CODING BLOCKS

Lecture-1

Introduction to Web

- Introduction to Full Stack

Kartik Mathur

Syllabus

- FRONT END
  - HTML/CSS
  - JS – Mostly asked in interviews
  - jQuery
  - Bootstrap
  - ReactJS
  - Next JS
  - Tailwind - CSS
  - TypeScript
  - AXIOS/FETCH

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Syllabus

- Backend
  - Node JS
  - MongoDB and Mongoose
  - Postgres SQL and Prisma
  - GraphQL: API Query language
  - WebSocket
  - Authentication: JWT/Google etc.
- Projects
  - Spotify Clone
  - Todo List – Multiple ways
  - URL Shortener
  - Chat APP
  - Text – Editor using Draft.js
  - Blog Management System
  - Medium Clone/E-commerce Clone or any similar project.
  - CAPSTONE PROJECT: Students can decide.

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Syllabus

- Deployment
  - AWS
- Testing
  - Chai/Mocha
- Hackathons – Minimum:3
  - To build projects during the limited time frame.

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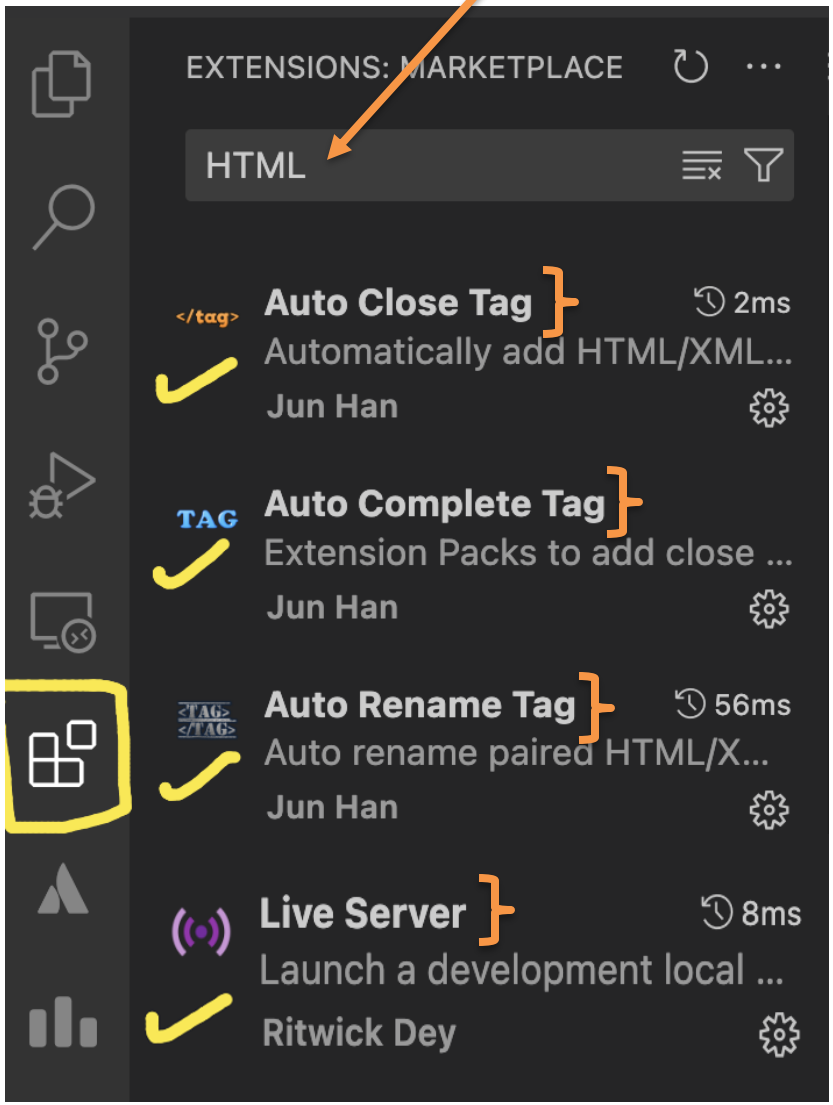
Software

