Department of Computer Science

COS333 - Programming Languages

Research Questions Report

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1 Esoteric programming language · Question 1

1.1 Explanation

An esoteric programming language (or esolang) is a computer programming language that is not designed to offer an efficient or elegant solution to computational problems but to explore the basic ideas behind computation theory or have fun and create a completely unique programming language. [1] [2]

2 Categories · Question 2

2.1 Funges

2.1.1 Advantages

2.1.2 Disadvantages

2.2 Stateful encoding lamguages

2.2.1 Advantages

2.2.2 Disadvantages

3 Chosen languages · Question 3

3.1 Chef

3.1.1 Description

3.1.2 Code Snippet

3.2 Language 2

3.2.1 Description

3.2.2 Code Snippet

4 Design by Contract · Question 4

4.1 Explanation

4.2 Language Support

- Effiel [3]
- Racket [4]

References

[1] Donald Knuth. Knuth: Computers and typesetting.

[2] Donald Knuth. Knuth: Computers and typesetting.

[3] James McGovern. Design by contract.

[4] the Racket Team. Contracts.