VALIDATION WITH FORMENCODE

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A little guide..

What in the world are validators?

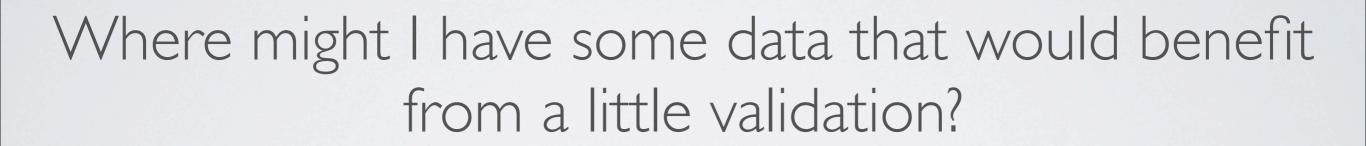
Why should I be using them?

from formencode import validators

What in the world are validators?

Validators check for syntactical correctness.

(shameless lift from wikipedia)



FORMS!

email address
phone number
name
password
etc.

Why should I use validators? (a quick study)

HP LaserJet P2035 Printer	
Serial Number: *	1234567890 » How do I find my product serial number?
Purchase date: *	December
Purchase location:	Select One ‡
Personal Information	
First Name: *	a3gh
Last Name: *	heymom
E-mail Address: *	wutchadoin@123@456.fancy
Address:	
City:	d6s78ajjjjjj;
State:	Kansas ‡
Zip Code:	aaaaa –
Phone Number:	(345) fhj – j111

Future dates cannot be entered. Invalid format for email address. Invalid zipcode format has been entered.

...so I tended to their complaints.

```
# date in the past
# properly formatted email with a bogus domain
# zipcode | | | | | (which doesn't exist)
```

Registration success!

a3gh, thank you for registering your product! We will e-mail you a cop We recommend that you save the e-mail, and use it to create or access y

Product name: HP LaserJet P2035 Printer

Model name: CE461A

Serial number: 1234567890

Don't trust user input!



formencode.org

```
# A lot of validators
# Internal vs. External data
# to_python()
```

```
>>> import formencode
>>> from formencode import validators
```

Basic Validators

```
### Bool
>>> from formencode import validators as v
>>> v.Bool.to_python(0)
False
>>> v.Bool.to_python(True)
True
>>> v.Bool.to_python(None)
False
>>> v.Bool.to_python(''')
False
```

```
### Strings
>>> v.String().to_python('I\'d be crazy not to follow')
"I'd be crazy not to follow"
>>> v.String(max=10).to_python('Follow where you lead')
Traceback (most recent call last):
...
formencode.api.Invalid: Enter a value less than 10 characters long
>>> v.String(max=10).to_python('Your eyes')
'Your eyes'
```

Basic Validators

```
### Dates
>>> d = v.DateValidator(earliest_date=datetime(2009, 4, 22))
>>> d.to_python(datetime(2010, 7, 11))
datetime.datetime(2010, 7, 11, 0, 0)
>>> d.to_python(datetime(2005, 7, 11))
Traceback (most recent call last):
...
formencode.api.Invalid: Date must be after Wednesday, 22 April 2009
```

```
### Email addresses
>>> v.Email().to_python('karl@monetate.com')
'karl@monetate.com'
>>> v.Email().to_python('karlmonetate')
Traceback (most recent call last):
...
formencode.api.Invalid: An email address must contain a single @
```

Other interesting validators...

```
# RequireIfMissing()
# CreditCardValidator()
# IPAddress()
# URL()
```

Simple Form Schema

Simple Password Schema

Validators...

Straightforward to implement Yield tasty results

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