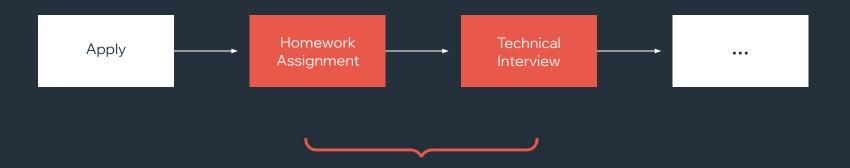
Wix Grow

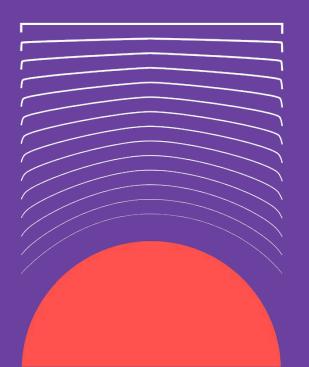
Technical Parts

What does this cover?



for mobile, front-end, back-end

Some Context



Teams in Vilnius

MFB

Loyalty

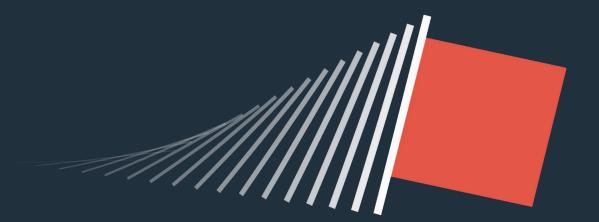
Frog	MFB	Pricing Plans	MFB	Spartans	MFB
Events	MFB	Invoices	MFB	Components	MFB
Forum	MFB	Wix Emails	MFB	DevEx	MFB
Members	MFB	Wix Data	MFB	Scala FW	MFB

FB

CTOO

The Guilds

- Front-end
- Back-end
- Mobile



Technologies we use (plus more)

Mobile





Front-end



React







Back-end













Allowed languages for home assignments

Mobile







Front-end









Back-end

E Scala







K Kotlin



apython



... and any "front-end" language

and any "modern" language

Important Practices

(which we follow)

- Test everything
- Automate everything
- Simple over "smart"
- Designing for code reusability

...it all boils down to: we have a big system to maintain.

Programming Skills

- OK not to know much.
- OK not to have design skills.
- BUT what you do use, you should know well.
- Programming fundamentals and practices!

Learning

- OK not to be learning 24/7.
- OK not to have side-projects.
- OK not to have special interests.

We just want you be actively improving:

- Looking for opportunities.
- Willing to face roadblocks.
- Be very collaborative!

Communication

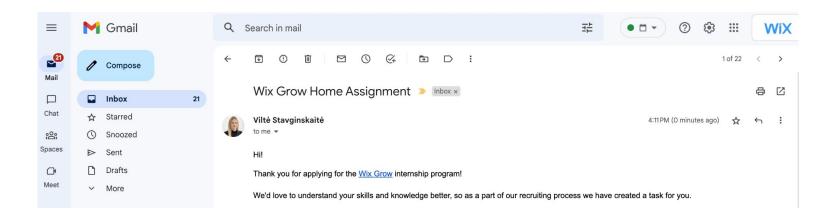
- Not the same as being extravert!
- You should freely communicate your ideas.
- Asking questions is part of "communication".
- One hard requirement: being comfortable communicating in English.

Homework Assignment



Task via Email

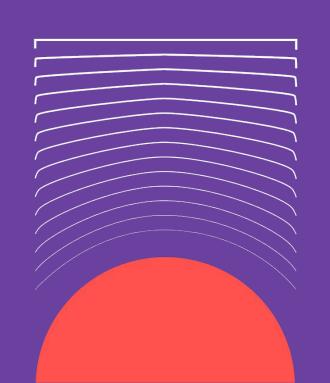
It is important, do not delete or ignore it!



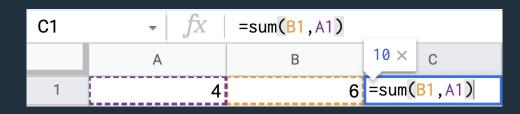
Problem Definition

Full instructions

View



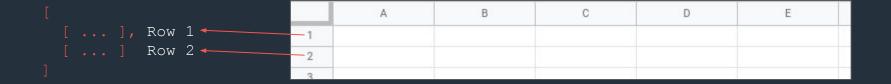
Spreadsheet Evaluator



Take spreadsheet, compute values.



What is a spreadsheet?



