

Subtyping Unleased!

Speaker: Rocky Burt

Rocky Burt

ServerZen Software

<http://www.serverzen.com>

- Narrow classification
- Functionality hook

Why Subtype?

- Many possible faces for an existing content type
- Simple conversion
- Delayed specification

- Need different content identity depending on situation
- Need some way to transform identity based on event reaction

- Minimal framework
- Hooks up subtypes into content menu

An Example:

Setting up p4a.subtyper

```
easy_install p4a.subtyper
```

An Example: Creating New Package

p4a.subtyperdemo

Example source at:

<http://www.plone4artists.org>

[/svn/projects/p4a.subtyperdemo/](http://www.plone4artists.org/svn/projects/p4a.subtyperdemo/)

Sub-type Marker Interface

- New module named `interfaces`
- New interface named `IUltraDoc`

Sub-type Marker Interface

```
class IUltraDoc(interface.Interface):  
    """A new ultra document subtype."""  
  
interface.alsoProvides(IUltraDoc,  
                       IContentType)
```

An Example: Sub-type Descriptor

- New module named
`descriptors`
- New descriptor named
`UltraDocDescriptor`

An Example: Sub-type Descriptor

```
class UltraDocDescriptor(object):  
    implements(IPortalTypedDescriptor)  
    title = u'Ultra Doc'  
    description = u'New ultra style '\  
                  u'document.'  
    type_interface = IUltraDoc  
    for_portal_type = 'Document'
```

- New template called ultradoc.pt

An Example: New View

```
<div metal:fill-slot="main">  
<h2>This is an ultradoc!</h2>  
<h3 tal:content="context/Title"></h3>  
<p  
tal:content="context/Description"></p>  
</div>
```

Tying Together – ZCML

- Register descriptor as utility
- Hook new view up applying to marker interface

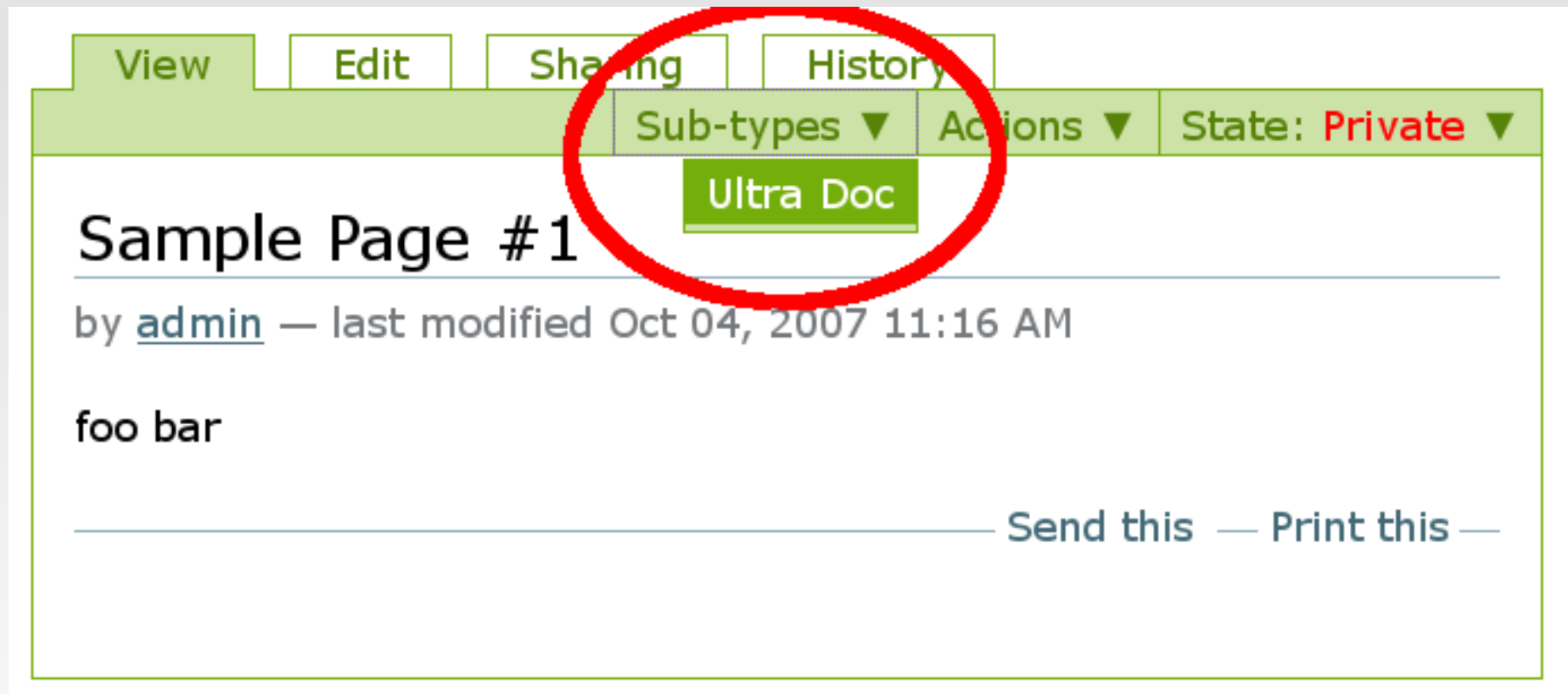
Tying Together – ZCML

```
<utility  
    name="ultradoc"
```

