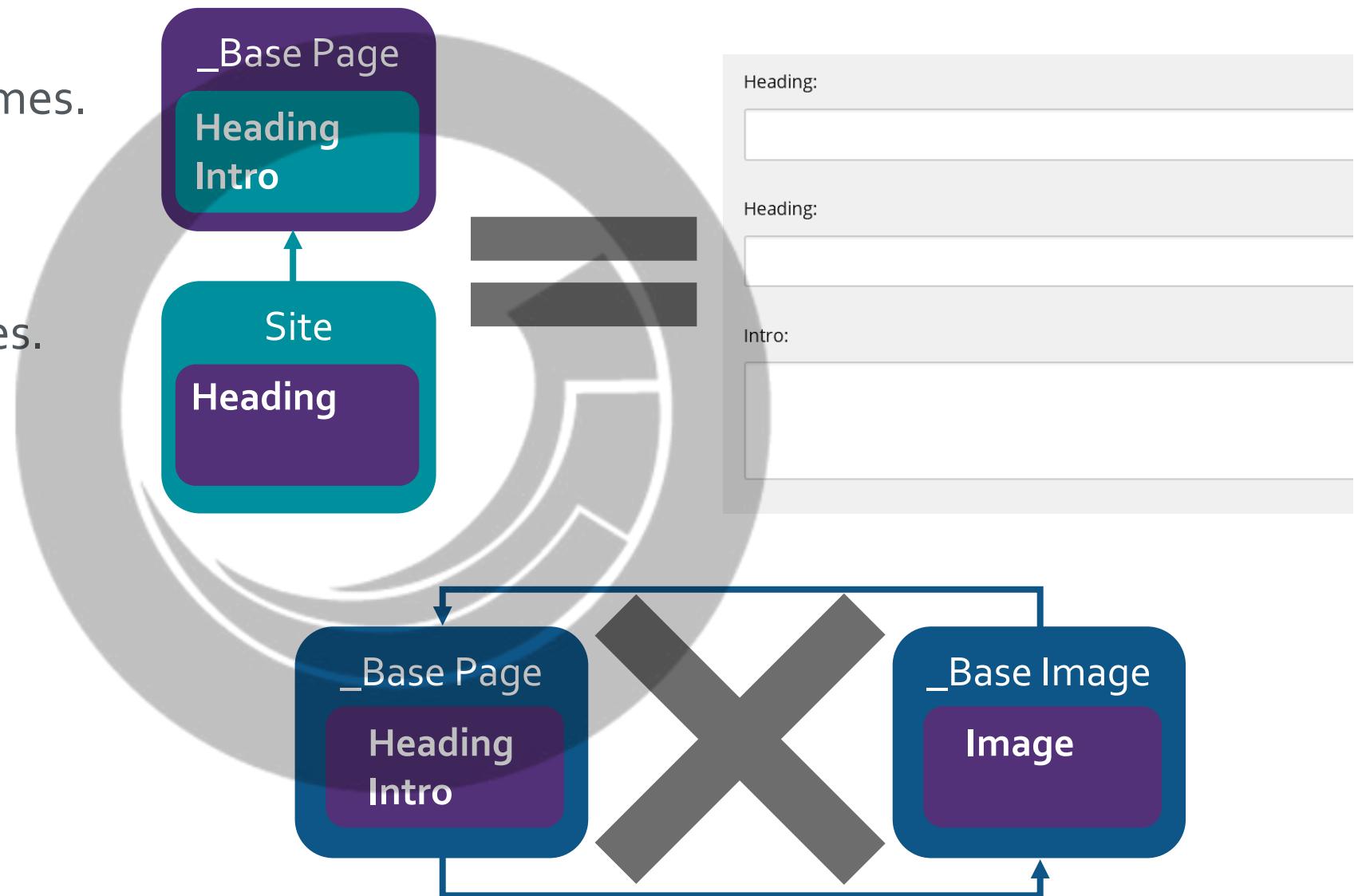
Avoid repeating field names.

Do not create cyclic
inheritance references.

