

Function Composition

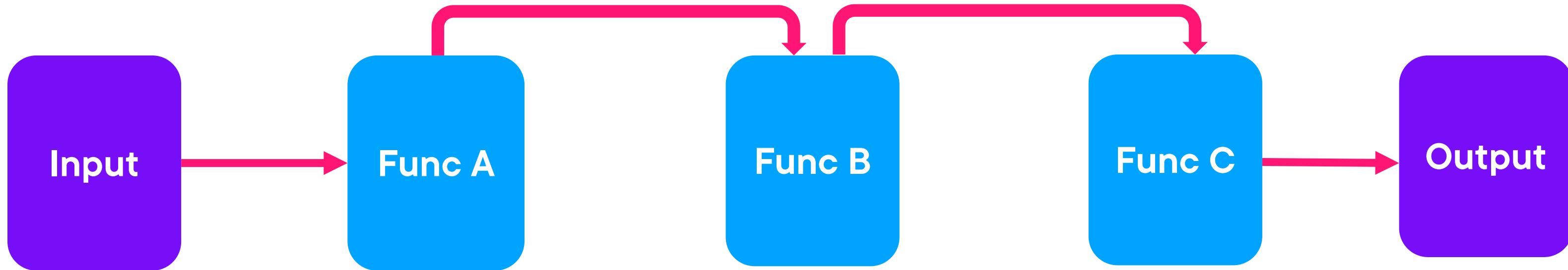


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Function Composition



Composition

function1(function2(value))



Combining functions is function composition!

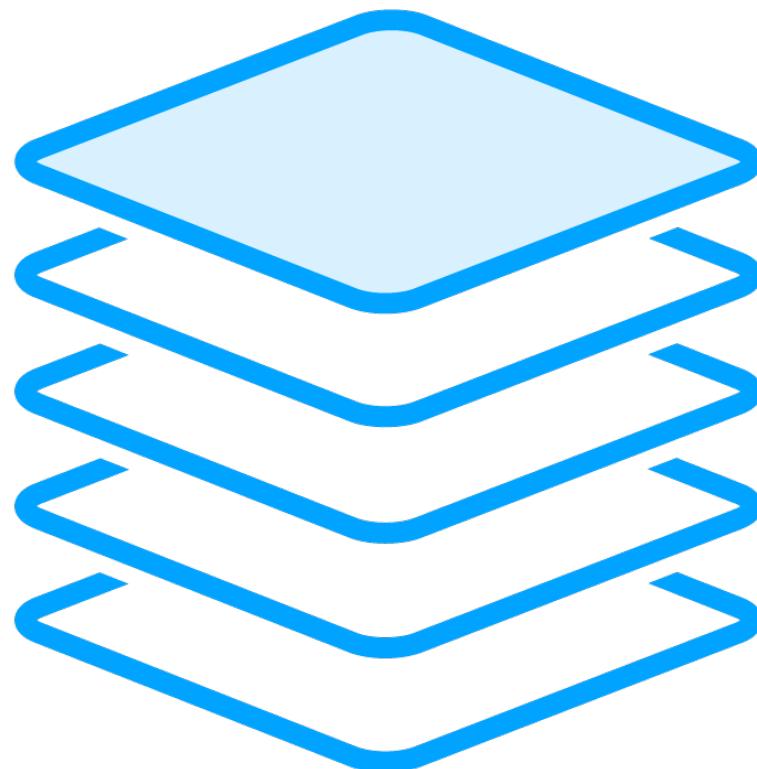


Composition

function1(function2(value))



Why Function Composition?



