

Un gran poder conlleva una gran responsabilidad

html forms

Python/Flask

Last talk that doesn't involve databases

Good news:

Lots of people who know stuff
in this class. (ask here or post
on piazza)

Schedule

- ❖ today: flask & forms
- ❖ next class: flask and postgresSQL
- ❖ next Tuesday: RAT
- ❖ next Thursday: 1st Lightning round (need access to secure network and good familiarity w/ postgres).

UMW Alien Abduction Research Centre

Welcome to the Alien Abduction Research Centre at the [University of Mary Washington](#)



Fighting by the UMW Research Team near Area 51

Latest News

Alien Base on Moon

January 21st, 2014

A mysterious object in a 90 degree angle featuring seven lighted dots has been spotted on the Moon's surface.

[Read more](#)

Useful Links

[UFO Casebook](#)

[Alien UFO](#)

[George Noory](#)

[Open SETI](#)

git clone <https://github.com/zacharski/AlienAbductions2.git>

Alien Abduction

Code disponible par courrier git

forms

Report an Abduction

First Name	<input type="text"/>
Last Name	<input type="text"/>
Date Abducted	<input type="text" value="1"/> <input type="text" value="1"/> <input type="text" value="2011"/>
Location (city)	<input type="text"/> <input type="text" value="AL"/>
How Scary?	not scary <input type="range" value="50"/> scary
Appearance	
<input type="checkbox"/> bald	<input type="checkbox"/> almond eyes
<input type="checkbox"/> blue	<input type="checkbox"/> long fingers
<input type="button" value="Report Abduction"/>	

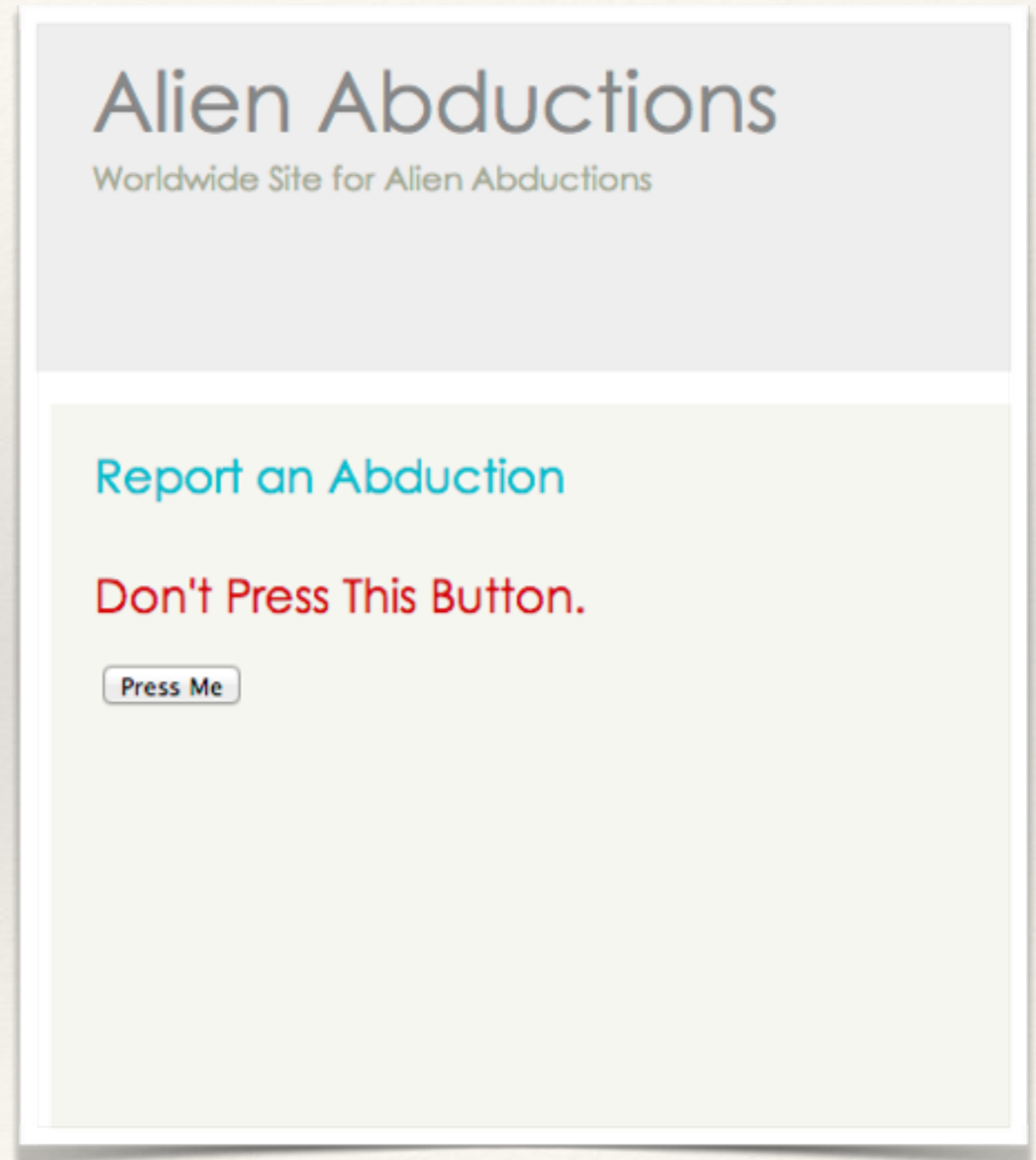
Esto es fácil.

