Functional Programming

Introduction to module

Produced

by:

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Agenda

Why Functional Programming

Overview of course

Overview of Assessment

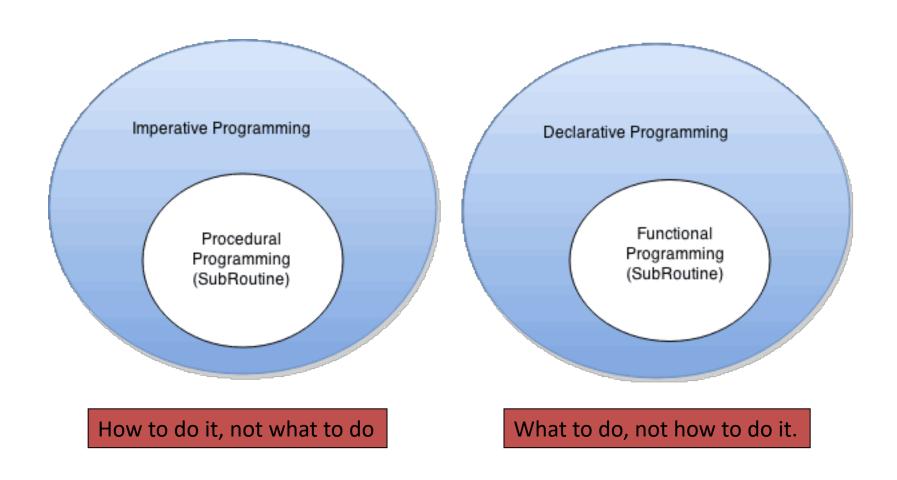
Why Functional Programming

• A different way to think and think about programming and solving problems.

A great way to get good at recursion

•A lot of companies are using it...

What's different from what you've seen



What's different from what you've seen

Explain to your friend: What is an orange peanut?

(He only knows brown peanuts)

Imperative

How to do it, not what to do

That brown peanut you have: Paint it orange.
That's what an orange peanut is.

Functional

What to do, not how to do it.

That brown peanut that you have: If you had another peanut that's just like it in every way except that it's orange.

That's what an orange peanut is.

Differences

Imperative

Functional

Loops

No loops!!!

Variables – use them for e.g. accumulating values

Variables cannot be changed (immutability)

If [condition]
then [command]
else [command]

If [condition] then [value] else [value]

More later

So how will we approach this module?

- 14 weeks (12 weeks of tuition)
- 4 hours per week
- · Each topic will have associated with it:
 - Lecture/s
 - Labs
- Each hour contact where we have either
 - lecture OR
 - Labs practising :
 - Techniques we have seen in lectures
 - Going through pre-defined sets of exercises online.



Breakdown of Assessment

SEMESTER 8		M	Т	W	Т	F				
JAN	WEEK						JAN	Formative Assignment	Summative Assignment	Weight
	1	15	16	17	18	19				
	2	22	26	27	28	28				
FEB	3	29	1	2	3	4	FEB			
	4	5	6	7	8	9			ghci in-class	5%
READIN	G						READING			
	5	19	20	21	15	16				
MAR	6	26	27	28	29	1	MAR			
	7	4	5	6	7	8			Stack in-class lab test	5%
	8	11	12	13	14	15				
	9	18	19	20	21	22		First phase of Programming Assignment		
APR	EASTER 1	25	26	27	28	29	APR	Assignment	Assignment	40%
	EASTER 2	1	2	3	4	5	7411		J	
	10	8	9	10	11	12				
	11	15	16	17	18	19				
	12	22	23	1	2	2				
	READING	29	30	31	32					
MAY	READING	5	6	7	8		MAY		Final Exam	50%

Ethos of Module

• Practice, practice, practice,



Engagement - ask questions,



Work submitted must be your own,

Help me to help you.

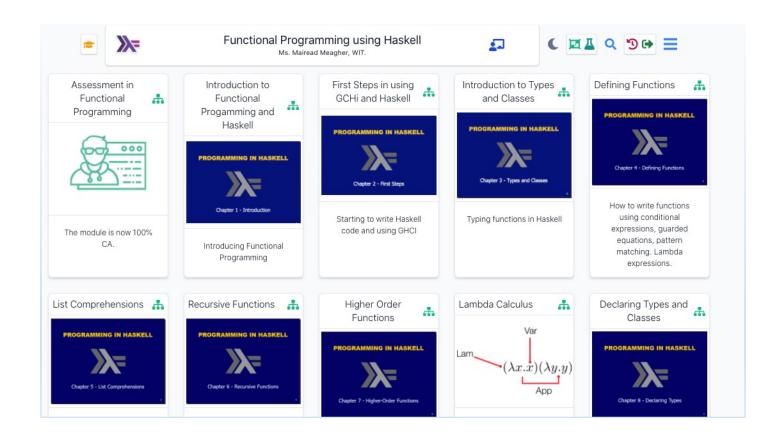


Brief Overview of Course

We will use

- Moodle used for linking the current week's content to the appropriate topic from the tutors course
- Tutors (where course material is curated)
- Slack for communication within the group and to me. This will be the main channel for communication

Brief Overview of Course - tutors



https://tutors.dev/course/fun-prog-24

Any questions?

Contact Me



Preferably the Slack channel

Or

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