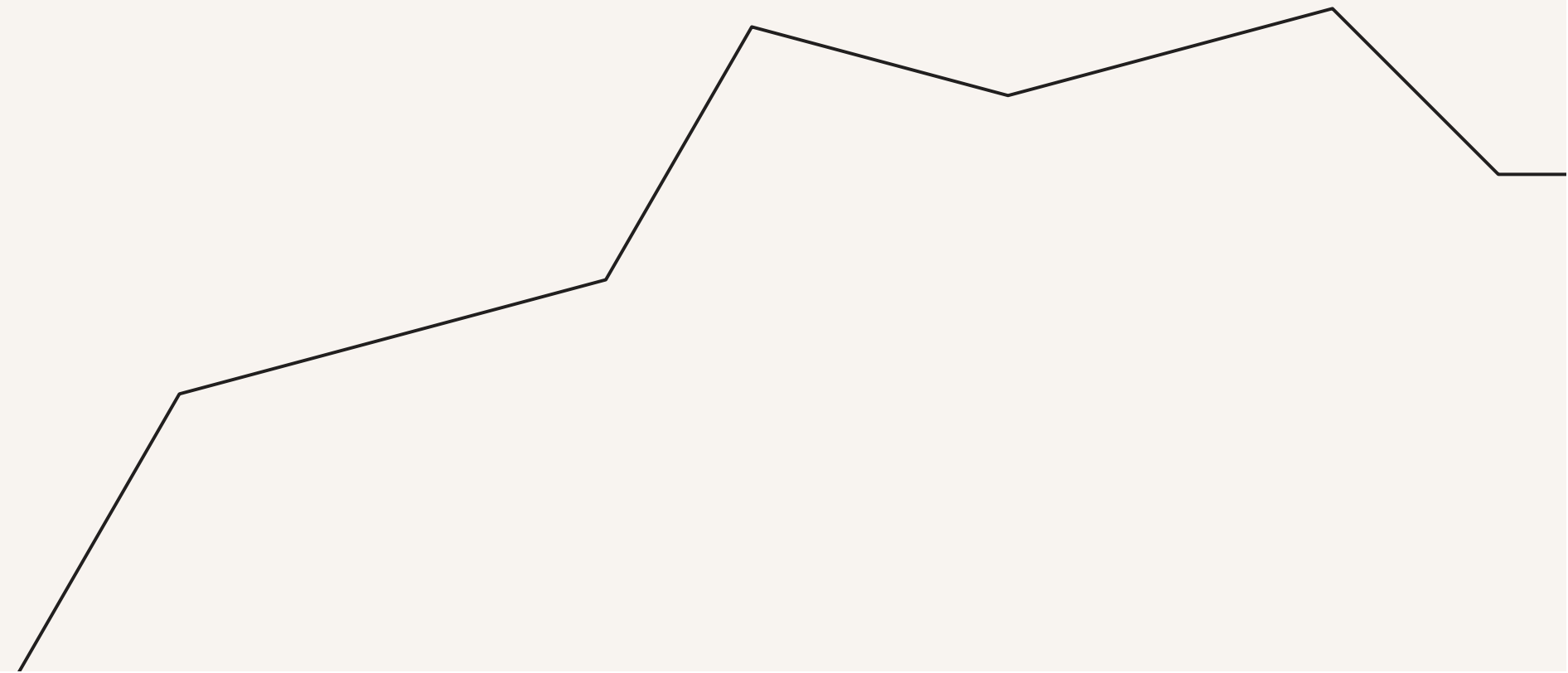
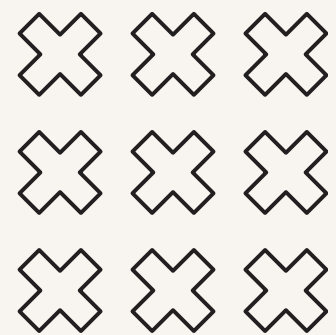
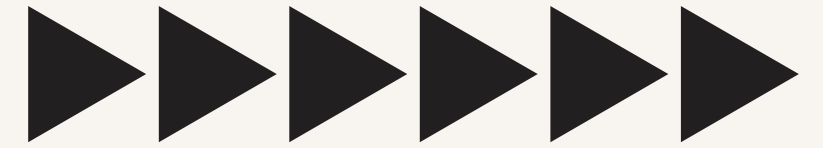
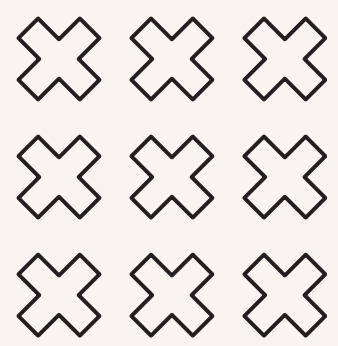




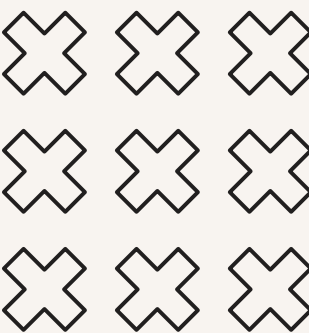
Mastering Functions: Understanding Arrow Functions and Callbacks in JavaScript





Introduction to Functions

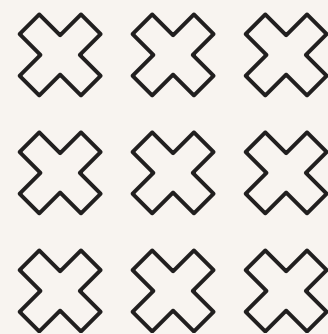
In **JavaScript**, functions are fundamental building blocks. They allow us to **encapsulate** behavior and create **reusable** code. This presentation will explore **arrow functions** and **callbacks**, two essential concepts that enhance our programming capabilities.