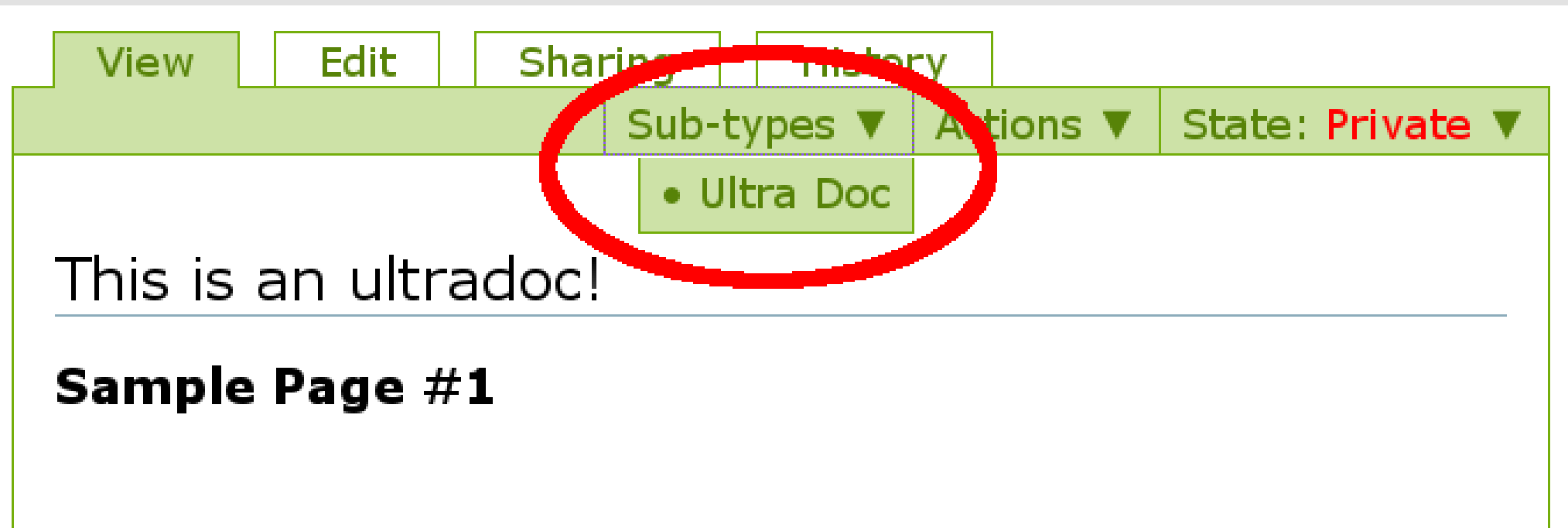
```
factory=".descriptors.UltraDocDescriptor"  
/>
```

```
<browser:page  
    for=".interfaces.IUltraDoc"  
    name="document_view"  
    permission="zope2.View"  
    template="ultradoc.pt"  
/>
```


