Building HubSpot CMS Modules
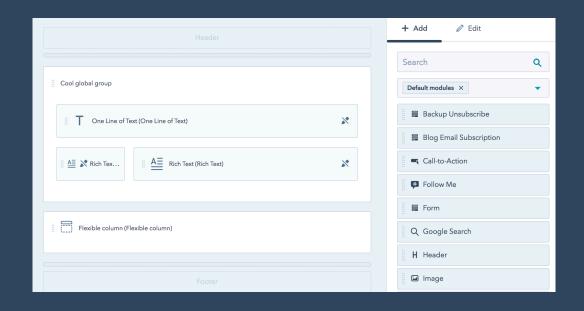
HubSpot Academy

WHY BUILD CUSTOM MODULES?

Modules and groups create page layout.

Default modules are fundamental components of the CMS, but most developers will eventually want to build their own as well.
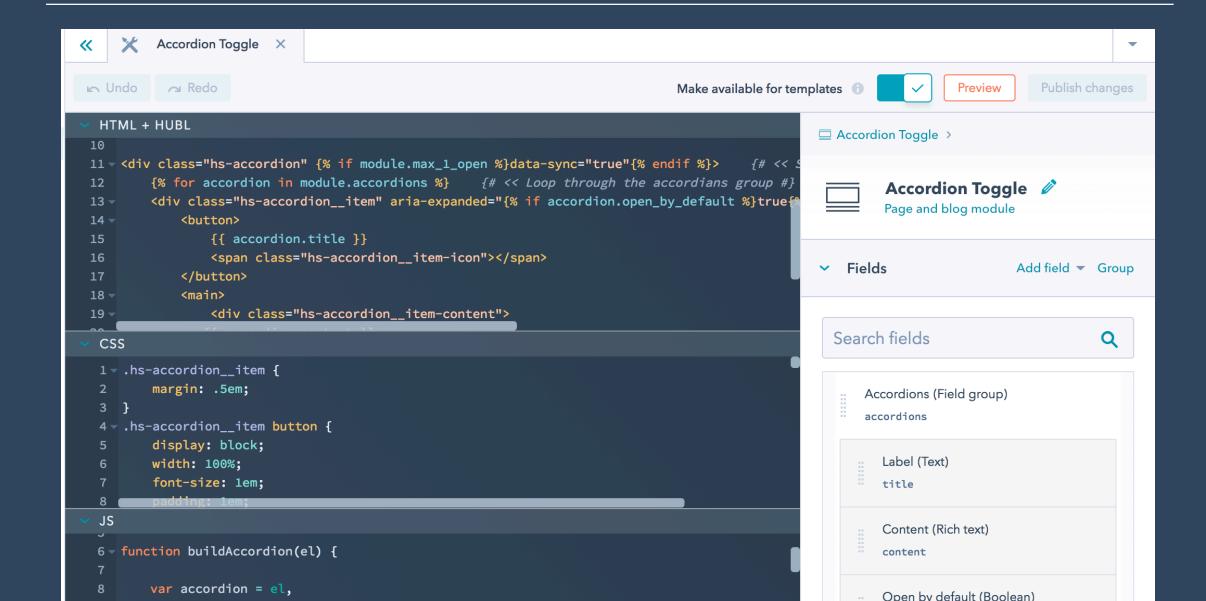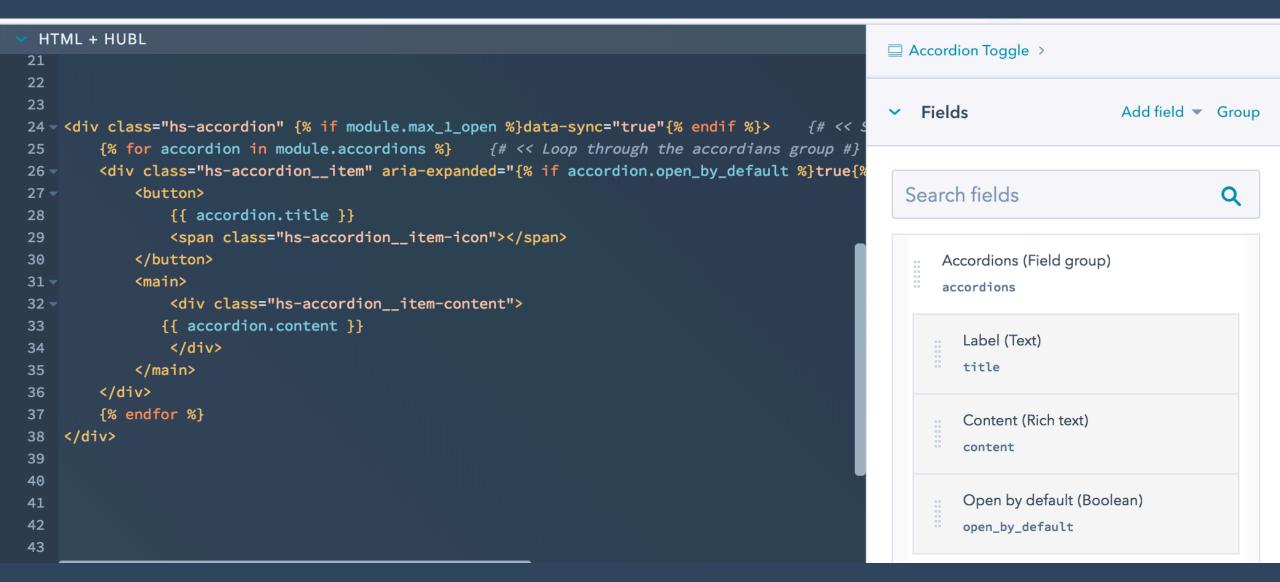
Why build your own module?

