Wagtail - Zapoznanie z popularnym CMSem do Django

Bartosz Dąbrowski

Kim jestem

Bartosz Dąbrowski @ Softserve

Czego się nauczymy?

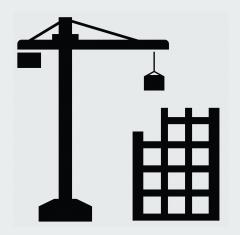
- Poznamy Wagtaila od strony teoretycznej
- Pokażę przykładową aplikację rozwiązująca życiowy problem
- Zapoznamy się z kilkoma podstawowymi budulcami Wagtaila
- Pokażemy i omówimy część kodu przykładowej aplikacji
- Opowiemy o dodatkowych funkcjonalnościach
- Powiemy sobie co jest nie tak z Wagtail'em
- Spojrzymy także w przyszłość

Co to jest Wagtail?



Wagtail Objectives

Budowa Systemu



Zarządzanie Treścią



Multiple hats





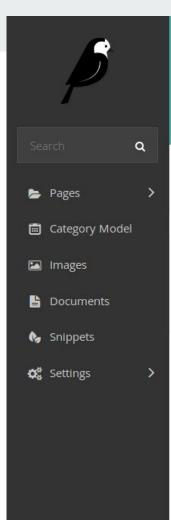
Wordpress	Bardzo Wysoki
Wagtail	Średni
Django admin	Niski

DX & UX



Wagtail is Django







Welcome to the foodshare Wagtail CMS

other

No, but seriously -- welcome to the admin homepage.



25 Pages



35 Images



Documents

YOUR MOST RECENT EDITS

TITLE	DATE STA	TUS
Hamburgery Vegaśkie z Fasoli	, ,	IVE
	20 hours	
	ago	

Google











Dlaczego Wagtail?

• Technologia której można zaufać

UI/UX - wybór edytorów

Innowacyjny

Problem

News Radio Most Popular About Us Contact Us

Poles among EU's biggest food wasters: report

16.10.2018 07:30

Poland is in fifth place in the European Union in terms of the amount of food wasted per person, according to a report.



Photo: Hans/pixabay/CC0 Creative Commons

Poles waste 235 kilogrammes of food per person per year, a study by professional services firm Deloitte said.







BALANCE :: 4 There's no business like bo ...

A look at "The Polish Book Market 2018" report released by the Polish

Book ...



O&A :: 25 **1** vears of cleaning up Poland

This year marks 25 years since the Clean Up the World campaign was

launche ...

Most Popular

Planned canal to boost Poland' ...

New book reveals ex-PM Tusk's ...

Germans bought news outlets to ...

Fewer Poles at risk of poverty ...

Over 1,000 events to mark cent ...

Radio Shorts



20-year US LNG deal

long-term agreement with two American companies for the

Home

Spam Egg



Możesz podzielić się swoim jedzeniem używając formularza:

owano o:	
page title as you'd like it to be seen by the public	
	//

Image upload:

Browse... No file selected.



Golonka Gotowana

Wagtail adapts and extends the Django permission system to cater for the needs of website content creation, such as moderation workflows, and multiple teams working on different areas of a site (or multiple sites within the same Wagtail installation). Permissions can be configured through the 'Groups' area of the Wagtail admin interface, under 'Settings'.



Gulasz

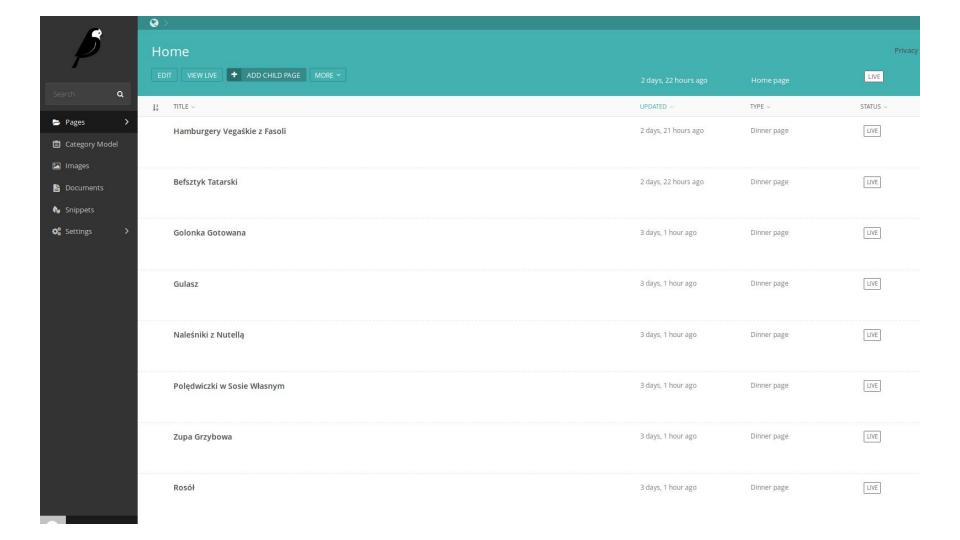
Wagtail supports generating embed code from URLs to content on external providers such as Youtube or Twitter. By default, Wagtail will fetch the embed code directly from the relevant provider's site using the oEmbed protocol.

