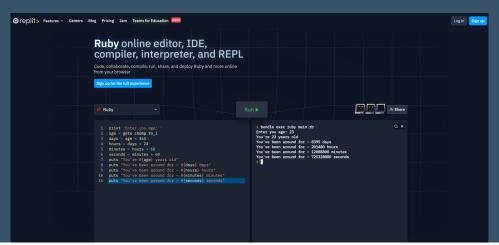
Ruby 1/2 - TD

- Ruby recap
- you can use stack overflow / google, use it
- launch the VM
- launch Sublime Editor
- launch a terminal
 - using irb
 - → huguesX irb
 irb(main):001:0> puts "Hello, world!"
 Hello, world!
 => nil
 irb(main):002:0> exit
 → hugues X
 - using a file
 - → hugues X vim td.rb
 - → hugues *X* ruby td.rb Hello, world
- alternatively, use an online ruby interpreter -> https://replit.com/ languages/ruby



```
hugues@me:-/Developer/babylist-web

* bobylist-web git:(netsuite-update-assets-account) / irb
irb(main):001:0> puts "Hello, world!"
Hello, world!

* bobylist-web git:(netsuite-update-assets-account) / vim test.rb

* bobylist-web git:(netsuite-update-assets-account) / ruby test.rb
Hello, world

* bobylist-web git:(netsuite-update-assets-account) / Ill

* bobylist-web git:(netsuite-update-asse
```

User age

Display some information about the user age

- gets **Kernel** method (ie.: available from anywhere) prompt user for input and return a String
 - https://www.rubydoc.info/stdlib/core/ Kernel:gets
- chomp is a **String** method which remove any extra white space
 - https://www.rubydoc.info/stdlib/core/ String#chomp-instance_method
- to_i is a **String** (and other class) method, which attempt to convert the string to an integer (or return o)
 - https://www.rubydoc.info/stdlib/core/String#toiinstancemethod

Enter you age: 21 You're 21 years old

You've been around for ~ 7665 days You've been around for ~ 183960 hours You've been around for ~ 11037600 minutes You've been around for ~ 662256000 seconds

```
print 'Enter you age: '
age = gets.chomp.to_i
days = age * 365
hours = days * 24
minutes = hours * 60
seconds = minutes * 60
puts "You're #{age} years old"
puts "You've been around for ~ #{days} days"
puts "You've been around for ~ #{hours} hours"
puts "You've been around for ~ #{minutes} minutes"
puts "You've been around for ~ #{seconds} seconds"
```

Guess the number

The user has 6 attempts to guess a (random) number between 0 and 100, on each attempt tell the user is the number is greater or lower

- while loop or for in loop
- rand(max) is a **Kernel** method which return a number between o and max
 - https://www.rubydoc.info/stdlib/ core/Kernel#randinstance_method

Enter a number between 0 and 100? 50 too low, 5 attempts left
Enter a number between 0 and 100? 75 too big, 4 attempts left
Enter a number between 0 and 100? 62 too big, 3 attempts left
Enter a number between 0 and 100? 55 too low, 2 attempts left
Enter a number between 0 and 100? 59 too low, 1 attempts left
Enter a number between 0 and 100? 61 you lost, the number was 60

```
i = 5
number = rand(100)
while i \ge 0
  print 'Enter a number between 0 and 100? '
  guess = gets.chomp.to_i
  case
  when number == guess
    puts 'you won!'
    break
  when guess > number
    puts "too big, #{i} attempts left"
  when guess < number
    puts "too low, #{i} attempts left"
  end
  i -= 1
end
puts "you lost, the number was #{number}" if i <= 0
```

Guess the user age

Given the following function (note the :)

```
require 'json'
require 'net/http'

def age(firstname)
  raise 'Missing name' unless firstname
  url = "https://api.agify.io/?name=#{firstname}"
  response = {
        "name" => "hugues",
        "age"=> 49,
        "count"=> 4421
  }
  pp response
  response['age']
```

Prompt for user first name and display his age

What's your name? hugues You're probably ~49 years old

```
puts "What's your name?"
name = gets.chomp()
age = age(firstname: name)
puts "You're probably ~#{age} years old"
```