An Example: Before

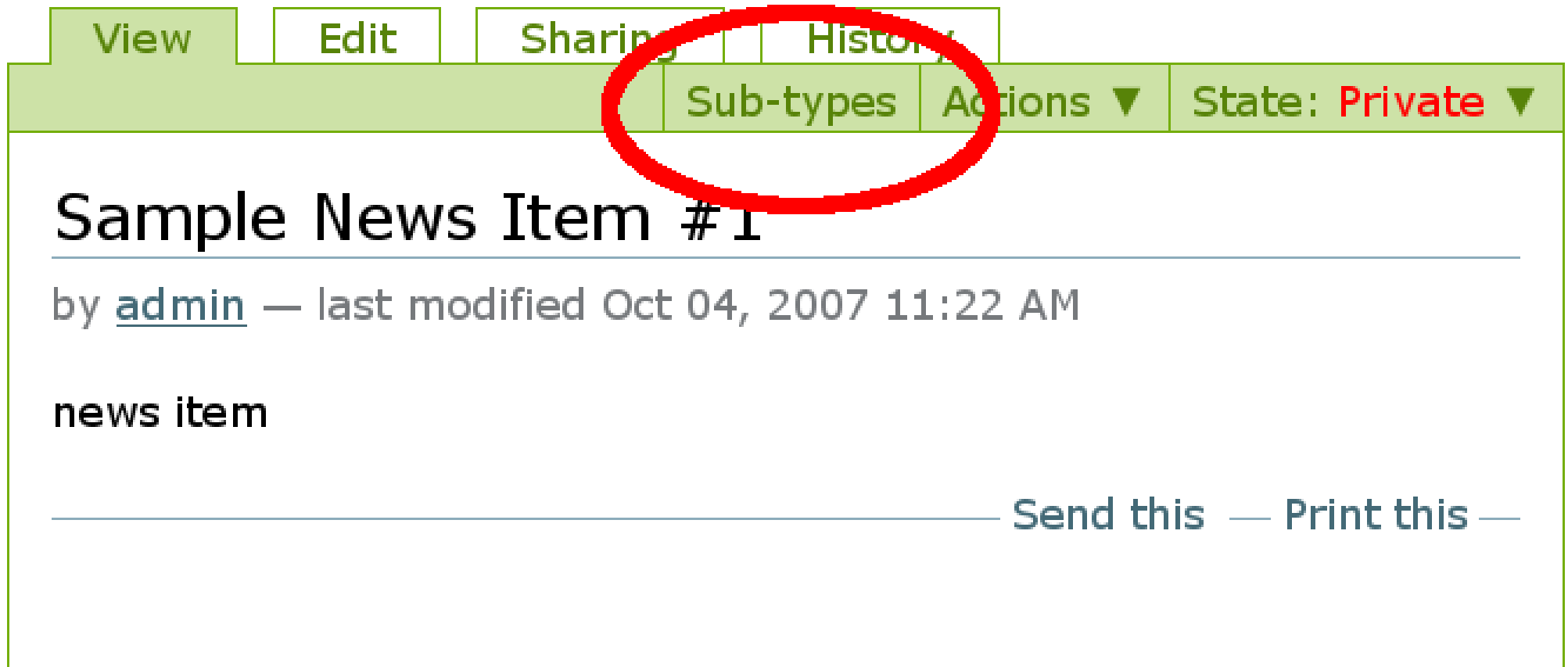


An Example: After



The screenshot displays the serverZEN interface for a document. At the top, there is a navigation bar with tabs for 'View', 'Edit', 'Sharing', and 'History'. Below these tabs is a green bar containing three dropdown menus: 'Sub-types ▼', 'Actions ▼', and 'State: Private ▼'. A red circle is drawn around the 'Sub-types ▼' dropdown, which is currently open, showing a single option: '• Ultra Doc'. Below the navigation bar, the main content area contains the text 'This is an ultradoc!' followed by a horizontal line and the text 'Sample Page #1'.

An Example: Regular Content



The screenshot displays a web interface for a news item. At the top, there is a navigation bar with tabs for 'View', 'Edit', 'Sharing', and 'History'. Below these tabs is a green bar containing 'Sub-types', 'Actions ▼', and 'State: Private ▼'. A red circle is drawn around the 'Sub-types' and 'Actions' items. The main content area shows the title 'Sample News Item #1' underlined, followed by the text 'by [admin](#) — last modified Oct 04, 2007 11:22 AM'. Below this is the text 'news item'. At the bottom right, there are links for 'Send this' and 'Print this' separated by a horizontal line.

View Edit Sharing History

Sub-types Actions ▼ State: Private ▼

Sample News Item #1

by [admin](#) — last modified Oct 04, 2007 11:22 AM

news item

Send this — Print this —

Other Features

- Special subtype events
- Extension by adapters and schema's

Questions?
Comments?
Resources at:

[http://www.serverzen.com
/training/subtyping-unleashed](http://www.serverzen.com/training/subtyping-unleashed)