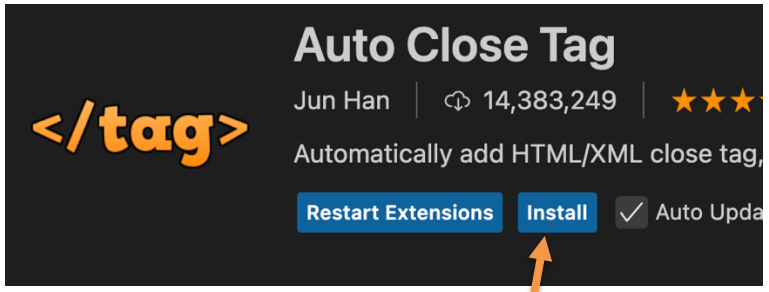
- Visual Studio Code Download

GOOGLE “DOWNLOAD VISUAL STUDIO CODE”

Extensions

Type these names in search box at top





Click on Install to download extension

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LET'S GET STARTED!

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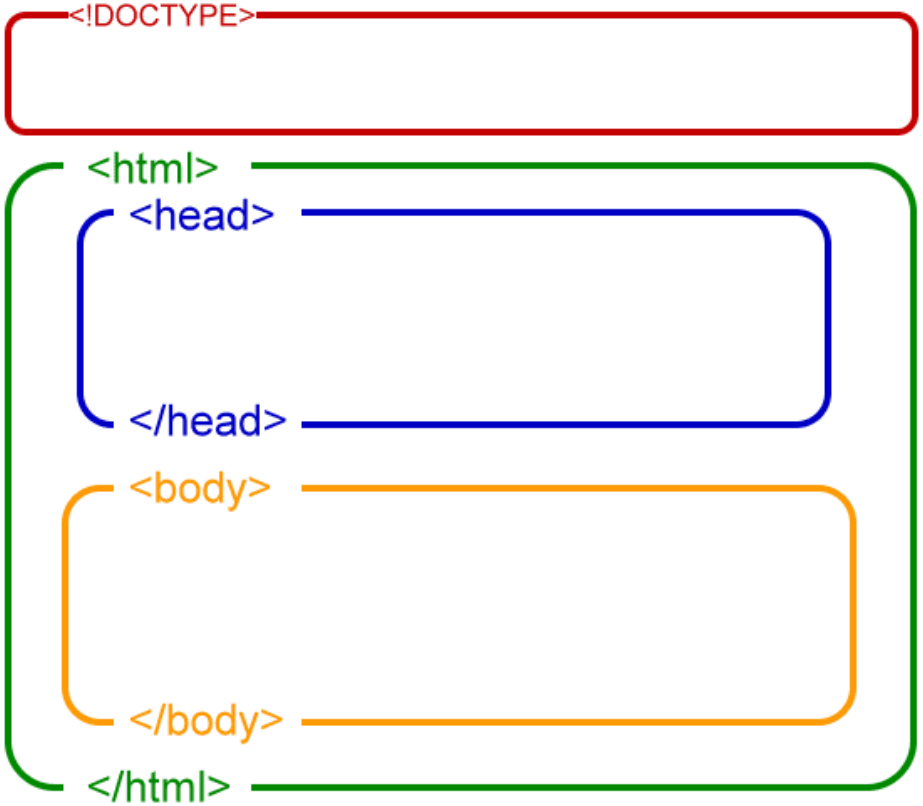
HTML TAGS

We need HTML Tags to create the structure of our website.



