

Gdy Ember spotka Django



Ember:

A framework for creating ambitious web applications

Django:

The web framework for perfectionists with deadlines

- Tworzenie dynamicznych aplikacji „na jednej stronie”
- Sposób na uporządkowanie kodu JavaScript aplikacji

A jak to wygląda w praktyce?

Modele

```
class Category(models.Model):
    name = models.CharField(unique=True, max_length=100)
    slug = models.SlugField(unique=True)

    def __str__(self):
        return self.name
```

```
class Post(models.Model):
    title = models.CharField(max_length=200)
    slug = models.SlugField(unique=True)
    text = models.TextField()
    category = models.ForeignKey(Category)
    posted_date = models.DateTimeField(auto_now_add=True)

    def __str__(self):
        return self.title
```

```
Blog.Category = DS.Model.extend({
    name: DS.attr('string'),
    slug: DS.attr('string')
});
Blog.Post = DS.Model.extend({
    title: DS.attr('string'),
    slug: DS.attr('string'),
    text: DS.attr('string'),
    category: DS.belongsTo('category', {async: true}),
    posted_date: DS.attr('date')
});
```

Routing - URLe

```
urlpatterns = patterns(
    'blog.views',
    url(r'^$', 'home_view', name='posts'),
    url(r'^(?P<slug>[\w\-\_]+)/$', 'post_view', name='post'),
)
```

```
Blog.Router.map(function() {
    this.route('posts');
    this.route('post', {path: 'posts/:id'});
});
```

Generic Views

```
class HomeView(generic.ListView):  
    def get_queryset(self):  
        return models.Post.objects.all().order_by('-posted_date')
```

```
home_view = HomeView.as_view()
```

```
class PostView(generic.DetailView):  
    model = models.Post
```

```
post_view = PostView.as_view()
```

```
Blog.PostsRoute = Ember.Route.extend({  
    model: function() {  
        return this.get('store').find('post');  
    }  
});  
Blog.PostRoute = Ember.Route.extend({  
    model: function(params) {  
        return this.get('store').find('post', params.id);  
    }  
});
```

Kontekst

```
def get_context_data(self, **kwargs):
    context = super().get_context_data()
    context['is_python'] = self._get_is_python()
    return context

def _get_is_python(self):
    return ('python' in self.object.category.name.lower()
           or 'python' in self.object.title)
```

```
Blog.PostController = Ember.ObjectController.extend({
  isPython: function() {
    var title = this.get('content.title').toLowerCase();
    var category = this.get('content.category.name');
    if (category) {
      category = category.toLowerCase();
      return title.indexOf('python') != -1 || category.indexOf('python') != -1;
    }
  }.property('content.title', 'content.category.name')
});
```

Szablony

```
{% for post in post_list %}
  <h2><a href="{% url 'post' post.slug %}">{{ post.title }}</a></h2>
  <blockquote>
    {{ post.text|safe }}
    <p>{{ post.posted_date|date:"Y.m.d H:i" }}, {{ post.category.name}}</p>
  </blockquote>
{% endfor %}
```

```
{% verbatim %}
{{#each post in content}}
  <h2>{{#link-to "post" post.id}}{{post.title}}{[/link-to]}</h2>
  <blockquote>
    {{{post.text}}}
    <p>{{post.posted_date}}, {{post.category.name}}</p>
  </blockquote>
{{/each}}
{% endverbatim %}
```


Co jeszcze?

- **Widoki** – do integracji kodu opartego o zdarzenia z aplikacją emberową
- **Akcje** – wysokopoziomowa reprezentacja tych zdarzeń
- **Różne adaptory** ember-data
(inne frameworki, języki)
- **Django-javascript-settings** – przekazywanie konfiguracji, ścieżek itd.