What is a spreadsheet?

```
[
    A1, B1, C1
],
[
    A2, B2, C2
]
```

	А	В	С	D	Е
1					
2					
3					

A1 Notation

A 1

Column Row

What is a spreadsheet?

```
[

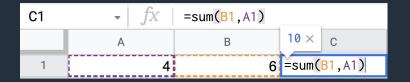
4, A1

6, B1

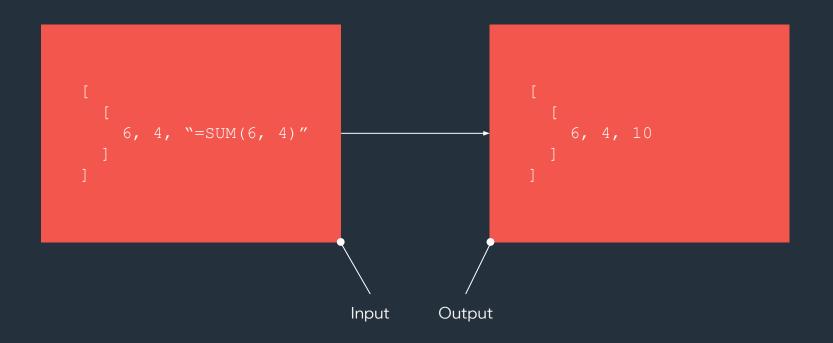
"=SUM(A1, B1)"

],

[ ... ]
```



Core of the task



Cells

Value

Number

Text

Boolean

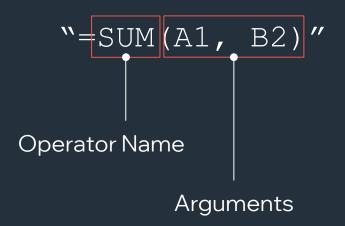
- Error
- Formula *only in input

```
123,
'abc'
true
```

```
"#ERROR: ..."
```

```
"=MULTIPLY(...)"
```

Formulas



Possible Value Types

Formulas

Exceptions

```
{ "formula": { "value": { "number": 123 } } } 
 { "formula": { "value": { "text": "abc" } } } 
 { "formula": { "value": { "boolean": false } } } 
 { "formula": { "error": "Banana" } } 
 { "formula": { "reference": "A1" } }
```

Leaf Operators

Formulas Things can get more complicated...

=SUM(A1, B1)

=SUM(6, 4)

=SUM(A1, 4)

=CONCAT(A1, B1)

=CONCAT(6, true)

=CONCAT("ab", "cd")

=SUM(6, SUM(6, 4))

=SUM(A1, SUM(6, 4))

=CONCAT(SUM(6, 4), "a")

Formulas: Operators

=SUM

=MULTIPLY

=DIVIDE

=GT

=LT

=EQ

=NOT

=AND

=OR

=IF

=CONCAT

Plan Ahead

01

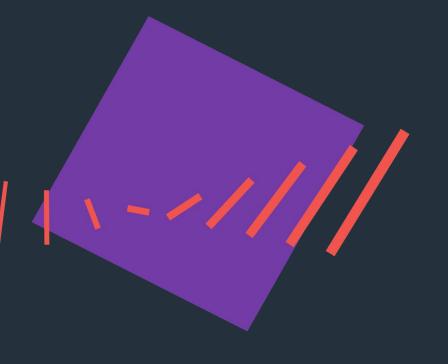
How are references going to be resolved?

02

How to handle errors?

Assume something is not going to work and you'll have to figure it out.

There's more!

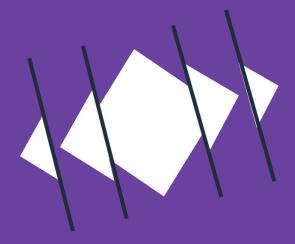


"The hub"

Your application is "a worker"

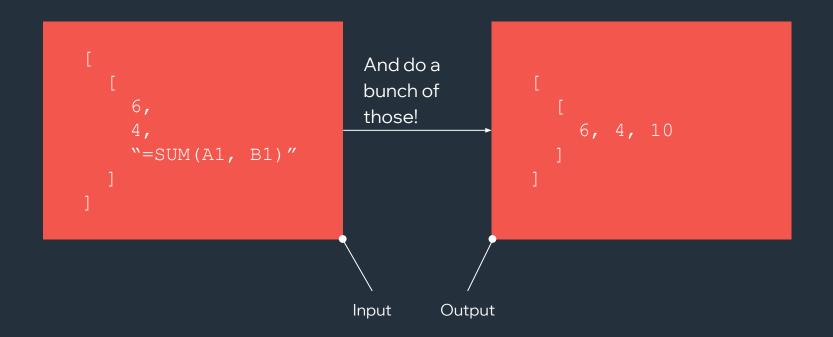


Hub App Hub App



Making the HTTP requests is part of your application!