This is easy

But here is an even simpler
example...

One 'submit' button

- ❖ The world's simplest form ...



The image shows a screenshot of a web page for 'Alien Abductions'. The page has a light gray header with the title 'Alien Abductions' and the subtitle 'Worldwide Site for Alien Abductions'. Below the header is a light green section containing the text 'Report an Abduction' in blue, followed by 'Don't Press This Button.' in red. At the bottom of this section is a single button labeled 'Press Me'.

и резултат

and the result

and now the code behind the magic...

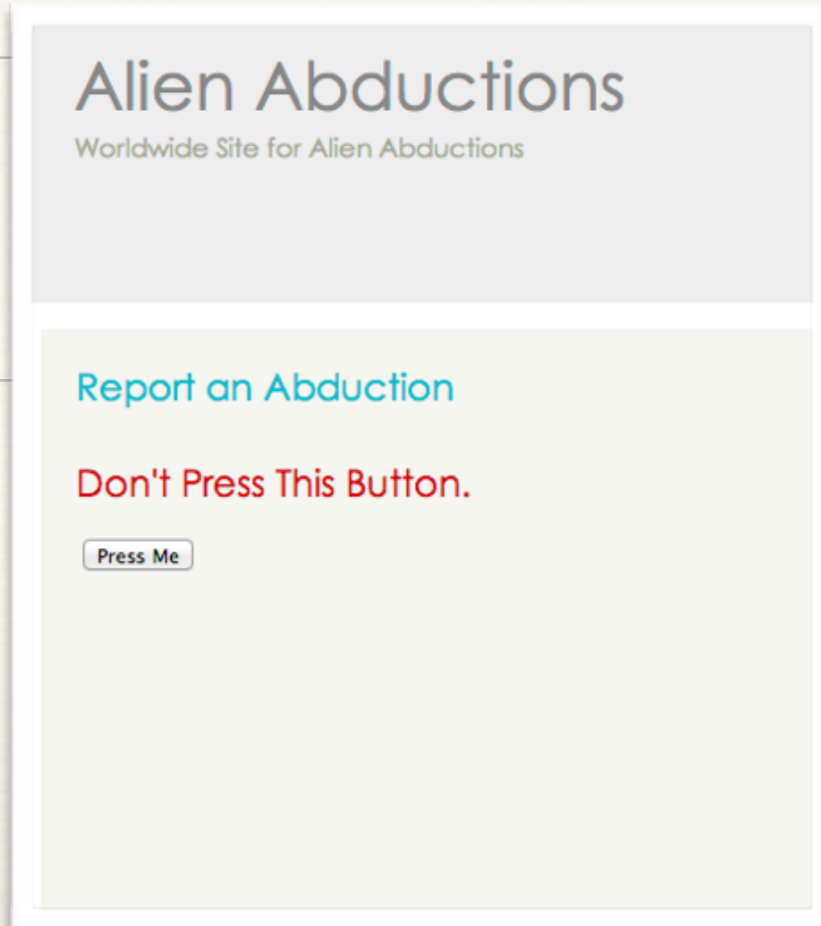
Alien Abductions

Worldwide Site for Alien Abductions

[Report an Abduction](#)