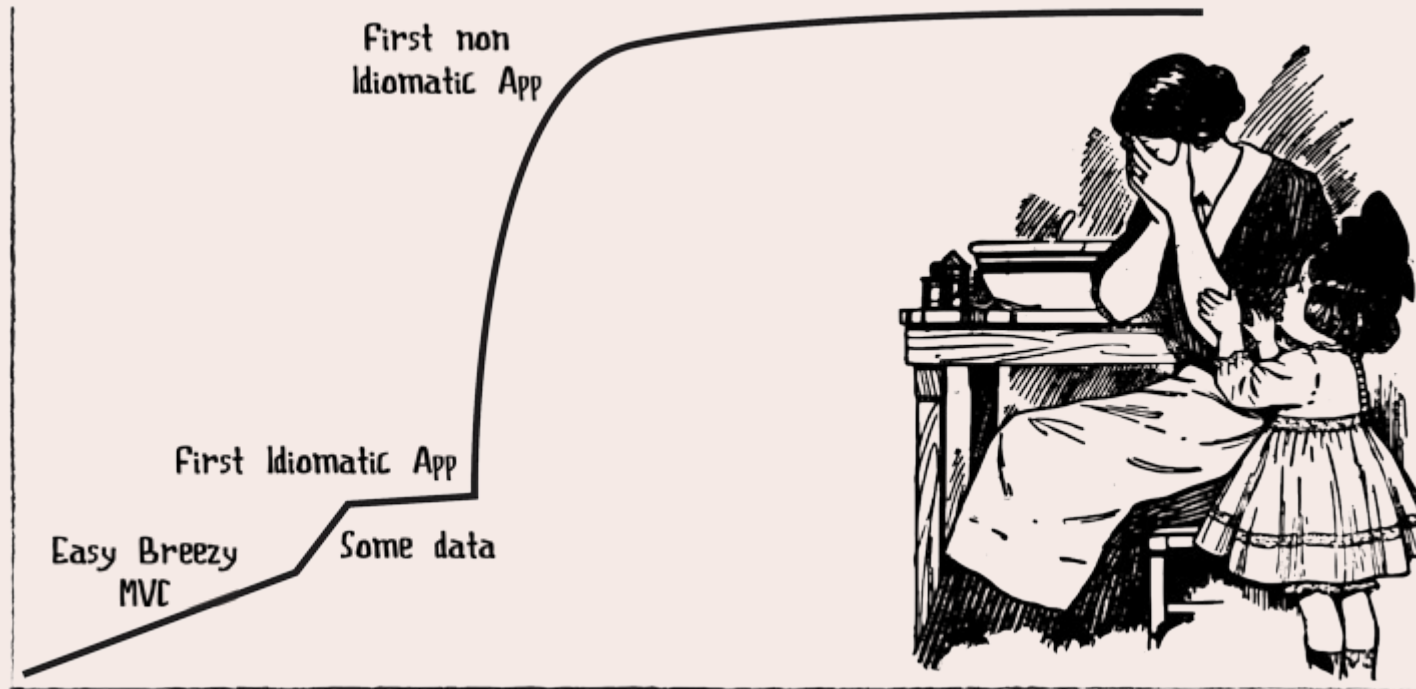


A gdzie tkwi haczyk?

**Asynchroniczna aplikacja
wykorzystująca bindingi
(property) a nie zdarzenia (events)**



Learning curve



**STOP BREAKING THE
API**

**OR I'LL SWITCH TO
BACKBONE**

memegenerator.net

**SOMETHING IS NOT WORKING WITH
EMBER.JS**

**I HAVE NO FUCKING IDEA
WHAT IT IS.**

memegenerator.net

Javascript



Please Just Work

MemeBucket.com

Sentry + Raven.JS

SEO



What my friends think I do



What society thinks I do



What Google thinks I do



What my clients think I do



What I think I do



What I actually do

Konkurencja

Konkurencija



Metric	AngularJS	Backbone.js	Ember.js
Stars on Github	27.2k	18.8k	11k
Third-Party Modules	800 ngmodules	236 backplugs	21 emberaddons
StackOverflow Questions	49.5k	15.9k	11.2k
YouTube Results	~75k	~16k	~6k
GitHub Contributors	928	230	393
Chrome Extension Users	150k	7k	38.3k



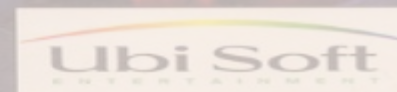
<https://www.airpair.com/js/javascript-framework-comparison>

8 JOUEURS
PAR MODEM
OU RESEAU

sur terre, sur mer
et dans les
airs...



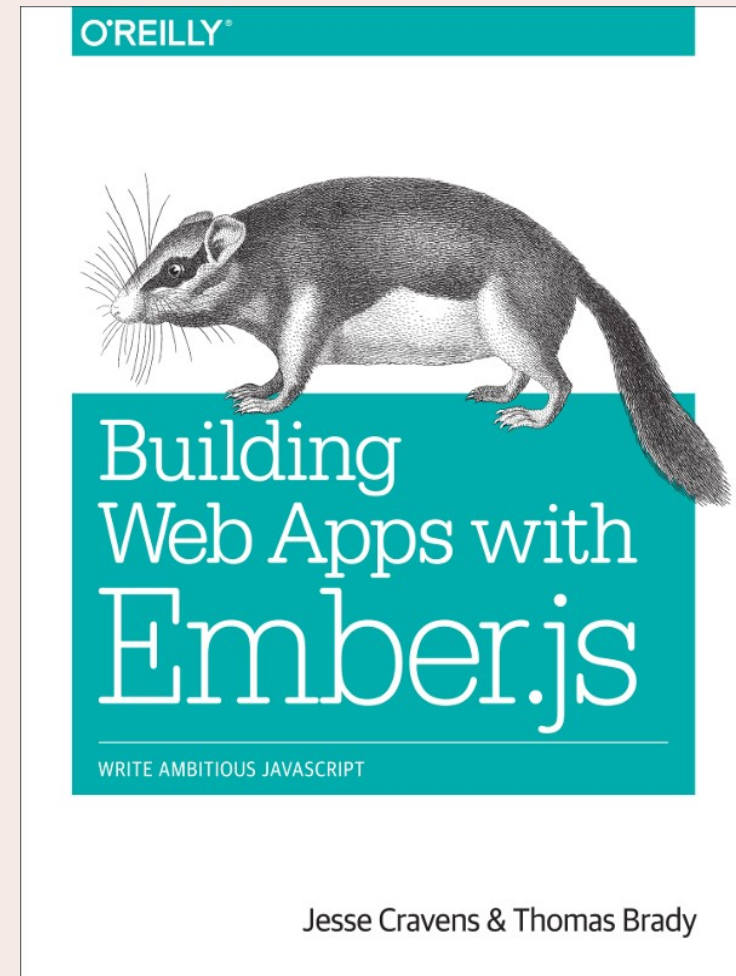
IBM CD-ROM



Jak zacząć?

- emberjs.com
- stackoverflow.com
- github.com/dustinfarris/ember-django-adapter
- www.youtube.com

- www.python.rk.edu.pl



Pytania?