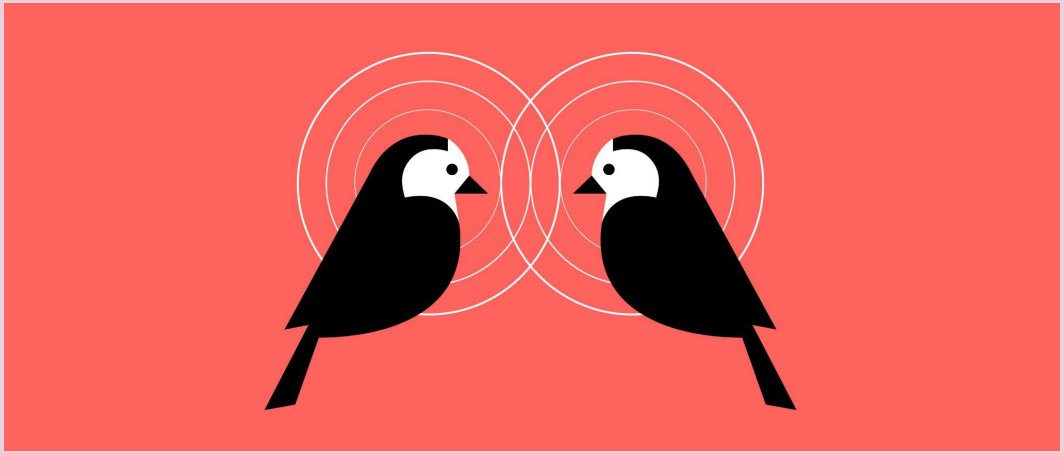


Telepath

Adding the missing link between Django and rich client apps

Matt Westcott - @gasmanic

Django is lagging behind
in its ability to deliver
the rich client-side user experiences
that people expect today.

ManagementForm, **total_form_count** and **initial_form_count**.

total_form_count returns the total number of forms in this formset. **initial_form_count** returns the number of forms in the formset that were pre-filled, and is also used to determine how many forms are required. You will probably never need to override either of these methods, so please be sure you understand what they do before doing so.

empty_form

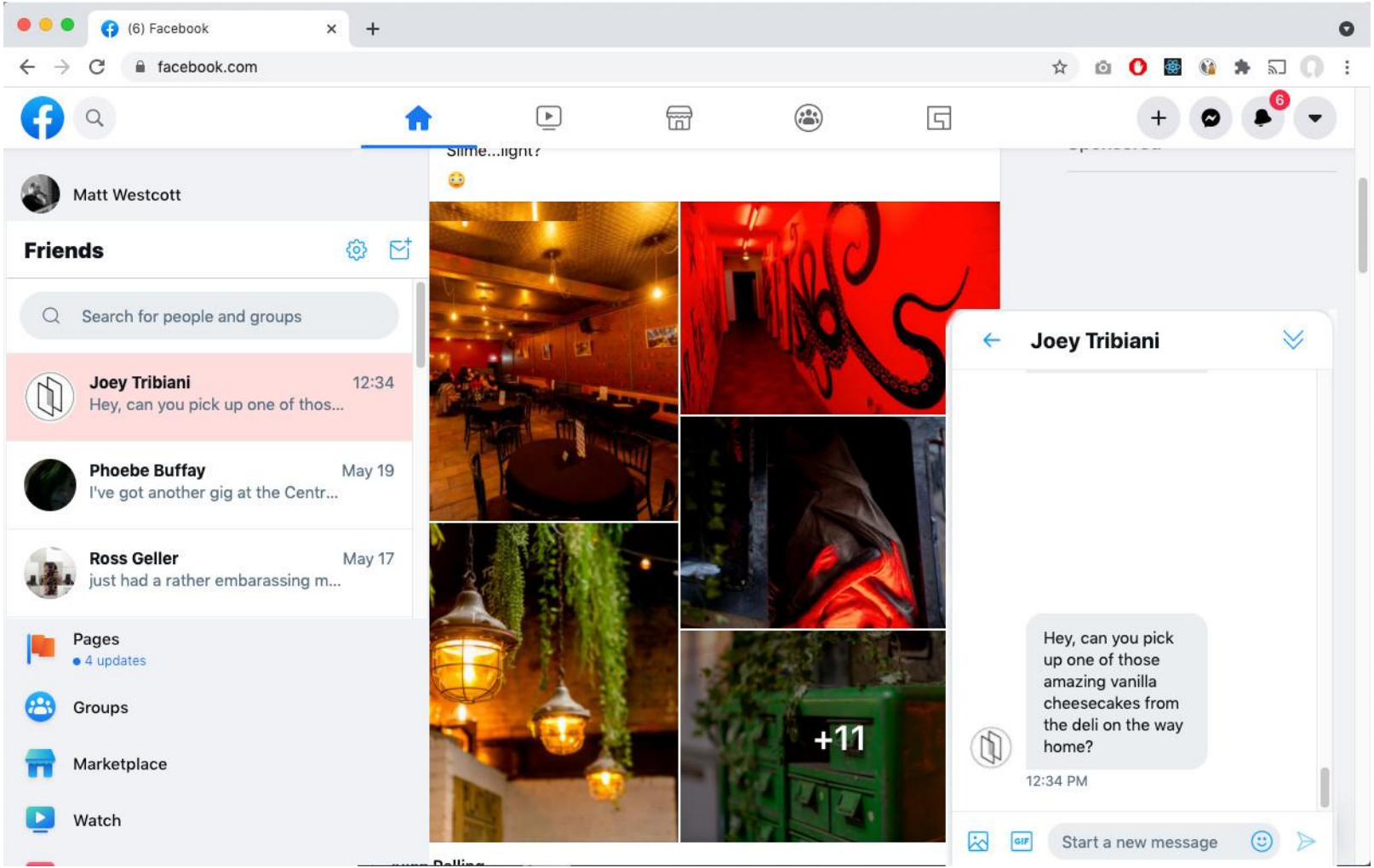
BaseFormSet provides an additional attribute **empty_form** which returns a form instance with a prefix of **__prefix__** for easier use in dynamic forms with JavaScript.

