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Fundamental of Node.js

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About the course

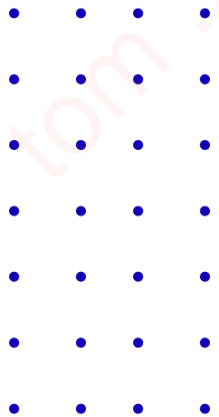
Node.js	API RESTful API	Express.js	MongoDB
Mongoose	Authentication Authorisation	Deployment	Docker
Testing			

Front end vs Back end vs Full stack

Front end: how things look

Back end: how things work

Full stack: both front and back end

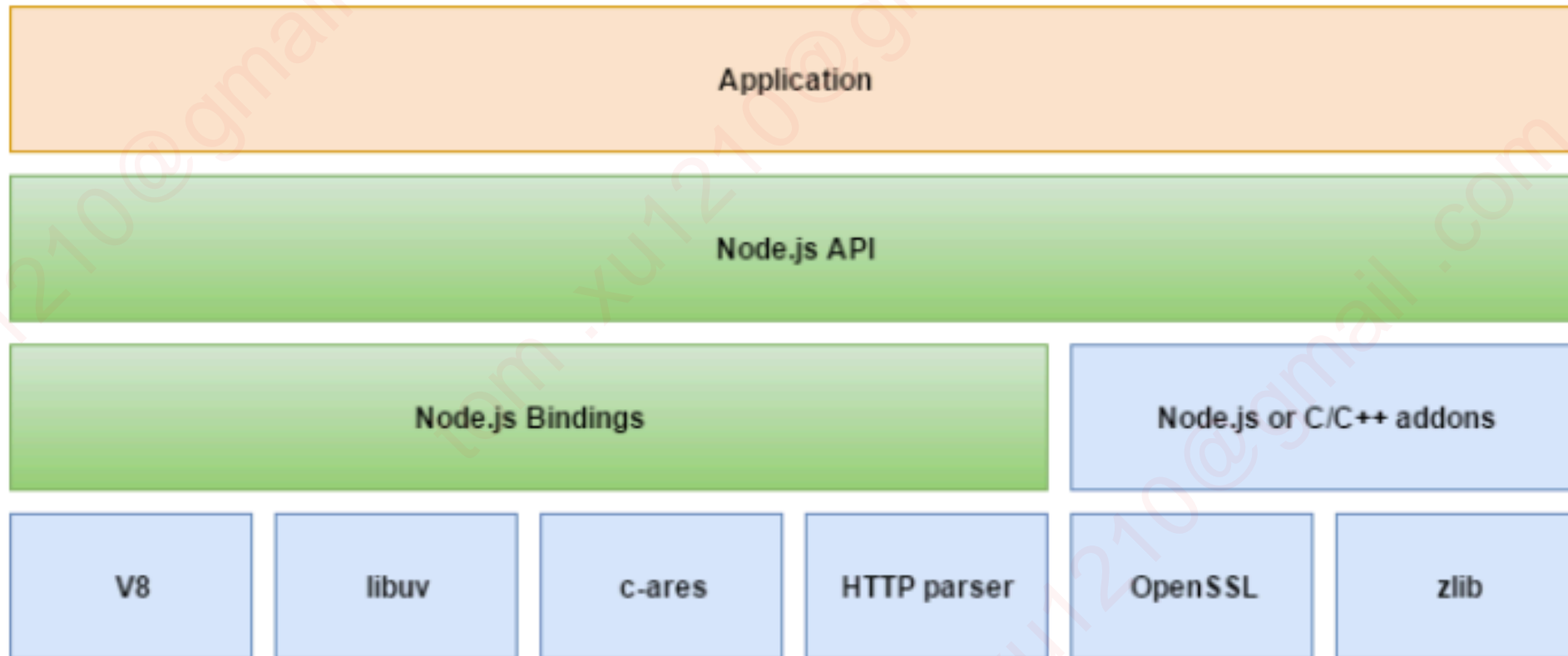


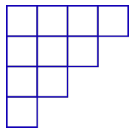
Node.js

About Node.js

- A JavaScript runtime environment build on Chrome's V8 engine
- Asynchronous, event driven
- Non-blocking I/O
- Often used for building back-end services
- Fast and scalable