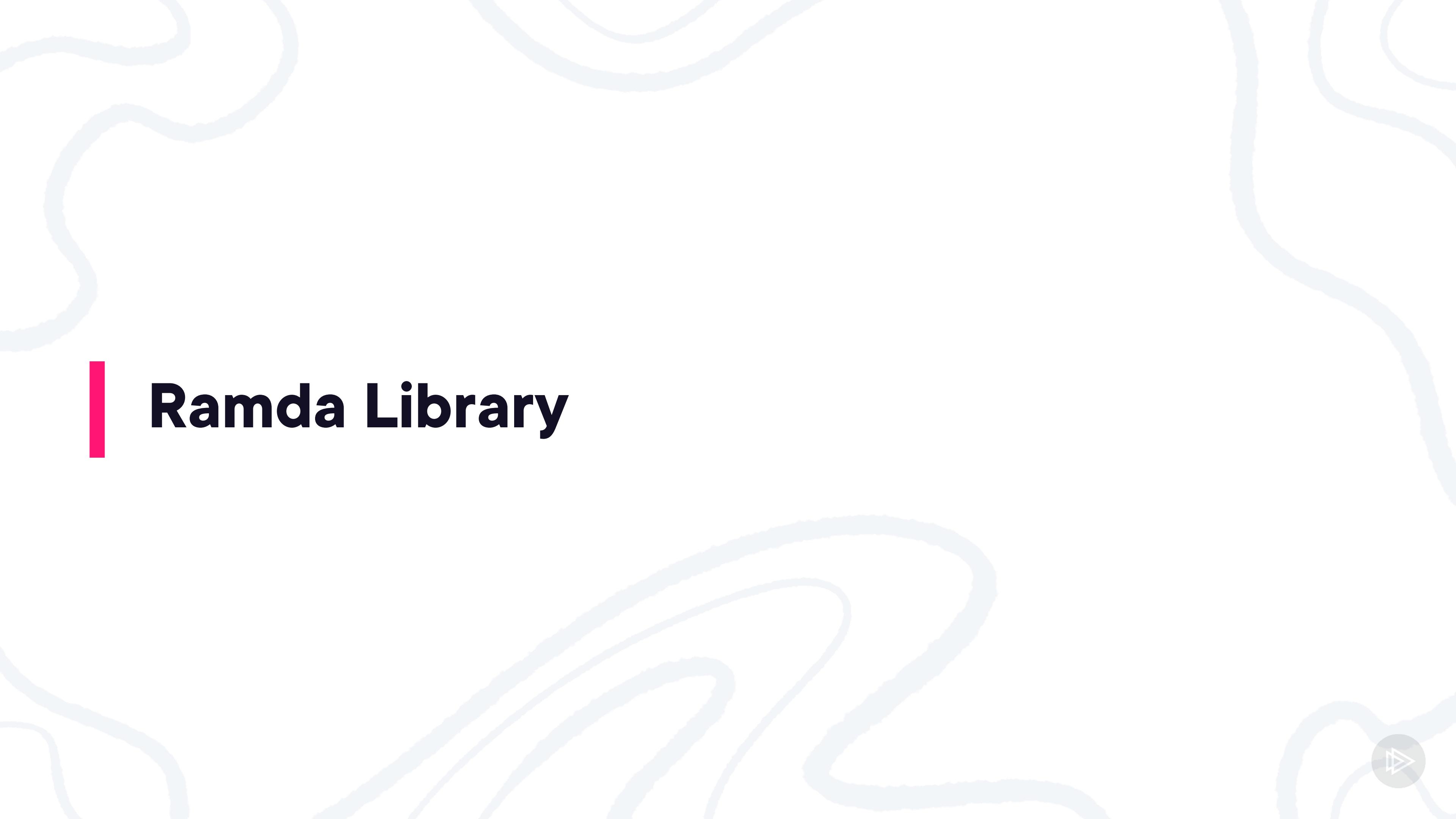
Less code

Improves code readability

Chain of functions, and can easily remove a link

Frameworks like React, use composition by wrapping a component around another component





Ramda Library



Ramda Features

Emphasizes a purer functional style

Immutability and side-effect free functions

Clean and elegant API



```
npm install ramda
```

```
const R = require('ramda');
```

Installation of Ramda

<https://ramdajs.com/docs/>



```
const triple = x => x * 3;  
const cube = x => x * x * x;
```

```
// function pipe  
var output = pipe(cube, triple)(2);  
console.log(output);
```

```
// output = 24
```

Pipe

Performs left to right composition



```
const triple = x => x * 3;  
const cube = x => x * x * x;  
  
// function compose  
var output = compose(cube, triple)(2);  
console.log(output);  
  
// output = 216
```

Compose

Performs right to left composition.



References

Ramda documentation: <https://ramdajs.com/docs/>

Loadash documentation: <https://lodash.com/>



Up Next:

Built-in JavaScript Functions