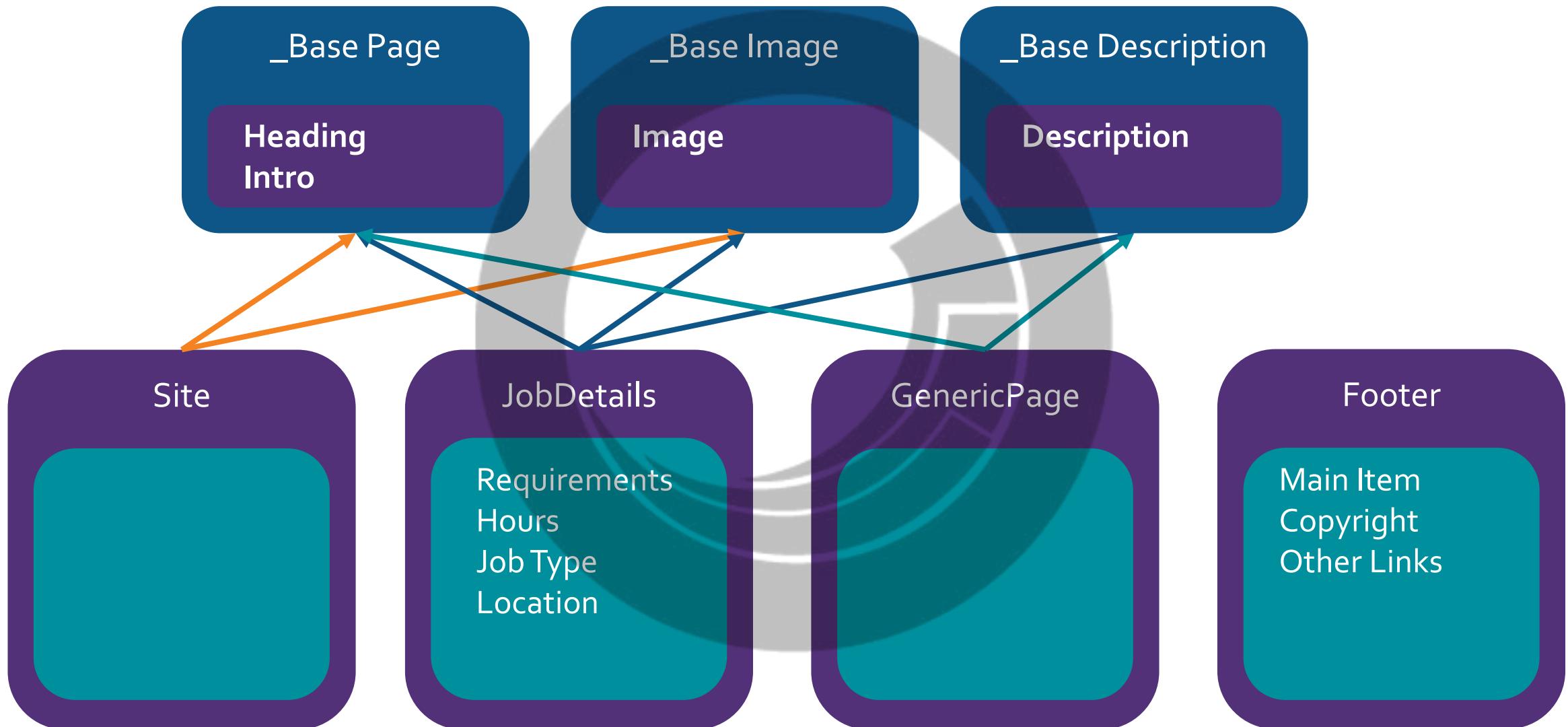
Use editor-friendly names.

Work with conventions.

Don't forget to set icons!



Final Template Design



Demo: Creating Template Inheritance

In this demo, you will learn how to make a template inherit from another and check which fields it is inheriting.

Lab: Clean Our Templates

Now that you know about template inheritance, you need to clean up your template design to avoid redundant fields.

Q What should you define in a template?

Q What field type would you use to store formatted HTML?

Q What is the name of the template all templates should inherit from?

Q Why should you avoid defining the same field multiple times in more than one template?

Q What happens if you use the same field name in a template that is already used in a parent template?

Q What would you use the Field source for in the following field types: Image, Rich Text Field, Droplink?

We have just learned the basics of the templates, including:

- The building blocks of templates.
- The inheritance model of templates.
- Using the Template Manager.

