

# Royal Bihar Coders

## Free Bootcamp | Basics of Programming

By Uttam

Pre Autumn Fall  
January, 2021



# Basics of Programming

## Wave 1: Programming Language

• 3rd January

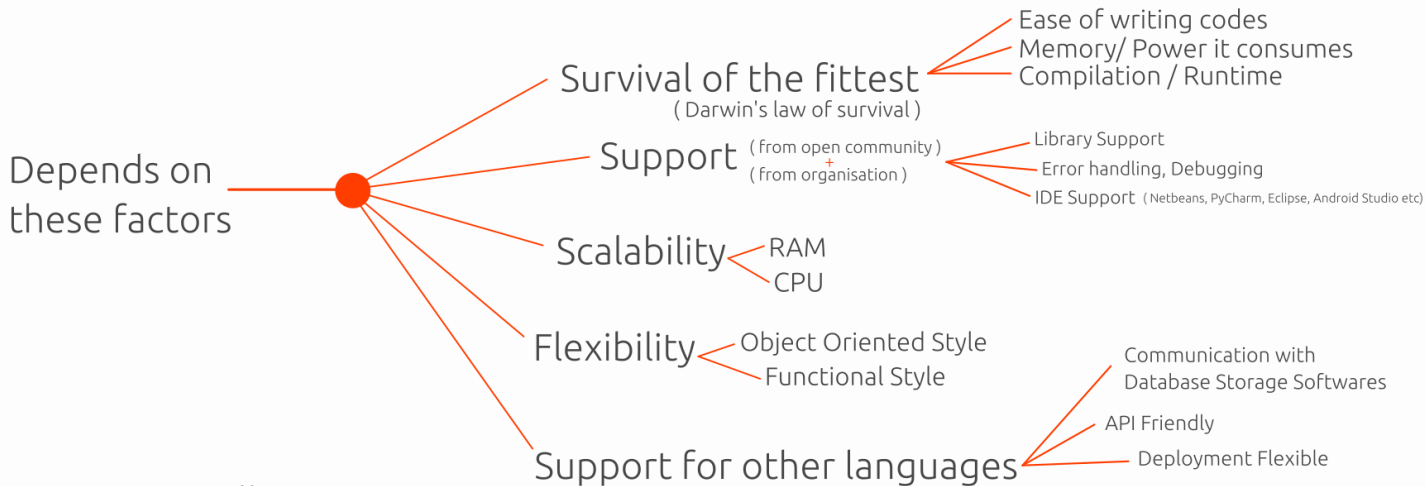
1. Life span of a programming language
2. Mistakes I have made
3. Learning Curve - Is it hard or is it easy?
4. Common in every programming language.
5. Difference - A glimpse to optimisation.
6. Algorithms - Do we really need to start with them?
7. Which programming language? - The Biggest Question.
8. Home Work

# Basics of Programming

## Wave 1: Programming Language

• 3rd January

### 🎤 Life Span of a programming language



# Basics of Programming

## Wave 1: Programming Language

• 3rd January

🗣 Mistakes I made in early phase

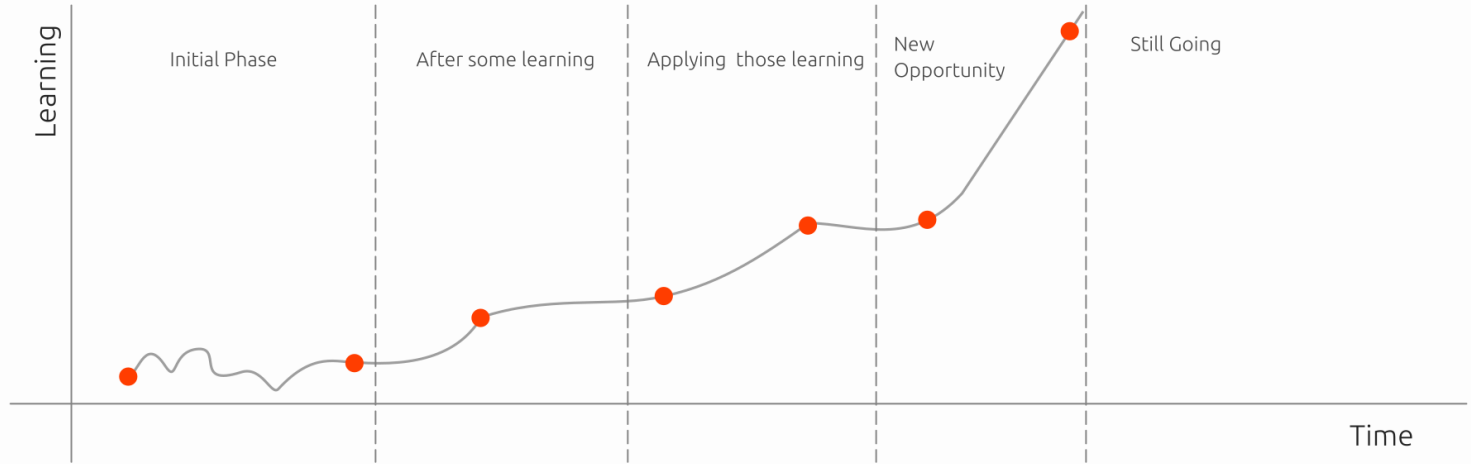
- Started writing codes before understanding it because everyone else was doing it...
- Copying and pasting just to finish and scape
- Try to learn everything at same time again and again
- Low on confidence when others coded like a breeze of air
- Confusing between many terms simultaneously
- Not looking at the compilation/ runtime errors. Just trying to get the result. Errors says a lot about your coding style.
- Trying to solve everything with if/else and for loops.