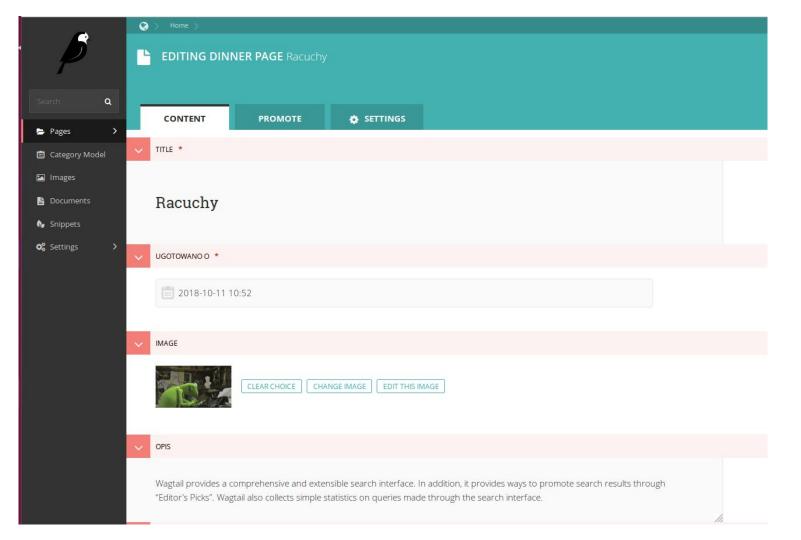


Naleśniki z Nutellą

Wagtail provides a comprehensive and extensible search interface. In addition, it provides ways to promote search results through "Editor's Picks".

Wagtail also collects simple statistics on queries made through the search interface.





Page

```
class DinnerPage(Page):
    image = models.ForeignKey(
        wagtailimages. Image',
        null=True, blank=True, on delete=models.SET NULL,
   advert = models.ForeignKey('home.Advert', null=True, blank=True,
                               on delete=models.SET NULL, related name='+')
   cooked = models.DateTimeField("Ugotowano o")
   body = models.TextField("Opis", blank=True)
    search fields = Page.search fields + [
        index.SearchField('title'),
        index.SearchField('body'),
        index.FilterField('cooked'),
    content panels = Page.content panels + [
        FieldPanel('cooked'),
        ImageChooserPanel('image'),
        FieldPanel('body', classname="full"),
        FieldPanel('advert'), ]
```