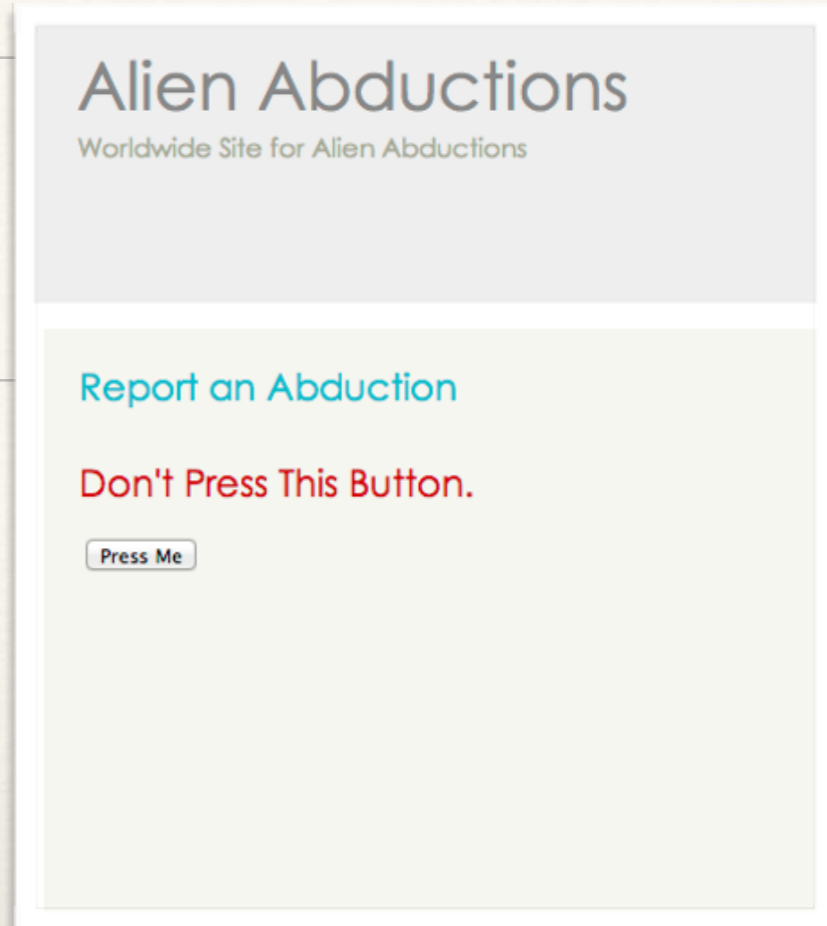
Thanks for pressing that button!

The code ...



```
<form method = "post" action = "/simple2">
  <h2> Don't Press This Button.</h2>
  <p>
    <input type="submit" value="Press Me" />
  </p>
</form>
```

The code ...



```
<form method = "post" action = "/simple2">
  <h2> Don't Press This Button.</h2>
  <p>
    <input type="submit" value="Press Me" />
  </p>
</form>
```