Node.js Architecture

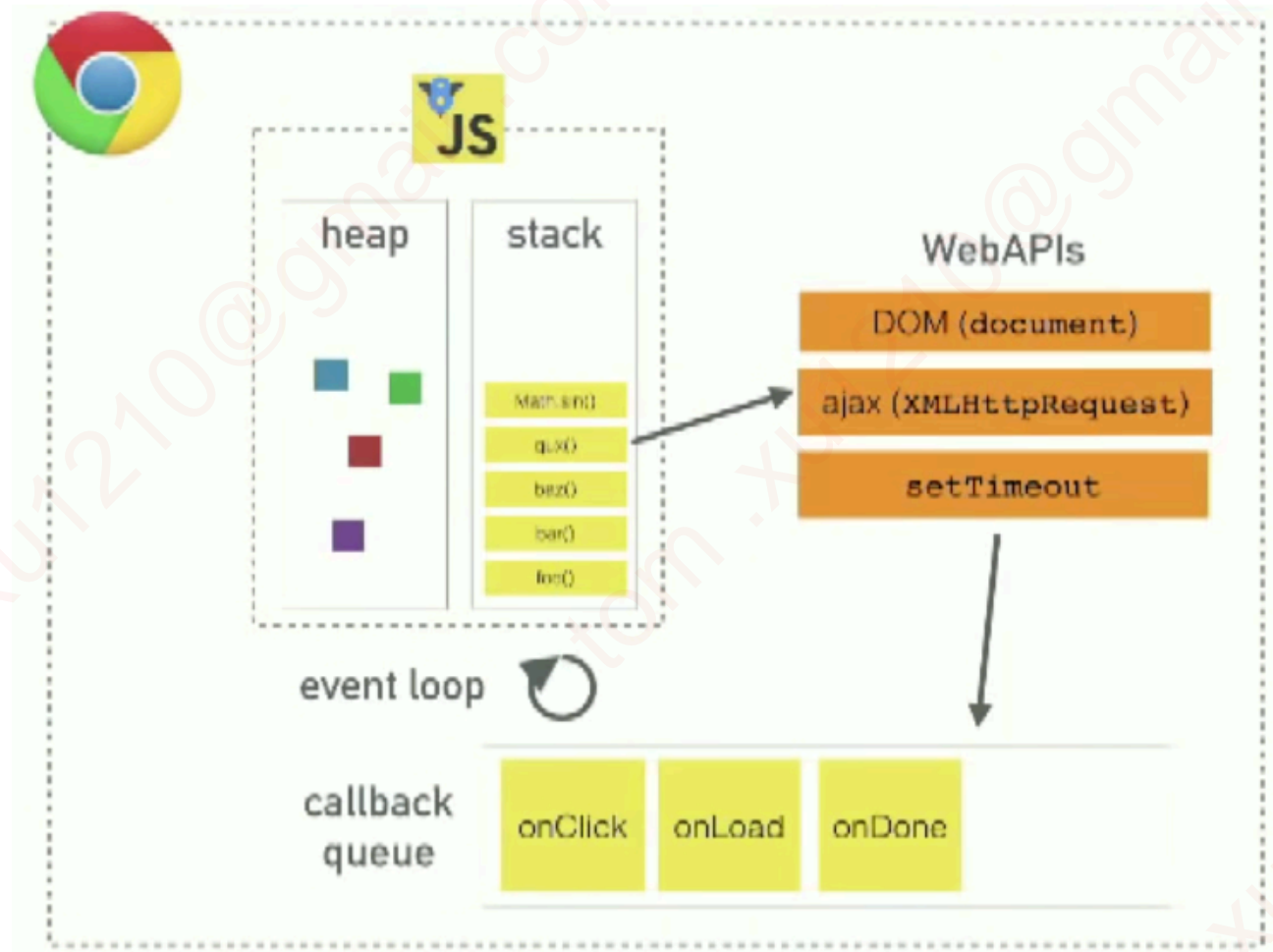




Why

```
console.log('A');  
setTimeout(() => {  
  console.log('B');  
}, 3000);  
console.log('C');  
  
// A  
// C  
// B
```

Event Loop in browser



```
function charlie() {
  throw new Error();
}

function beta() {
  charlie();
}

function alpha() {
  beta();
}

alpha();
```

[Link](#)

```
✖ Uncaught Error
    at charlie ((index):34)
    at beta ((index):38)
    at alpha ((index):42)
    at window.onload ((index):45)
```


Node versions

Let's coding



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Q & A