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Cells & Apotomo

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Cells

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Cells

Components for Rails.

Qu'est-ce qu'un composant ? Exemple canonique : *un panier d'achat* .

- M. **Product Owner** dit : le Panier d'Achat
- M. **Framework** dit : un controleur + une vue
- M. **Programmeur** dit : controleur + filtres + partials + helpers + ...
- ...

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Cells

- Axé sur la notion de composant fonctionnel.
- Composants réutilisables.
- Composition de composants.

⇒ cellule

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Cells — une cellule...

- permet de modéliser un composant fonctionnel
- ressemble à un (mini-)controleur
- sera au final rendue sous la forme d'une chaîne de caractères
- peut être rendue n'importe où dans un controleur ou une vue
- peut être mixée avec une autre cellule (~~DoubleRenderError~~)
- peut être mise en cache et testée indépendamment des autres
- remet la POO au cœur du framework :)

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Cells — un exemple

```
$ rails generate cell cart display -e haml
create  app/cells/
create  app/cells/cart
create  app/cells/cart_cell.rb
create  app/cells/cart/display.html.haml
create  test/cells/cart_test.rb
```

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Cells – app/cells/cart_cell.rb

```
class CartCell < Cell::Rails
  def display(args)
    user = args[:user]
    @items = user.items_in_cart
    render # renders display.html.haml
  end
end
```

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Cells — app/cells/cart/display.html.haml

```
#cart
You have #{@items.size} items in your shopping cart.
```

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Cells — layouts/application.html.erb & ...

```
<%= render_cell :cart, :display,
               :user => @current_user %>
```

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Cells — bonnes pratiques

- Dependency injection
- Éviter les partials
- Utiliser l'héritage de vues
- Déléguer avec les Builders
- Penser à mettre en cache

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Cells

- github.com/apotonick/cells
- github.com/apotonick/cells_examples
- github.com/apotonick/cells-blog-example

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Apotomo

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Apotomo

Web Components for Rails.

- Construit autour de la notion de Widget.
- Widget = Cell + states + events

Ex. canonique : *le bloc de commentaires*.

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Apotomo — un exemple

```
$ rails generate apotomo:widget CommentsWidget\  
      display write -e haml  
  
create  app/widgets/  
create  app/widgets/comments_widget  
create  app/widgets/comments_widget.rb  
create  app/widgets/comments_widget/display.html.haml  
create  app/widgets/comments_widget/write.html.haml  
create  test/widgets/comments_widget_test.rb
```

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Apotomo — app/widgets/comments_widget.rb (1/2)

```
class CommentsWidget < Apotomo::Widget  
  responds_to_event :submit, :with => :write!  
  
  def display(args)  
    @comments = args[:post].comments  
    render  
  end  
end
```

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Apotomo — app/widgets/comments_widget.rb (2/2)

```
def write!(evt)  
  @comment = Comment.new(:post_id => evt[:post_id])  
  @comment.update_attributes evt[:comment]  
  
  update :state => :display  
end  
end
```

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Apotomo — app/widgets/comments/display.haml

```
# let's talk about this later
```

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Apotomo — app/controllers/posts_controller.rb

```
class PostsController < ApplicationController
  include Apotomo::Rails::ControllerMethods
  has_widgets do |root|
    root << widget('comments_widget',
                  'post-comments',
                  :post => @post)
  end
end
```

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Apotomo - app/views/posts/show.haml

```
%h1 @post.title
%p
  @post.body
%p
  = render_widget 'post-comments'
```

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Apotomo – app/widgets/comments/display.haml (1/2)

```
= widget_div do
  - form_for :comment, @comment, :html => {
    "data-event-url" => url_for_event(:submit)
  } do |f|
    = f.error_messages
    = f.text_field :text
    = submit_tag "Don't be shy, comment!"
```

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Apotomo – app/widgets/comments/display.haml (2/2)

```

:javascript
var form = $("##{widget_id} form");
form.submit(function() {
  $.ajax({url: form.attr("data-event-url"),
    data: form.serialize()})
  return false;
});

```

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Apotomo — testing

```

class CommentsWidgetTest < Apotomo::TestCase
  has_widgets { |root| ... }

  def test_render
    render_widget 'me'; assert_select "li#me"
    trigger :submit, :comment => {:text => ""}
    assert_response 'blabla'
  end
end

```

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Atypic / CDGP

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Atypic / CDGP

Le besoin : une API de widgets (*blocks*) en cross-domain

Notre solution : un backend Apotomo adapté et du JSONP

- Tout CDGP, certaines parties d'Atypic seulement (coffre-fort...)
- Loves Backbone : composants visuels == fonctionnels

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Atypic / CDGP — API (1/3)

```

class Widgets::DispatcherController < ApplicationController
  # rappel : exécuté dans le contexte d'une requête
  has_widgets do |root|
    root << widget("block_widgets/#{params[:block_type]}",
      params[:source] || widget_uuid,
      params)
  end
end

```

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Atypic / CDGP — API (2/3)

```
def index
  res = render_widget(widget_uuid, :display)
  render_widget!(res)
end
def render_event_response
  res = apotomo_request_processor.process_for(params).first
  render_widget!(res)
end
```

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Atypic / CDGP — API (3/3)

```
def render_widget!(res)
  # take content, status, metadata from res
  respond_to do |format|
    format.html { render :inline => content,
                        :status => status}
    format.json { render :json => {
                        # smart things here
                      }.to_json,
                      :callback => params[:callback] }
  }
end
```

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Atypic / CDGP – Custom Apotomo backend (1/4)

```
class RemoteWidget < Apotomo::Widget
  include ActiveSupport::Rescuable
  include ApplicationHelper
  include WidgetsHelper
  helper ApplicationHelper
  helper Widgets::CssHelper
  helper Widgets::SocializeHelper
  before_filter :setup!
```

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Atypic / CDGP — Custom Apotomo backend (2/4)

```
def render(*args, &block)
```

```
# if ok? render_ok
# elsif no_content? render_no_content
# elsif error? render_error
# else super
end
```

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Atypic / CDGP — Custom Apotomo backend (3/4)

```
def render_ok(options = {})
  escape = options.delete :escape
  view = render(:view => @state, :locals => options)
  view = CGI::escapeHTML(view) if escape
  {:content => view,
   :status => :ok,
   :metadata => @metadata}
end
```

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Atypic / CDGP — Custom Apotomo backend (4/4)

- [FormWidget](#)
- [widgets.js](#)

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Apotomo++

- Du code concis, réutilisable
- Bubbling events
- Composition de widgets
- Simple d'utilisation en équipe
- ✓ Test/Unit / MiniTest

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Apotomo

- [github/apotonick/apotomo](#)
- [apotomo.de](#)
- [screencasts](#)

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