- Complex solutions

- Custom solutions

- Best practice

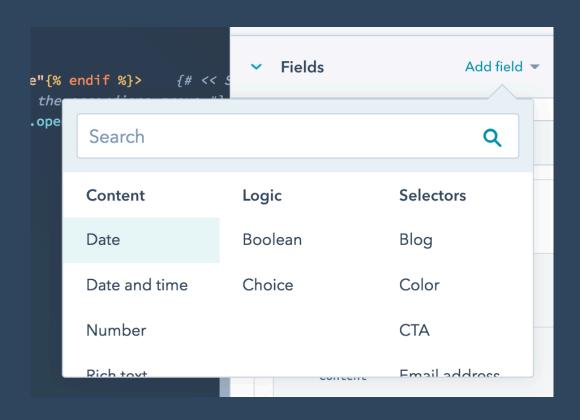# MODULES ARE CONSISTENT AND PORTABLE.

HOW TO BUILD A MODULE IN THE HUBSPOT CMS
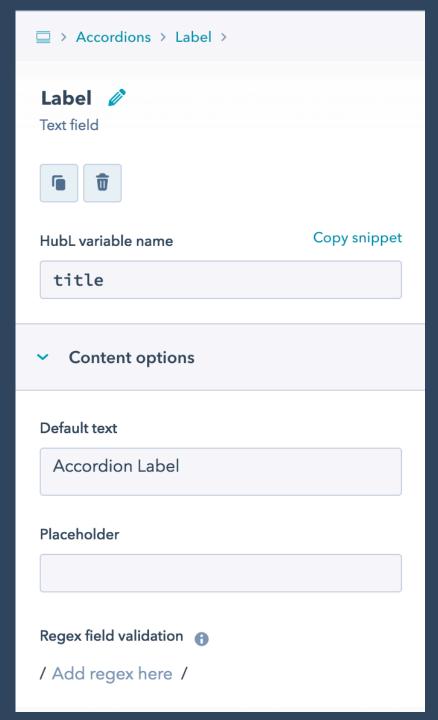
Module editor

```
21
22
23
24  <div class="hs-accordion" {% if module.max_1_open %}data-sync="true"{% endif %}>    {# << S
25      {% for accordion in module.accordions %}      {# << Loop through the accordians group #}
26      <div class="hs-accordion__item" aria-expanded="{% if accordion.open_by_default %}true{%
27          <button>
28              {{ accordion.title }}
29              <span class="hs-accordion__item-icon"></span>
30          </button>
31          <main>
32              <div class="hs-accordion__item-content">
33              {{ accordion.content }}
34              </div>
35          </main>
36      </div>
37      {% endfor %}
38  </div>
39
40
41
42
43
```

🖥 Accordion Toggle ›

⌄ Fields   Add field ▾   Group

Search fields   🔍

Accordions (Field group)
accordions

Label (Text)
title

Content (Rich text)
content

Open by default (Boolean)
open_by_default

HTML + HUBL window and *Fields*

Each field has options.

They provide granular control over how content editors interact with your module.

HUBL

HubL is HubSpot's templating language.

Fields are added to the module markup with HubL.
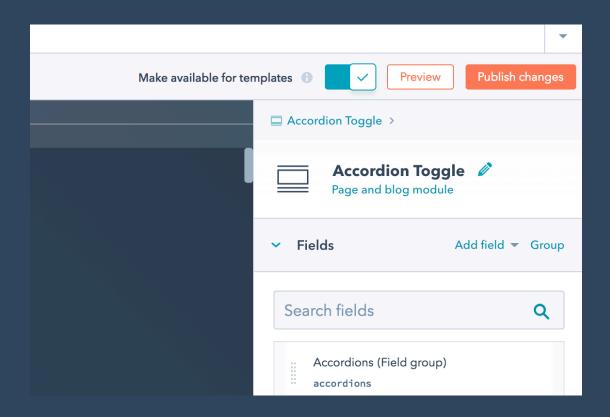
```
> HTML + HUBL
∨ CSS
 1  .hs-accordion__item {
 2      margin: .5em;
 3  }
 4  .hs-accordion__item button {
 5      display: block;
 6      width: 100%;
 7      font-size: 1em;
 8      padding: 1em;
 9      cursor: pointer;
10      border: 0 none;
11      border-bottom: 1px solid #ddd;
12      border-radius: 0;
13      background-color: transparent;
14      -webkit-appearance: none;
15      color: #444;
∨ JS
 6  function buildAccordion(el) {
 7
 8      var accordion = el,
 9          accordionItems = accordion.children,
10          oneAtTime = accordion.getAttribute('data-sync'),
11          hideAllItems = function(ex) {
12              /* Loop through all items and hide them */
13              Array.prototype.forEach.call(accordionItems, function(el, i){
14                  if (el != ex) {
15                      el.setAttribute('aria-expanded', 'false')
16                  }
17              });
18          },
```

CSS and JavaScript

You can make your module as specific or as abstract as you'd like.

HUBL CANNOT BE ADDED
TO THE CSS OR JS WINDOWS.

Publish your module with **Publish changes.**

Use the **Make available for templates** switch to toggle module availability in templates.