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HTML Heading Tags

Coding Blocks - Heading-1

Coding Blocks - Heading-2

Coding Blocks - Heading-3

Coding Blocks - Heading-4

Coding Blocks - Heading-5

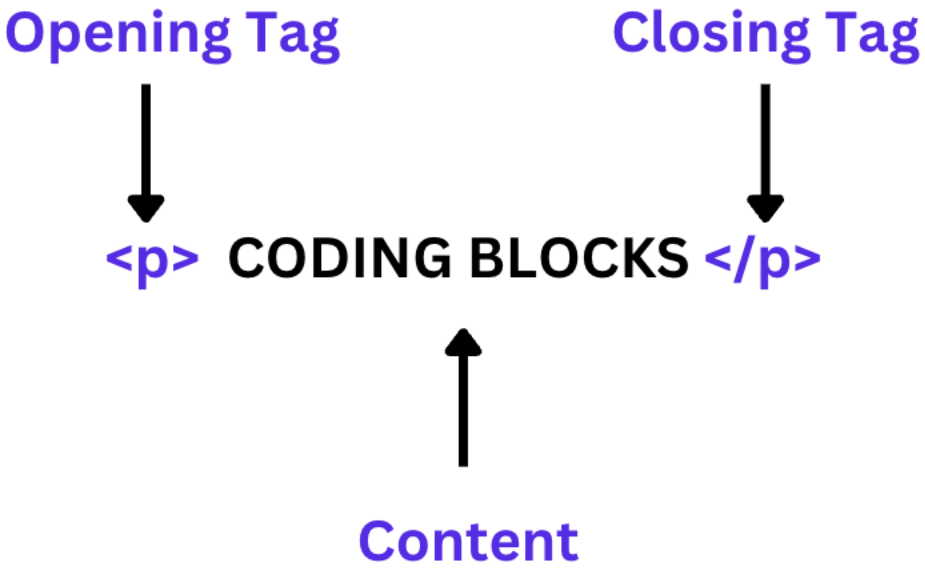
Coding Blocks - Heading-6

CODING BLOCKS

HTML Heading Tags

```
<h1>Coding Blocks - Heading-1</h1>
<h2>Coding Blocks - Heading-2</h2>
<h3>Coding Blocks - Heading-3</h3>
<h4>Coding Blocks - Heading-4</h4>
<h5>Coding Blocks - Heading-5</h5>
<h6>Coding Blocks - Heading-6</h6>
```

Paragraph Tag



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Paragraph Tag

```
<html>
<head>
    <title>Document</title>
</head>
<body>
    <p>
        Hello, I am a Paragraph
    </p>
</body>
</html>
```

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What is View Port?

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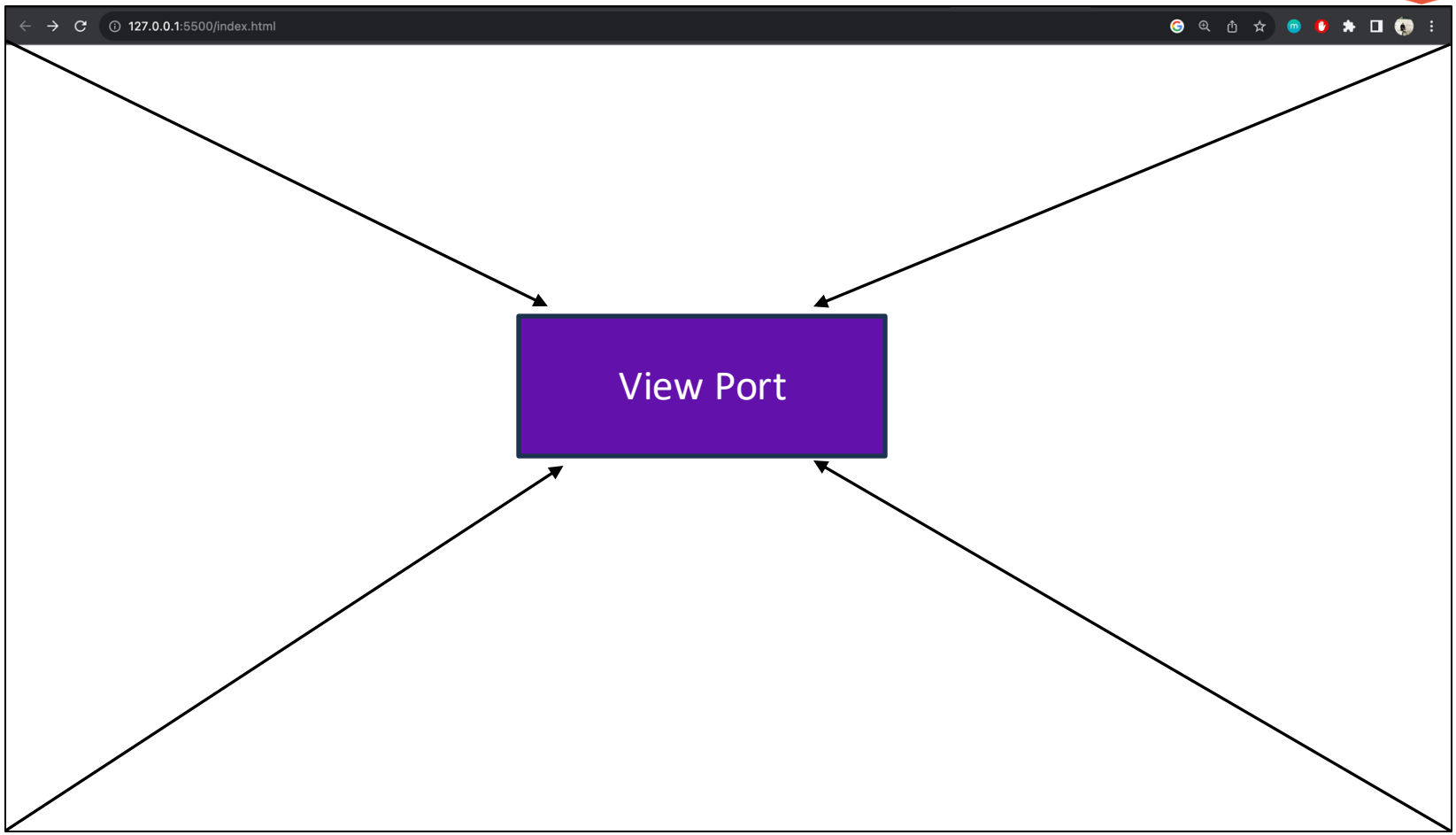


