

WebStyle

Customising the look of your server



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- Each module defines its own template:
 - `websearch_templates.py`
 - `webcomment_templates.py`
 - `webstyle_templates.py`
 - etc.

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 - `webcomment_templates.py`
 - `webstyle_templates.py`
 - etc.
- Default templates can be overridden (sub-classed):
 - in `invenio-local.conf`: `CFG_WEBSTYLE_TEMPLATE_SKIN = foo`
 - create `webstyle_templates_`**foo**`.py` in `/opt/invenio/lib/python/invenio/`
 - subclass `Template` and override any desired function


```
from invenio.config import CFG_SITE_LANG
from invenio.webstyle_templates import Template as DefaultTemplate

class Template(DefaultTemplate):
    """Ithaca style templates."""

    def tpl_pagefooter(self, req=None, ln=CFG_SITE_LANG,
                      lastupdated=None, pagefooteradd=""):
        """
        Ithaca style page footer. See the default function for
        the meaning of parameters.
        """
        out = ""
        out += """<hr>This site has no footer.
                </body>
                </html>"""
        return out
```

- **Do not forget to restart Apache**

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- `webstyle_templates.py` (and `websession_templates.py`) and CSS file are the most likely to be customized

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- String messages translation:
 - ```
from invenio.messages import gettext_set_language
_ = gettext_set_language(ln)
my_translated_message = _("my message")
```



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  - ```
from invenio.messages import gettext_set_language
_ = gettext_set_language(ln)
my_translated_message = _("my message")
```
- Do not forget to add the necessary `import` statements in your custom templates

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webstyle_templates/
tmpl_create_userinfobox(user_name='guest', usestats=False, referee=False, ...)

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webstyle_templates/
tmpl_language_selection_box
(req, en)

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**webstyle_templates/
tmpl_pagefooter(req, ln, ...)**

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Checking templates



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```
# Before installing on top of your installation:  
$ make check-custom-templates  
# checks template from release against installed on  
# and find mismatch of interfaces
```



```
# Before installing on top of your installation:  
$ make check-custom-templates  
# checks template from release against installed on  
# and find mismatch of interfaces  
  
# Can be run at any time with  
$ python /opt/invenio/lib/python/invenio/template.py \  
    --check-custom-templates
```


Current shortcomings

- **Business logic & presentation layer separation enforced by coding guidelines only**
 - Some templates might be more difficult to customise
 - ... and maintain

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 - CSS style & "widgets" not consistent across modules
 - ↳ multiplication of places to edit

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 - ↳ multiplication of places to edit
- Many small functions not always conveniently grouped



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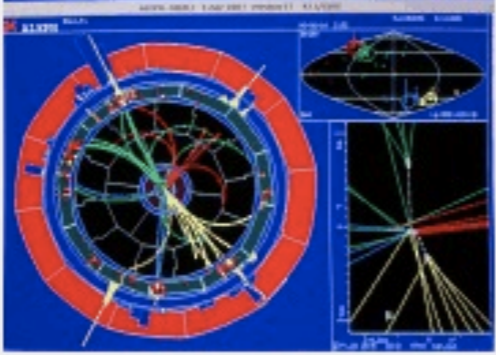
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in `websubmit_templates.tmpl_bibdoc_filelist(...)`



The future

- Transitioning to Jinja2 templates
- Investigating UI frameworks
- Explosion of REST APIs with Flask