## Idea presentations

- 2 min
- Who's doing it?
- What's the idea?
- What tech will you need to use?

### Review

- make a variable called 'name' containing your name
- make a variable called 'age' containing your age
- make Ruby print a sentence describing how old you will be next year. For example:

"In 1 year Charlie will be 12."

Hint: use the form

"In #{years} year #{name} will be..."

## Loops / Iteration

 make Ruby print one sentence for each of the next 25 years, describing how old you will be in each year. For example:

"In 1 years Charlie will be 12."

"In 2 years Charlie will be 13."

"In 3 years Charlie will be 14."

(etc.)

# One way

```
1    name = "Charlie"
2    age = 10
3    years = 1
4
5    until years == 20
6    puts "In #{years} years #{name} will be #{age + years} years old."
8    years+=1
9    end
```

## Another way

```
11    name = "Charlie"
12    age = 10
13    years = 1
14
15    1.upto(25) {|i|
16        puts "In #{i} years #{name} will be #{i + age} years old."
17    }
```

# (Side by side)

```
name = "Charlie"
    age = 10
    years = 1
    until years == 20
6
7
        puts "In #{years} years #{name} will be #{age + years} years old."
8
        years+=1
    end
   name = "Charlie"
11
12
   age = 10
13
    years = 1
14
15 1.upto(25) {|i|
        puts "In #{i} years #{name} will be #{i + age} years old."
16
17
```

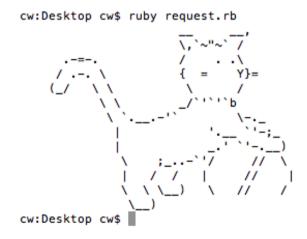
# Networking

```
require 'open-uri'

kittens = open("http://placekitten.com/")

body = kittens.read[559, 441]

puts body
```



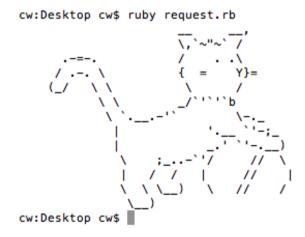
# Networking

```
require 'open-uri'

kittens = open("http://placekitten.com/")

body = kittens.read[559, 441]

puts body
puts body.status
```





404. That's an error.

The requested URL /foo.html was not found on this server. That's all we know.



Server response codes:

#### 1xx:

"Got it! I'm working on your request."

#### **2xx**:

"OK!"

#### 3xx:

"I can do what you want, but I have to do something else first." i.e. redirect

#### **4xx**:

"You screwed up." (i.e. the client/user)

#### 5xx:

"We screwed up." (i.e. the server)

### Let's make a server

gem install sinatra gem install rack-test

git clone <a href="https://github.com/code61/sinatra\_c3s1.git">https://github.com/code61/sinatra\_c3s1.git</a>

(if 'gem install' makes your computer angry, try 'sudo gem install')

### Heroku

- Gives you a server 'in the cloud'
- Automagically manages zillions of tiny bits of software that you'd otherwise have to download and set up yourself
- Free until you want to do fancy things
- This setup is known either as
  - Back-end as a Service (BaaS), or
  - Platform as a Service (PaaS)

(You can use these acronyms to impress people.)

# Getting started

- Google 'heroku ruby'
- or go here:

https://devcenter.heroku.com/articles/getting-started-with-ruby#introduction