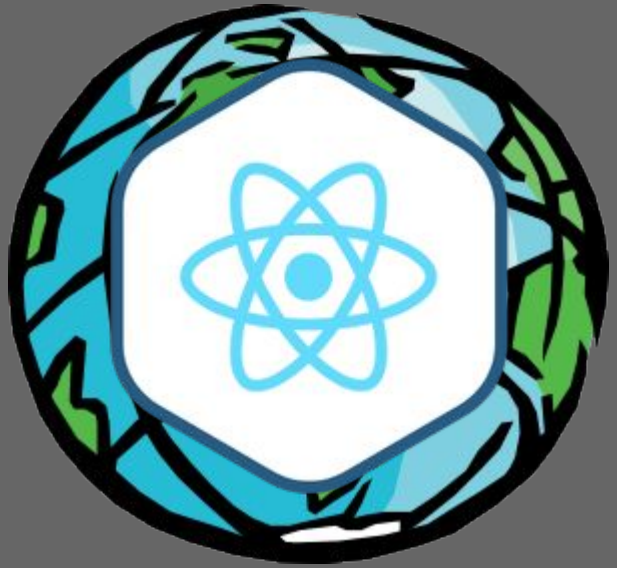
error_messages

New in Django 3.2.

The **error_messages** argument lets you override the default messages that the formset will raise. Pass in a dictionary with keys matching the error messages you want to override. For example, here is the default error message when the management form is missing:

```
>>> formset = ArticleFormSet({})
>>> formset.is_valid()
False
>>> formset.non_form_errors()
```


(6) Facebook
facebook.com
6
Matt Westcott
Friends
Search for people and groups
Joey Tribiani 12:34
Hey, can you pick up one of thos...
Phoebe Buffay May 19
I've got another gig at the Centr...
Ross Geller May 17
just had a rather embarassing m...
Pages
4 updates
Groups
Marketplace
Watch
+11
Joey Tribiani
Hey, can you pick up one of those amazing vanilla cheesecakes from the deli on the way home?
12:34 PM
Start a new message



```
{
  "id": 101,
  "src": "images/anadama.jpg",
  "align": "left",
  "caption": "Anadama bread"
}
```