Page Dziedziczenie

Wagtail

Page

ld

path

numchild

title

first_published_at

FoodShare

DinnerPage

page_ptr_id

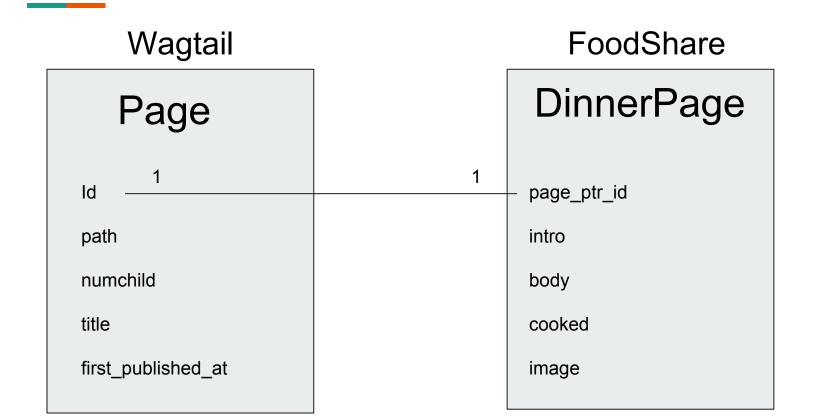
intro

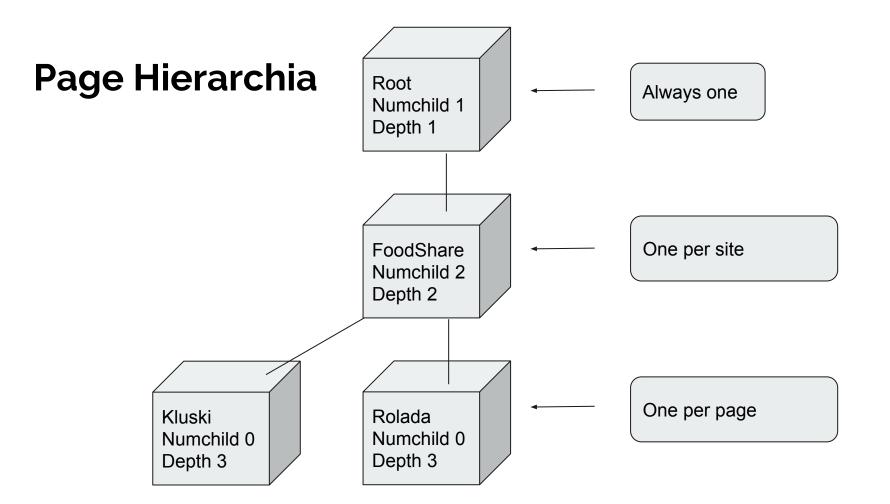
body

cooked

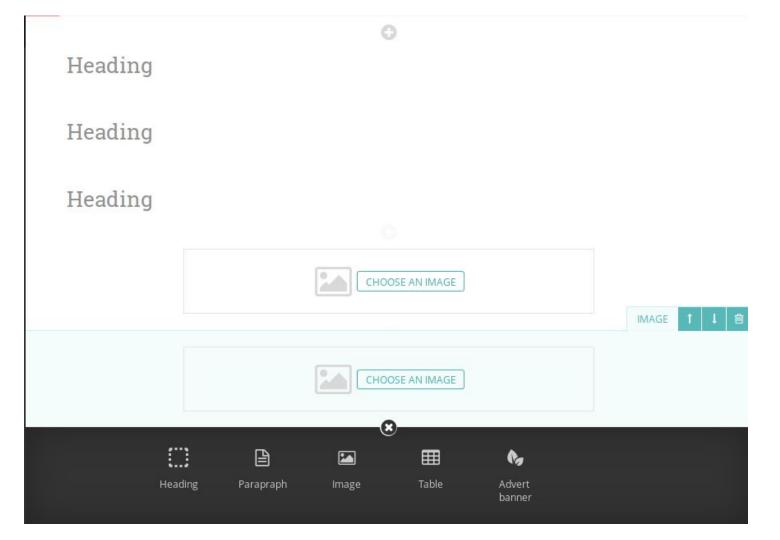
image

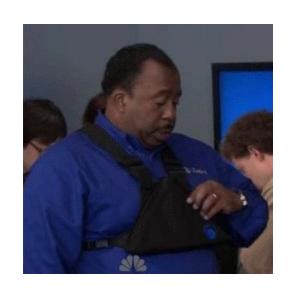
Page Relacja



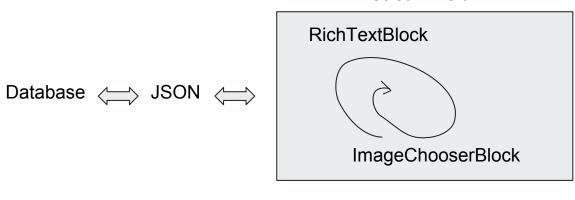


StreamField





StreamField





StreamFieldPanel



{% include_block %}



Admin Interface HTML



User Interface

Images

FieldPanel('body', classname="full"),



Collection:

7 Legacy Article

0 Images

r Documents

D Snippets

All collections

Search images

LATEST IMAGES





Royal Botanic Gardens in Kew, London



Royal Botanic Gardens in Kew, London



Royal Botanic Gardens in Kew, London



Royal Botanic Gardens in Kew, London



Royal Botanic Gardens in Kew, London



Royal Botanic Gardens in Kew, London



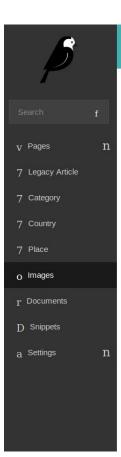
Royal Botanic Gardens in Kew, London



Royal Botanic Gardens in Kew, London



Royal Botanic Gardens in Kew, London



O EDITING Royal Botanic Gardens in Kew, London

Title: *	Royal Botanic Gardens in Kew, London	
File: *	o DSCF0387_18.jpeg (1920x1440) Change image file:	
	Browse No file selected.	
	Supported formats: GIF, JPEG, PNG. Maximum filesize: 10.0 MB.	
Collection:	Root	q
Tags:		

DELETE IMAGE

Focal point (optional)

To define this image's most important region, drag a box over the image below.