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 Learning Curve - Is it hard or is it easy ?



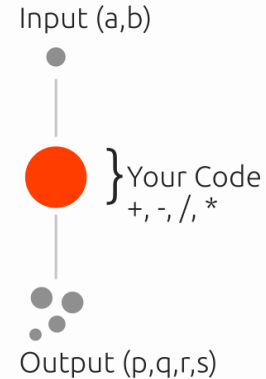
# Basics of Programming

## Wave 1: Programming Language

• 3rd January

- ❑ Input & Output
- ❑ Major level approach to solve the problem

🎤 Common in every programming language



# Basics of Programming

## Wave 1: Programming Language

• 3rd January

 Difference - A glimpse to optimisation

- ❑ Style of coding - Object based approach/ Functional Approach/ Scripting/ Hybrid etc
- ❑ Data structure approach
- ❑ Complexity of code
- ❑ Time taken and memory utilised to run the code
- ❑ Syntax of code
- ❑ Implementation of different libraries
- ❑ Way of defining variables

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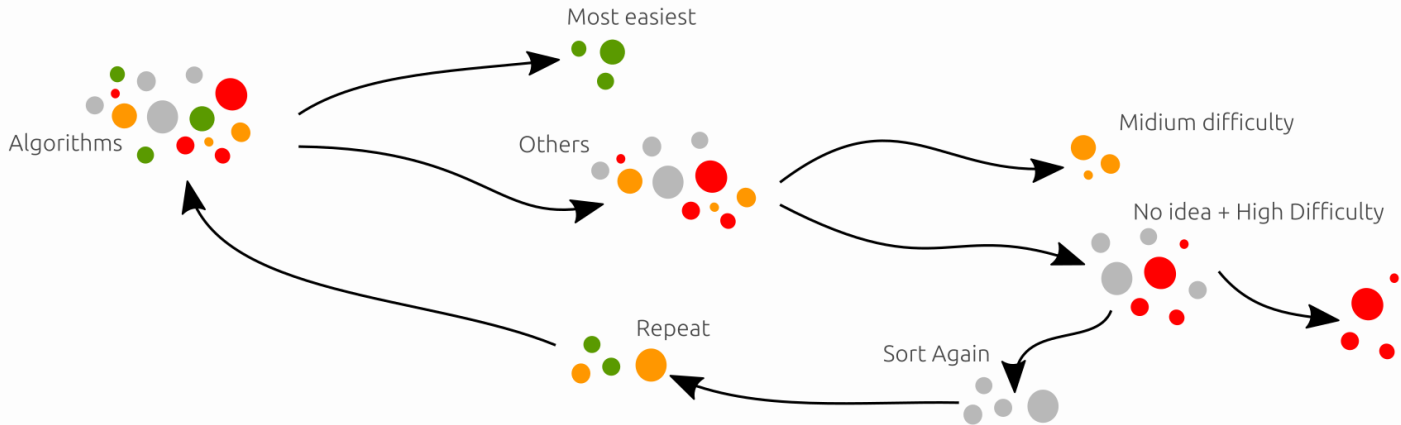
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🗣️ Algorithms - Do we really need to start with them ?

" Categorise into different difficulty levels. Start with most easiest first "

Never jump into solving random algorithms, have a plan..





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## Wave 1: Programming Language

• 3rd January

 Which programming language - The Biggest Question

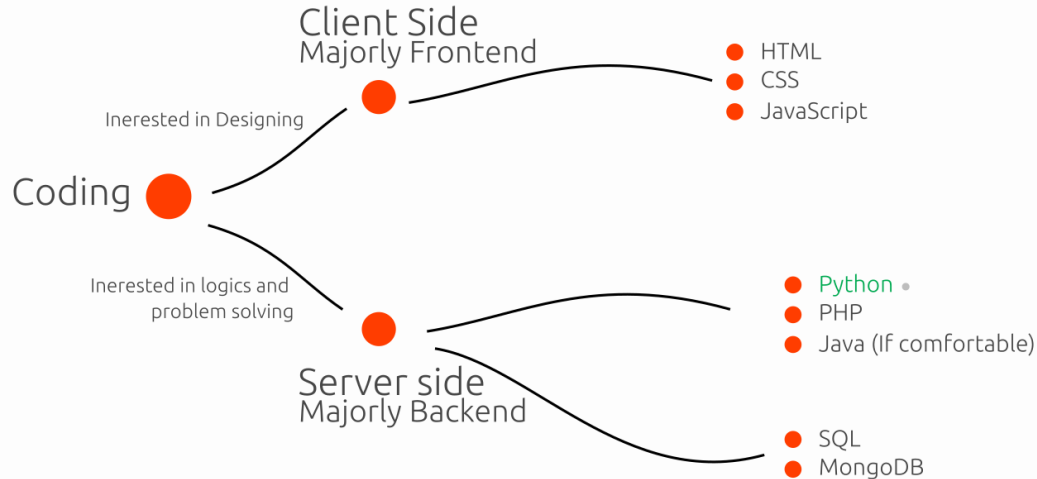
- As a beginner, start learning the language which do more in less code.
- Has good data structure and library support.
- Can run easily and simply from anywhere with just one file without IDE.
- Has Scripting nature + support for functional approach to programming.
- Once you are confident on these, try experimenting with languages having support for object oriented programming. Never jump directly..
- Experiment with IDEs and importing libraries..

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🗣️ Which programming language - The Biggest Question



Editors:

- Sublime Text
- Notepad++
- IDEs (if comfortable)