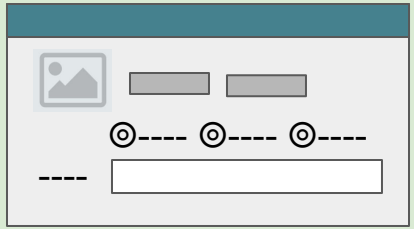
```
{
  "id": 101,
  "src": "images/anadama.jpg",
  "align": "left",
  "caption": "Anadama bread"
}
{
  "id": 102,
  "src": "images/anpan.jpg",
  "align": "right",
  "caption": "Anpan sweet bun"
}
```

```
{
  "id": 101,
  "src": "images/anadama.jpg",
  "align": "left",
  "caption": "Anadama bread"
}
{
  "id": 102,
  "src": "images/anpan.jpg",
  "align": "right",
  "caption": "Anpan sweet bun"
}
{
  "id": 103,
  "src": "images/arepa.jpg",
  "align": "center",
  "caption": "Arepa cornbread"
}
```

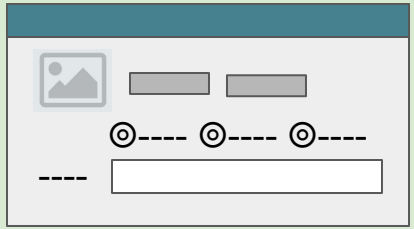
```
{
  "id": 101,
  "src": "images/anadama.jpg",
  "align": "left",
  "caption": "Anadama bread"
}
{
  "id": 102,
  "src": "images/anpan.jpg",
  "align": "right",
  "caption": "Anpan sweet bun"
}
{
  "id": 103,
  "src": "images/arepa.jpg",
  "align": "center",
  "caption": "Arepa cornbread"
}
{
  "id": 104,
  "src": "images/bagel.jpg",
  "align": "left",
  "caption": "Cheese bagel"
}
```

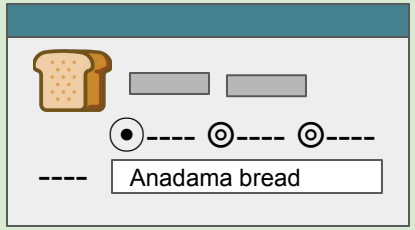
```
{
  "id": 101,
  "src": "images/anadama.jpg",
  "align": "left",
  "caption": "Anadama bread"
}
{
  "id": 102,
  "src": "images/anpan.jpg",
  "align": "right",
  "caption": "Anpan sweet bun"
}
{
  "id": 103,
  "src": "images/arepa.jpg",
  "align": "center",
  "caption": "Arepa cornbread"
}
{
  "id": 104,
  "src": "images/bagel.jpg",
  "align": "left",
  "caption": "Cheese bagel"
}
{
  "id": 105,
  "src": "images/baguette.jpg",
  "align": "right",
  "caption": "Baguette"
}
```

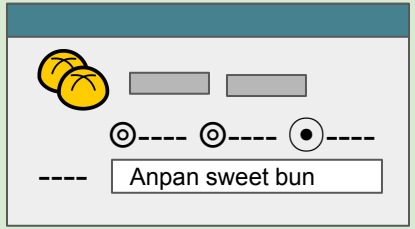
```
{
  "id": 101,
  "src": "images/anadama.jpg",
  "align": "left",
  "caption": "Anadama bread"
}
{
  "id": 102,
  "src": "images/anpan.jpg",
  "align": "right",
  "caption": "Anpan sweet bun"
}
{
  "id": 103,
  "src": "images/arepa.jpg",
  "align": "center",
  "caption": "Arepa cornbread"
}
{
  "id": 104,
  "src": "images/bagel.jpg",
  "align": "left",
  "caption": "Cheese bagel"
}
{
  "id": 105,
  "src": "images/baguette.jpg",
  "align": "right",
  "caption": "Baguette"
}
```

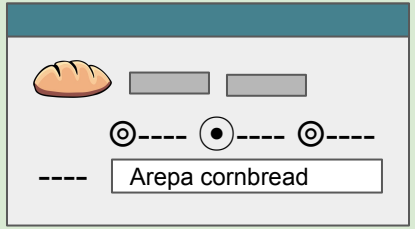



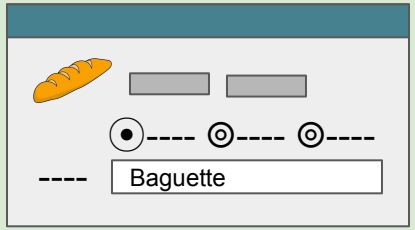
```
{
  "id": 101,
  "src": "images/anadama.jpg",
  "align": "left",
  "caption": "Anadama bread"
}
{
  "id": 102,
  "src": "images/anpan.jpg",
  "align": "right",
  "caption": "Anpan sweet bun"
}
{
  "id": 103,
  "src": "images/arepa.jpg",
  "align": "center",
  "caption": "Arepa cornbread"
}
{
  "id": 104,
  "src": "images/bagel.jpg",
  "align": "left",
  "caption": "Cheese bagel"
}
{
  "id": 105,
  "src": "images/baguette.jpg",
  "align": "right",
  "caption": "Baguette"
}
```