REMOVE FOCAL AREA

MAX DIMENSIONS

1920x1440

397.4 KB

Extra features

- Programistyczny i Szablonowy interface dla miniaturek
- Animated GIF support (optional)
- Możliwość użycia custmowego modelu Image
- Automatyczne wykrywanie punktu centralnego zdjęcia (optinal + requires configuration)
- Mass upload

Życiowy przykład

Home

Możesz podzielić się swoim jedzeniem używając formularza:

gotowano o:
itle:
he page title as you'd like it to be seen by the public
pis:
mage upload: Browse No file selected.
WYŠUJ POSREK
SEARCH



Befsztyk Tatarski

StreamField provides a content editing model suitable for pages that do not follow a fixed structure – such as blog posts or news stories – where the text may be interspersed with subheadings, images, pull quotes and video. It's also suitable for more specialised content types, such as maps and charts (or, for a programming blog, code snippets). In this model, these different content types are represented as a sequence of 'blocks', which can be repeated and arranged in any order.



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class HomePage(Page):

[...]

```
[...]
114 0
           def serve(self, request, *args, **kwargs):
                if request.method == 'POST':
                    form = AddDinnerForm(request.POST, request.FILES)
                    if form.is valid():
                        form.save()
                        return render(
120 #
                            request, 'home/home page.html',
                            {'page': self, 'form': AddDinnerForm(),
                             'dinners': self.get children().order by('-first published at'),
                             'submitted': True, })
                else:
                    form = AddDinnerForm()
                results = self.get children().order by('-first published at')
                if 'query' in request.GET and request.GET['query']:
                    results = self.apply search(results, request)
                results = self.apply pagination(results, request)
                return render(
133
                    request, 'home/home page.html',
                    {'page': self, 'form': form, 'dinners': results, 'submitted': False,}
```

dclass HomePage(Page):

```
{% load wagtailimages tags %}
 {% block body class %}template-homepage{% endblock %}
<div class="container"><div class="row"><div class="column">
        <h1>{{ page.title }}</h1>
        {% include block page.body %}
        {% if submitted %}<h3>Dziękujemy, Twój posiłek został dodany. W międzyczasie możesz dodać kolej
        <form action="." method="POST" enctype="multipart/form-data">
            {% csrf token %}
            {{ form.as p }}
            <input type="submit" value="Wyślij posiłek">
        </form>
        <form action="{% slugurl 'home' %}" method="get">
          <input type="text" name="query"{% if search query %} value="{{ search query }}"{% endif %}>
          <input type="submit" value="Search" class="button">
        </form>
       {% for dinner in dinners %}
        {% with dinner=dinner.specific %}
            {% image dinner.image width-500 %}
            <h2><a href="{% pageurl dinner %}">{{ dinner.title }}</a></h2>
            {{ dinner.body|richtext }}
            <hr>
        {% endwith %}
        {% endfor %}
  </div></div>
{% endblock %}
```

{% extends "base.html" %}
{% load wagtailcore tags %}

```
class AddDinnerForm(forms.ModelForm):
           image upload = forms.ImageField(required=False)
           class Meta:
               model = DinnerPage
               fields = ['cooked', 'title', 'body', 'image upload']
          def save(self, commit=True):
87 0
               self.instance.title = self.instance.title
               self.instance.latest revision created at = timezone.now()
               self.instance.first published at = timezone.now()
               image = Image(title='Nice photo', file=ImageFile(self.files['image upload']))
               image.save()
               self.instance.image = image
               home = HomePage.objects.get(slug='home')
               home.add child(instance=self.instance)
               revision = self.instance.save revision(submitted for moderation=False)
               if self.instance.live:
                   revision.publish()
```

return self.instance

Settings

- Uprawnienia
- Kolekcje
- Modele
- Hooki
- Przekierowania
- Definiowanie własnych ustawienia

Więcej...

- Search
- Snippets
- Form builder
- Cache Invalidator
- Sitemap generator
- Multiple sites handling
- API support

Co nie jest idealne?

- Wagtail realizuję wiele celów jednocześnie
- Model nie jest już tylko modelem
- Musisz znać Django aby stworzyć w pełni funkcjonalny system
- Kardra
- Wiele możliwość
- Inne

Przyszłość

- Drop JQuery (Go with React probably)
- Github like inline review
- Machine Learning
- CX Customized content per user preferences
- Better integration
- Better headless

Summary

- Czy jest Wagtail
- Page
- StreamField
- Image
- Przykład
- Settings
- Co jest nie tak z Wagtailem?
- Przyszłość

Dziękuję za uwagę!

bar.dabrowski@gmail.com