CODING BLOCKS

Inline v/s Block Elements

I am a block element, and called as DIV

I am another block element, and called as paragraph

Every block elements occupy the entire view port width!

I am an inline element :

I am another inline element :

CODING BLOCKS

Inline v/s Block Elements

```
<body>

    <div>I am a block element, and called as DIV</div>

    <p>I am another block element, and called as paragraph</p>

    <div>Every block elements occupy the entire view port width!</div>

    <span> I am an inline element : &lt;/span&gt;</span>
    <span> I am another inline element : &lt;/span&gt;</span>

</body>
```

CODING BLOCKS

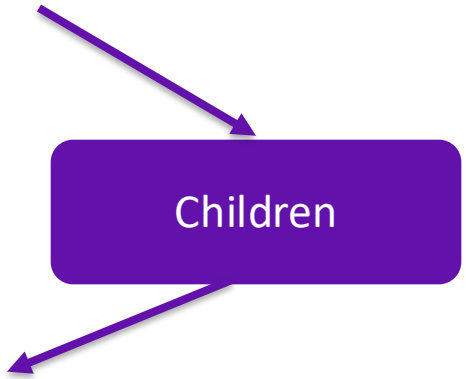
What are Lists?

List of mobile numbers or list of emails!

Mobile	Email
+4 315 23 62	carlsen@armand.no
+2 134 25 65	cristofer.ajer@lone.no
+1 345 22 21	haitam@gmail.com
+1 756 52 73	camp@hotmail.com
+1 965 43 11	williams.ash@newl.com
+4 644 12 38	paradi.van@google.com
+1 909 34 33	lora.palm@gmail.com
+6 254 75 12	chris@amazon.com
+4 668 43 12	jackel1214@google.com
+1 343 63 32	tora.lan@gmail.com
+5 234 23 00	manisha@hotmail.com

Unordered List!

```
<ul> I am an unordered List</ul>
```




```
<li> I am First Child </li>
<li> I am Second Child</li>
<li> Third Child, I am also last child</li>
```

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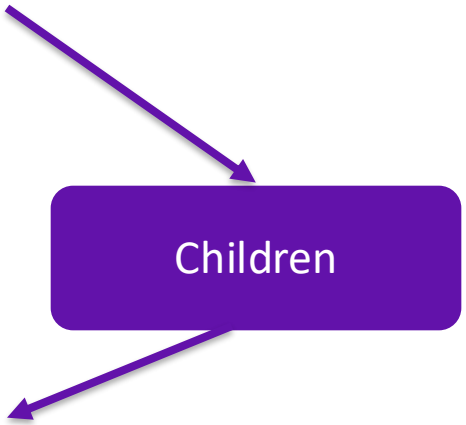
Ordered List!

```
<ol>I am an ordered list</ol>
```




```
<li> I am First Child </li>
<li> I am Second Child</li>
<li> Third Child, I am also last child</li>
```

CODING BLOCKS

Attributes?

Key/s that we can write inside our tags.