Title

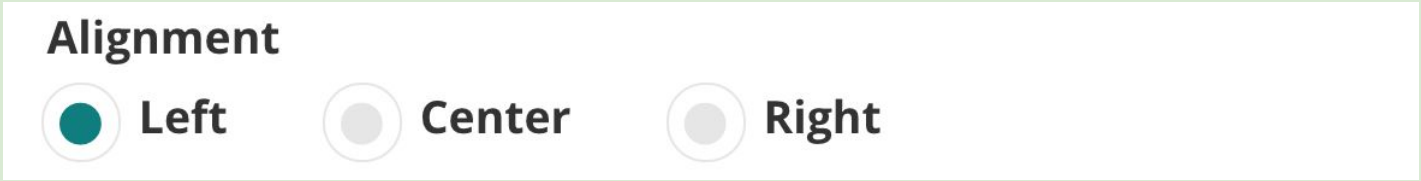
Hello world!

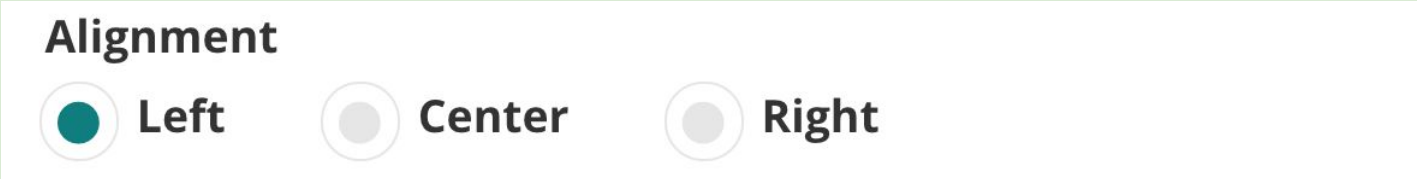
```
<label for="id-title">Title</label>

<input name="title" id="title" value="Hello world!">
```

```
<label for="id-title">Title</label>
<input name="title" id="title" value="Hello world!">
```

```
return document.getElementById('title').value;
document.getElementById('title').value = 'Goodbye World';
```

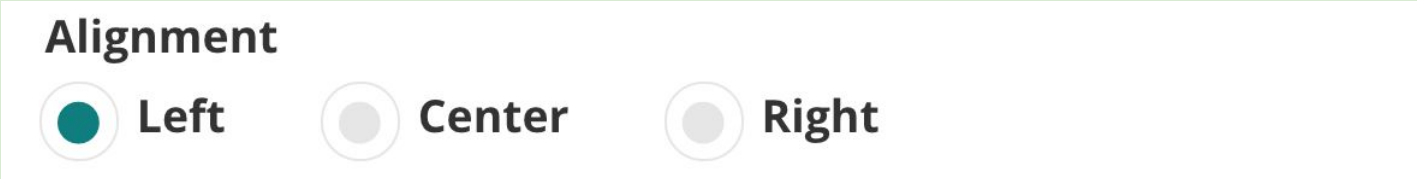

Alignment
Left
Center
Right




```
<label>Alignment</label>
<input type="radio" name="align" id="id-align-left" value="left">
<label for="id-align-left">Left</label>

<input type="radio" name="align" id="id-align-center" value="center">
<label for="id-align-center">Center</label>

<input type="radio" name="align" id="id-align-right" value="right" checked>
<label for="id-align-right">Right</label>
```




```
<label>Alignment</label>
<input type="radio" name="align" id="id-align-left" value="left">
<label for="id-align-left">Left</label>

<input type="radio" name="align" id="id-align-center" value="center">
<label for="id-align-center">Center</label>

<input type="radio" name="align" id="id-align-right" value="right" checked>
<label for="id-align-right">Right</label>
```

```
return document.querySelector("input[name='align'][checked]").value;
```

```
document.querySelector("input[name='align'][value='right']").checked = true;
```

