

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    |
7    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)

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

```
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 }
```

Networking

```
1  require 'open-uri'
2
3  kittens = open("http://placekitten.com/")
4
5  body = kittens.read[559, 441]
6
7  puts body
8
```

```
cw:Desktop cw$ ruby request.rb
```



```
cw:Desktop cw$
```

Networking

```
1  require 'open-uri'
2
3  kittens = open("http://placekitten.com/")
4
5  body = kittens.read[559, 441]
6
7  puts body
8  puts body.status
9
```

```
cw:Desktop cw$ ruby request.rb
```



```
cw:Desktop cw$
```




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 https://github.com/code61/sinatra\_c3s1.git
```

(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>