- Every element have their own attributes
- Some tags may or may not have the same attributes.

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Attributes for <ul>?

We can have type attribute for ul.

```
<ul type="disc">
    <li>Fight Club</li>
    <li>Avatar</li>
    <li>Spiderman</li>
    <li>Dr Strange</li>
    <li>Rab ne bana di jodi</li>
</ul>
```

type can be

- disc (Default)
- circle
- square

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Attributes for <ol>?

We can have type and start attribute for ul.

```
<ol type="A" start="3">
    <li>Breaking Bad</li>
    <li>Prison Break</li>
    <li>GOT</li>
    <li>Suits</li>
    <li>Mentalist</li>
</ol>
```

type can be

- 1: Number (Default)
- A/a: Alphabet
- I/i: Roman

start is always an integer only.

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LEARN TO GOOGLE!

TELL ME ABOUT TABLE TAG?

CODING BLOCKS

<table> Tag?

```
<table>

    <thead> <!-- Table Header --> </thead>

    <tbody> <!-- Table Body --> </tbody>

</table>
```

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<table> Tag?

- <thead> and <tbody> Tags can have three children:
  - <tr>: Row
  - <th>: Heading
  - <td>: Data

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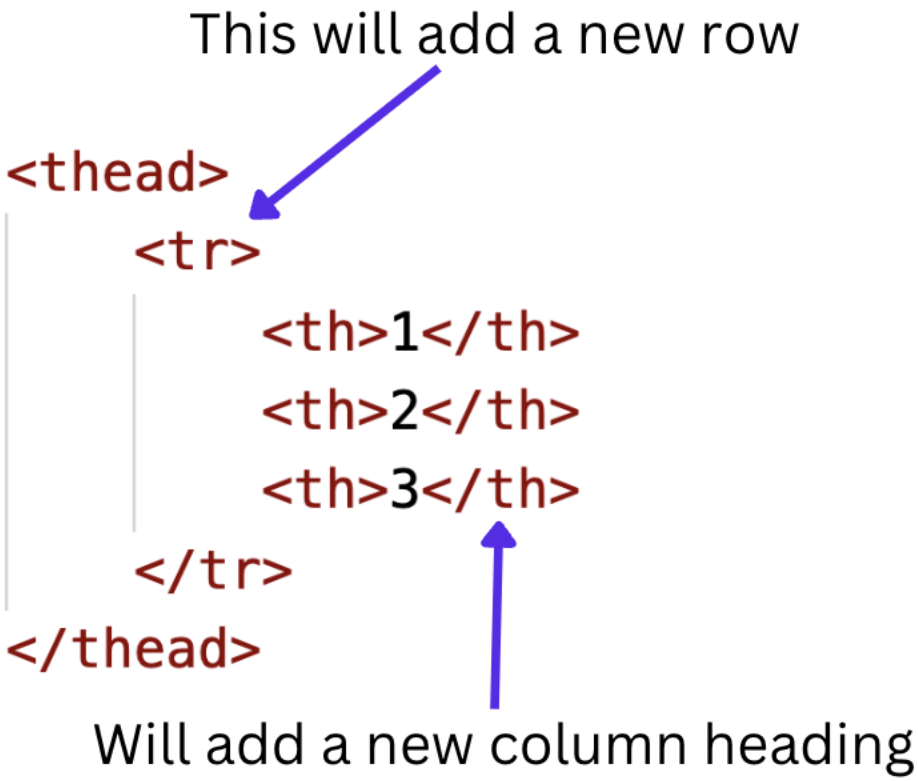
<table> Tag?



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<table> Tag?

This will add a new row

```
<tbody>
    <tr>
        <td>Pen</td>
        <td>Pencil</td>
        <td>Box</td>
    </tr>
</tbody>
```

Will add a new column

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GOOGLE ME!

TABLE ATTRIBUTES?

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Mini Project!

	1	2	3		4		6	
Mon	C++	HTML	CSS	B R E A K	JAVA		C++	
Tue	Hindi	Web Dev			C++	HTML	CSS	OS
Wed		C++			Django			
Thu		Java			English	Go	Networks	
Fri	Data Science				C++		Go	Python

CODING BLOCKS

DON'T Take WEB-DEV like DSA!

- You don't need to know everything
- But you need to know how to google it!

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Thankyou!

Kartik Mathur