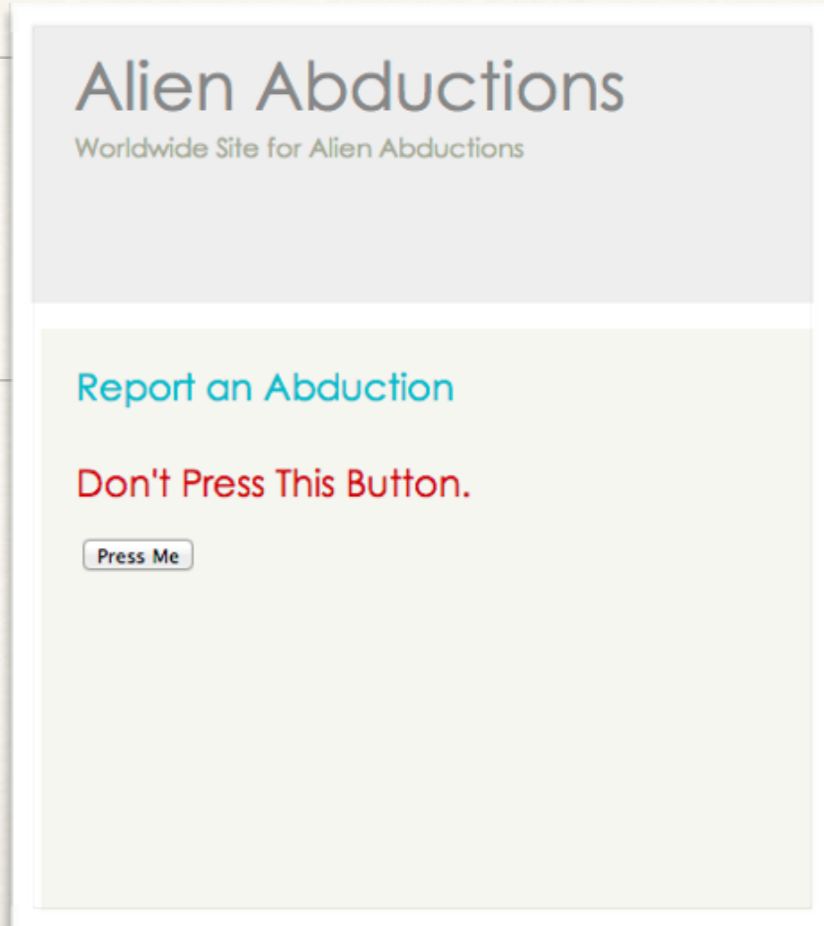
<form

- ❖ `method="get"`: data limited to 256 characters; not secure
- ❖ `method="post"`: unlimited data; more secure

From the HTML specs

- ❖ If the processing of a form is idempotent (i.e. it has no lasting observable effect on the state of the world), then the form method should be GET. Many database searches have no visible side-effects and make ideal applications of query forms.
- ❖ If the service associated with the processing of a form has side effects (for example, modification of a database or subscription to a service), the method should be POST.

The code ...



```
<form method = "post" action = "/simple2">
  <h2> Don't Press This Button.</h2>
  <p>
    <input type="submit" value="Press Me" />
  </p>
</form>
```

nitrous.io

and the result

```
@app.route('/simple2', methods= ['POST'])
def simple2():
    return render_template('simple2.html')
```