Core of the task



Getting Jobs

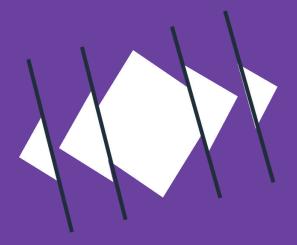
Posting Jobs

```
POST <url_you_got_previously>
```

This is where it goes

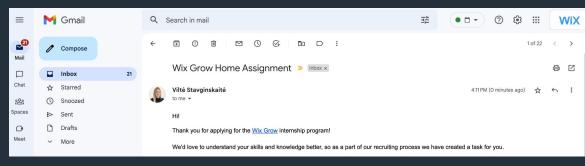
Success / Failure

```
"error": "invalid job-2 result: invalid cell B1: content does not match"
```



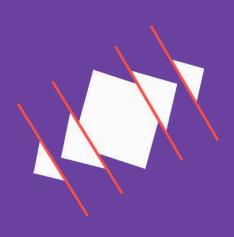
You can use hub as much as you want. Submitting jobs multiple times has no penalty!

Tech Support





Definition of "Done"



•••

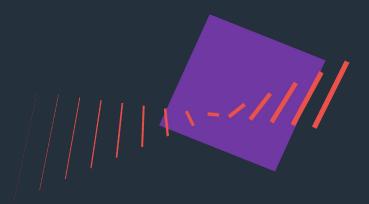
01

Job results are accepted (see the response)

02

You are happy with the code

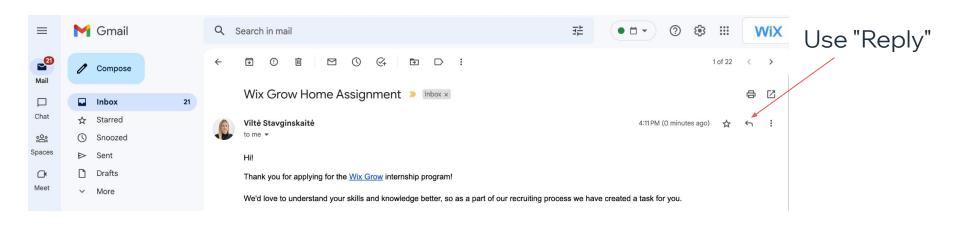
Side-note



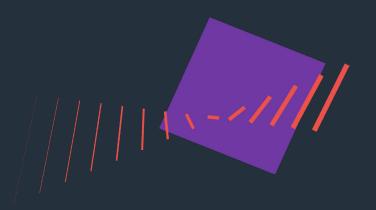
• 3rd parties allowed

Submitting Code

- ZIP it, upload to our site and sent download url by replying to instructions email!
- Clean it up before ZIPing. Only the source code!
- Add passcode hashcode in the email!



Evaluation

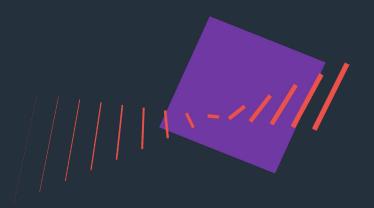


- Passcode is correct?
- Requirements satisfied?
- Readable code?
- Code structure?
- Simple design?

Technical Interview

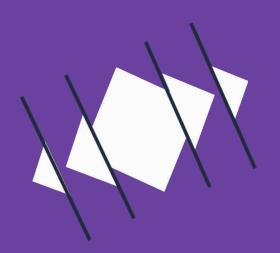


What's going to happen?



- Will talk a little about you.
- Will talk a little about Wix.
- Will do some live coding.

What do we expect?



- You can write code.
- You can reason about your code.
- You can express your ideas.
- You know what you are doing.
- You can solve basic problems

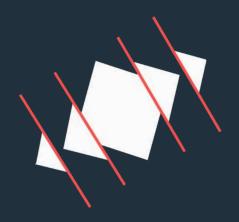
What should you expect?



- Not to know all the answers.
 - \circ OK to use your own words.
 - OK to "think through" the answer.
- Be asked obvious questions.
- Be asked stupid questions.

Stay Calm Keep Talking





No detailed feedback :(



Let's move on to Q&A