Slack API parsing

Given the following method

```
require 'uri'
require 'net/http'
def get_conversations
 uri = URI('https://slack.com/api/conversations.list?limit=50')
 req = Net::HTTP::Get.new(uri)
 req['Authorization'] = "Bearer xoxp-2486113197334-2492860403907-2492926538098-76ac2d6b0dcc5d6a24b3c72889355468"
 res = Net::HTTP.start(uri.hostname, uri.port, use_ssl: true) { |http| http.request(req) }
 response = res.body
 JSON.parse(response)['channels']
end
conversations = get_conversations
puts conversations.inspect
# => [{}, {}, ...]
puts "first conversation id: #{conversations[0]['id']}"
# => first conversation id: C02E24403SB
```

Return the number of conversations

— https://www.rubydoc.info/ stdlib/core/Array#countinstance_method 4 conversations

```
conversations = get_conversations
puts "#{conversations.count} conversations"
# => 4 conversations
```

Display the name of each conversations and it's creation date

- for each
- Time.at(epoc) is a method which take an epoc (seconds since Jan 11970) -- (created is an epoc)
 - https://www.rubydoc.info/ stdlib/core/Time.at

general created at 2021-09-15 10:08:55 +0200 http created at 2021-09-15 10:12:33 +0200 random created at 2021-09-15 10:08:55 +0200 test created at 2021-09-17 14:09:59 +0200

```
conversations = get_conversations
for conversation in conversations
  puts "#{conversation['name']} created at #{Time.at(conversation['created'])}"
end
```

Define a method to grab the list of messages for a conversations

To grab a list of messages "https://slack.com/api/conversations.history?

limit=50&channel=CHANNEL ID"

```
def get_messages(channel_id)
    # do something
```

```
get_messages('C02E24403SB')
# => [{}, {}, ...]
```

```
require 'uri'
require 'net/http'

def get_messages(channel_id)
    uri = URI("https://slack.com/api/conversations.history?limit=50&channel=#{channel_id}")
    req = Net::HTTP::Get.new(uri)
    req['Authorization'] = "Bearer xoxp-2486113197334-2492860403907-2492926538098-76ac2d6b0dcc5d6a24b3c72889355468"
    res = Net::HTTP.start(uri.hostname, uri.port, use_ssl: true) {|http| http.request(req) }
    response = res.body
    JSON.parse(response)['messages']
end
```

For each channel, get the messages and display the first 3

— for in

```
fetching messages of C02E24403SB
Hi
desoler gael first
 :wave: coucou grp2
fetching messages of C02EDRBMZPX
:wave: Hi everyone!
dsdf
dfsfds
fetching messages of C02EGRBFMRQ
Hi!
:rire:okkkkk
fetching messages of C02ETGJE76F
:wave: Hi everyone!
:wave: Hi everyone!
:wave: Hi everyone!
```

```
for conversation in conversations
  conversation_id = conversation['id']
  puts "fetching messages of #{conversation_id}"
  messages = get_messages(conversation_id)
  count = 0
  for message in messages
    puts message['text']
    count += 1
    break if count >= 3
  end
 puts ""
end
```

Run a loop which ask for a conversation id and display all messages, break if user enter exit

- loop doorwhile true
- break

```
conversation id? C02E24403SB
Hi
  desoler gael first
  :wave: coucou grp2
:wave: hello!
:wave: Hi everyone!
:wave: Hi everyone!
aaa
...
<@U02EGRABVSP> has joined the channel
conversation id? exit
=> nil
```

```
while true
  print 'conversation id? '
  conversation_id = gets.chomp
  break if conversation_id == 'exit'

messages = get_messages(conversation_id)
  puts messages.map { |m| m['text'] }.join("\n")
end
```

Make this loop return inform if the conversation id is invalid

— get_messages should return
nil if the conversation is
invalid

conversation id? 123
this conversation does not exist?
conversation id? exit
=> nil

```
while true
  print 'conversation id? '
  conversation_id = gets.chomp
  break if conversation_id == 'exit'
  messages = get_messages(conversation_id)
  if messages
    puts messages.map { | m | m['text'] }.join("\n")
  else
    puts "this conversation does not exist?"
  end
end
```