Alien Abductions

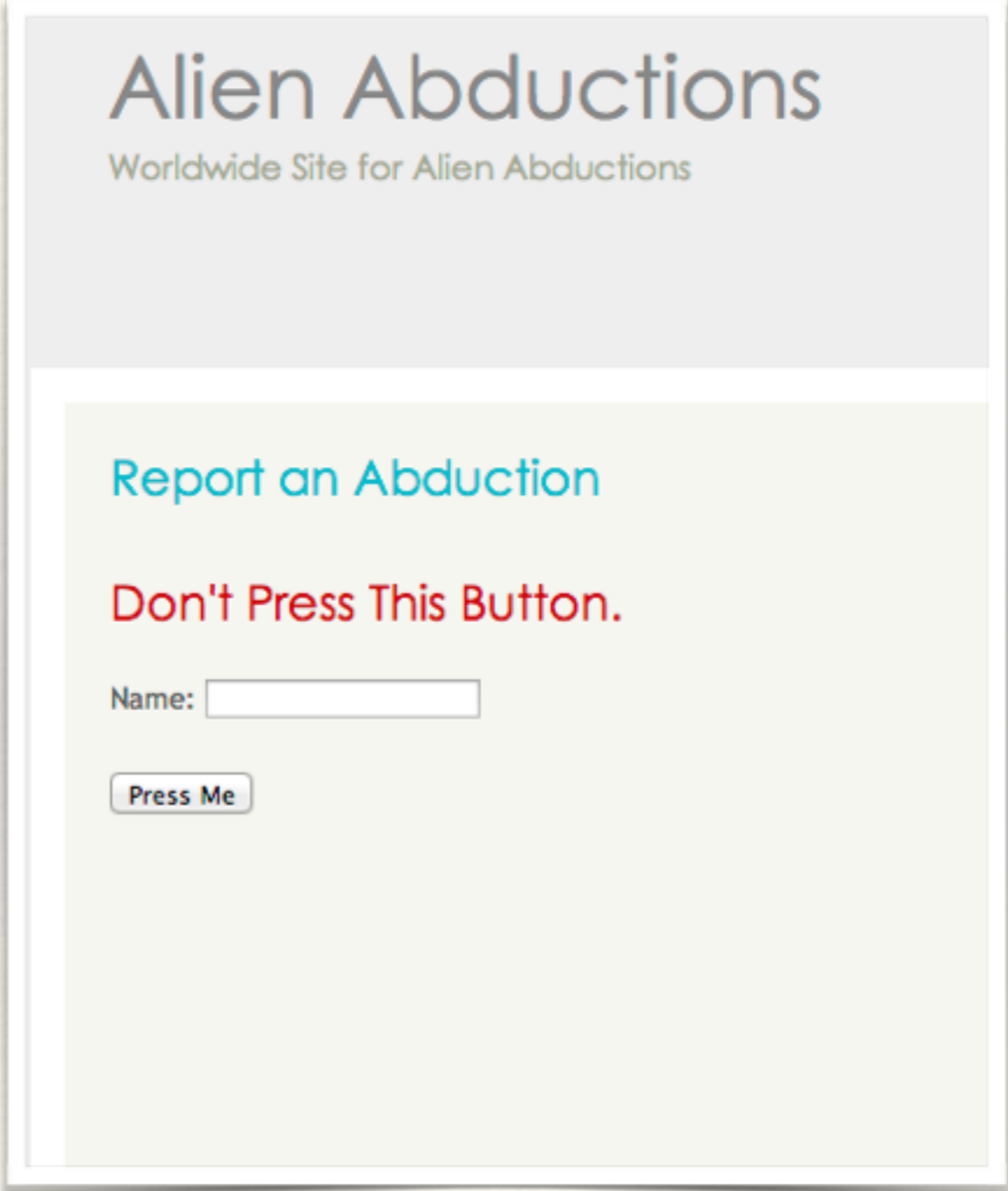
Worldwide Site for Alien Abductions

[Report an Abduction](#)

Thanks for pressing that button!

The world's second simplest form

- ❖ Wow. A web page that allows for user input. How novel!



Alien Abductions
Worldwide Site for Alien Abductions

Report an Abduction

Don't Press This Button.

Name:

The method so far

```
<form method = "post" action = "/something">
```

```
...
```

```
<input type="submit" value="text on button" />
```

```
</form>
```



```
<form method = "post" action = "/simple4">
  <h2> Don't Press This Button.</h2>
  <p>Name:
  <input type="text" id="someName" name="name" />
  </p>
  <p>
  <input type="submit" value="Press Me" />
  </p>
</form>
```

When a user presses the submit button where does she go?

```
<input type="text" id="someName" name="name" />
```

create a text input box

*name used by server when
this form is submitted*

*unique identifier for this html
element (used client side)*

Lorem Ipsum Dolor

forms

```
<input type="number"
name="day"
min="1"
max="31"
step="1"
value="1"
size="3"/>
```

Report an Abduction

First Name	<input type="text"/>
Last Name	<input type="text"/>
Date Abducted	<input type="text" value="1"/> <input type="text" value="1"/> <input type="text" value="2011"/>
Location (city)	<input type="text"/> <input type="text" value="AL"/>
How Scary?	not scary <input type="range" value="50"/> scary
Appearance	
<input type="checkbox"/> bald	<input type="checkbox"/> almond eyes
<input type="checkbox"/> blue	<input type="checkbox"/> long fingers
<input type="button" value="Report Abduction"/>	

Lorem Ipsum Dolor

checkboxes

```
<input type="checkbox"
name="bald" value="checked" />
```

Python

```
print(request.form['bald'])
'checked'
```



The image shows a web form titled "Report an Abduction". The form is structured as follows:

- First Name:** A text input field with a small icon on the right.
- Last Name:** A text input field.
- Date Abducted:** Three dropdown menus for day, month, and year, showing values 1, 1, and 2011 respectively.
- Location (city):** A text input field followed by a dropdown menu showing "AL".
- How Scary?:** A range slider with "not scary" on the left and "scary" on the right, with a slider knob in the middle.
- Appearance:** A section containing four checkboxes:
 - bald
 - blue
 - almond eyes
 - long fingers
- Submit:** A button labeled "Report Abduction".

checkboxes

```
<tr><td>Appearance</td><td>&nbsp;</td></tr>
<tr><td><input type="checkbox" name="appearance" value="bald" />
bald</td>

<td><input type="checkbox" name="appearance" value="almond eyes" />
almond eyes</td></tr>

<tr><td><input type="checkbox" name="appearance" value="blue" />
blue</td>
<td><input type="checkbox" name="appearance" value="fingers" /> long
fingers</td></tr>
```

```
print(request.form.getlist('appearance'))
'checked'
```

checkboxes

<input checked="" type="checkbox"/> bald	<input checked="" type="checkbox"/> almond eyes
<input checked="" type="checkbox"/> blue	<input checked="" type="checkbox"/> long fingers
<input type="button" value="Report Abduction"/>	

```
print(request.form.getlist('appearance'))  
[u'bald', u'almond eyes', u'blue', u'fingers']
```

Your task (in a team)

- ❖ clone the alien abduction repository
- ❖ get all values to display on the report2 page
- ❖ add additional input field for extra xp
- ❖ the more people that demo in a team, the more xp.