Image

Anadama bread

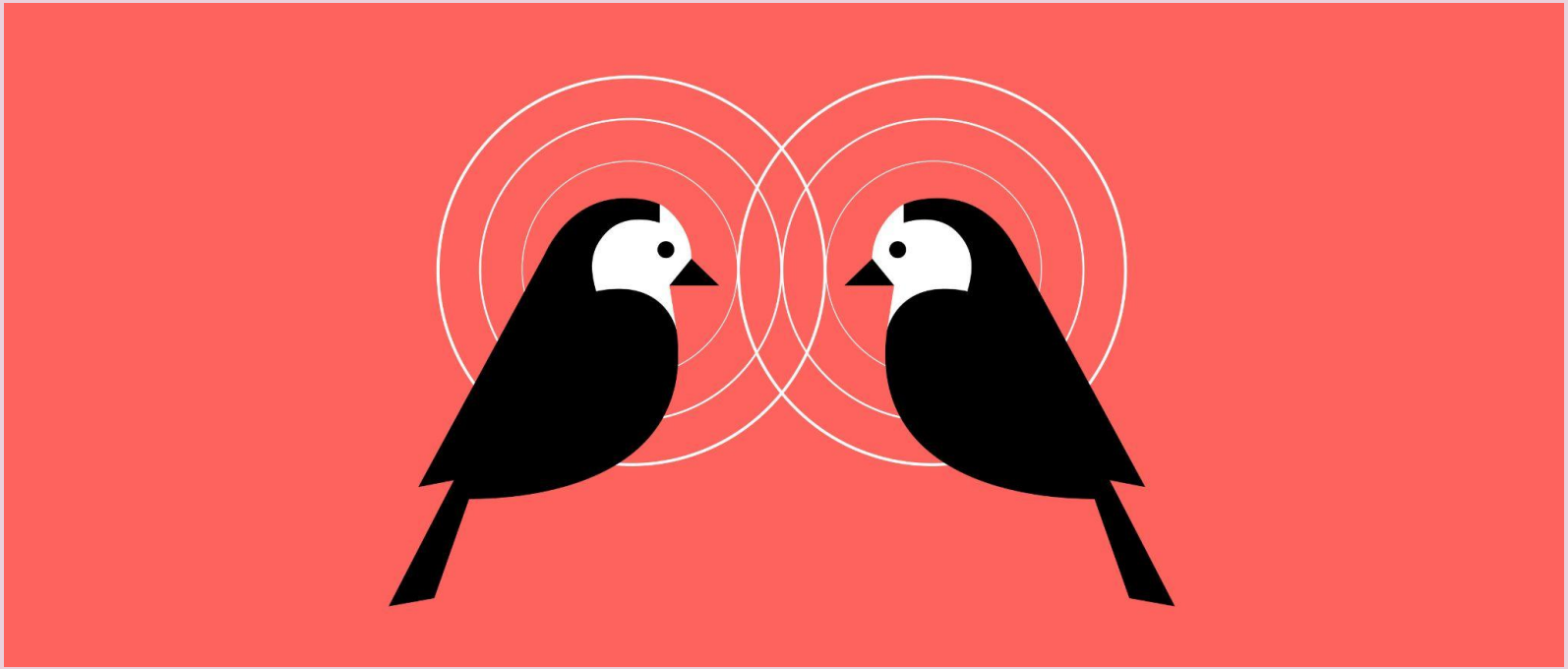
CHANGE IMAGE EDIT THIS IMAGE

Image

Anadama bread

CHANGE IMAGE EDIT THIS IMAGE

```
<label>Image</label>
<img src="/static/images/anadama.thumb.jpg">
<input type="hidden" name="image_id" value="123">
<p>Anadama bread</p>
<button>Change image</button>
<a href="/admin/images/123/edit">Edit this image</a>
```



https://wagtail.github.io/telepath/

it's `pickle`, but it un-pickles to JavaScript objects

it's `pickle`, but it un-pickles to JavaScript objects

it's a more generalised JSON that you can teach about new object types

https://wagtail.github.io/telepath/

Thank you!

...any questions?