

# Forms

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# Overview

- **Invitations**
- **Generate Forms from Models**
  - Validation
  - Styling
  - Views
  - Templates
- **Passing arguments to views**

# ModelForm

- Will generate a HTML form for a Model class
  - Will have appropriate HTML input for every model field
- Use Meta class to specify Model

```
class InvitationForm(ModelForm):  
    class Meta:  
        model = Invitation
```

- More about ModelForm: <http://goo.gl/ZBZhtM>

# Views and Forms

- **Initial view:**
  - HTTP GET
  - Initialize empty form instance
- **After submit:**
  - HTTP POST (but really depends on HTML <form>)
  - Initialize form instance from request.POST
  - Call `form.is_valid()`
- **Validation errors: render template again**
- **Everything ok: `form.save()`, `django.shortcuts.redirect`**
- **More info: <http://goo.gl/q7dk0N>**

# Templates and Forms



- `{{ form }}`
- `{% csrf_token %}`
- `<form action="" method="post">`
- `<button type="submit">`

# Model Field Options

- **Verbose name for display in forms**
  - First argument of field: `x = IntegerField("X coordinate")`
  - On foreign key fields use `verbose_name`
- **`help_text`**
- **Make a field nullable: `null=True`**
- **Allow empty text field: `blank=True`**
- <http://goo.gl/rgqWZu>

# Named Groups in URLs

- **Use named groups in your expression to capture parts of URL**
  - `(?P<name>expr)`
  - `(?P<pk>\d+)`
- **Captured values are passed to view as keyword arguments**
  - `def some_view(request, pk)`
- **URL tag can also pass arguments to views**
  - `{% url 'tictactoe_accept_invitation' pk=inv.id %}`

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