What Are Arrow Functions?

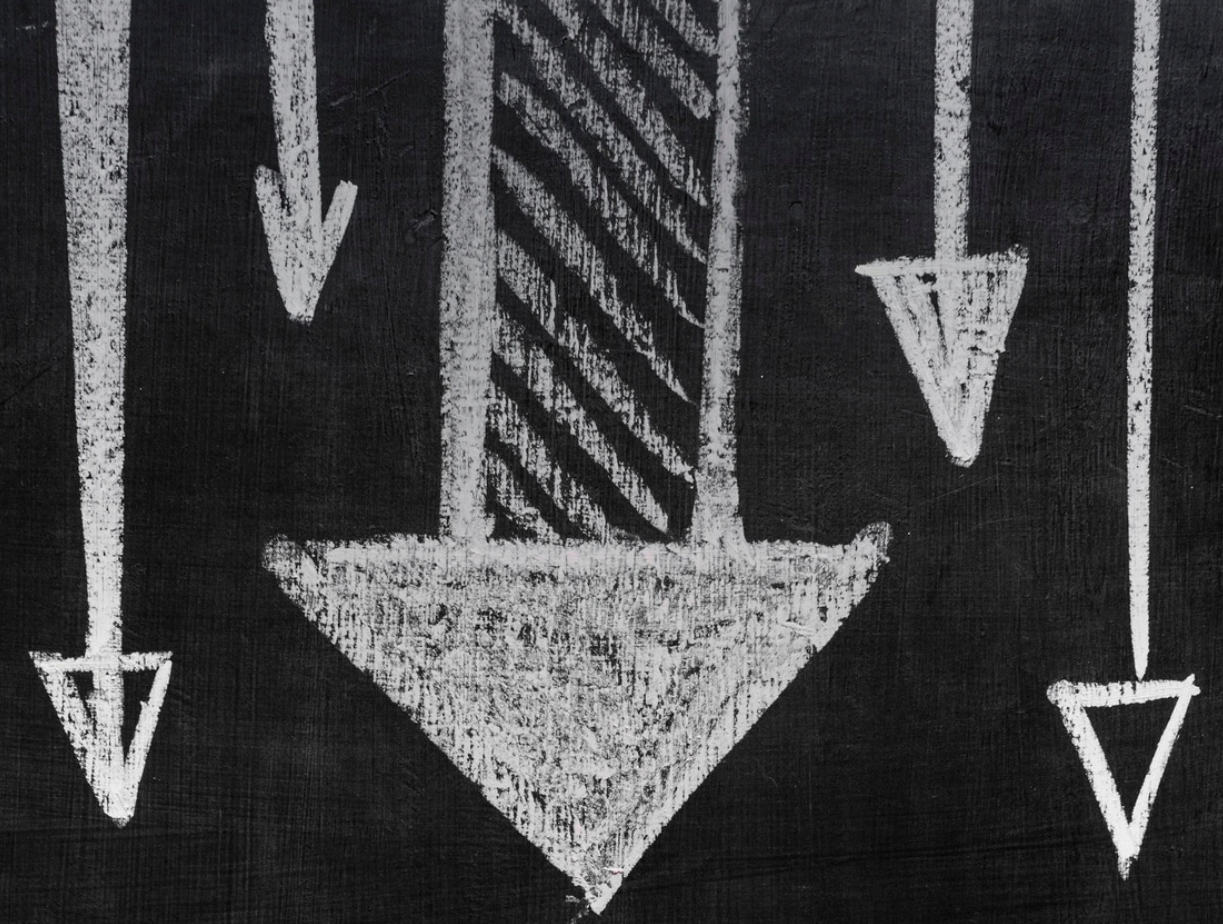
Arrow functions are a more concise way to write functions in **JavaScript**. They provide a clean syntax and do not bind their own **this** context, making them ideal for certain situations. Understanding their usage can help improve code readability and maintainability.





Syntax of Arrow Functions

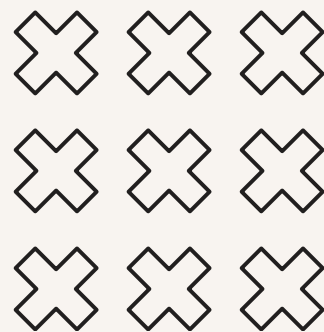
The syntax for **arrow functions** is simple: (parameters) `=>` { statements }. If there is only one parameter, parentheses can be omitted. This brevity allows for **cleaner** code, especially when dealing with **inline** functions or **callbacks**.

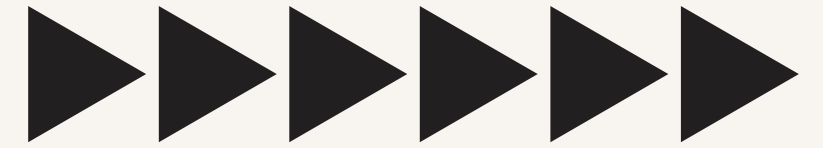
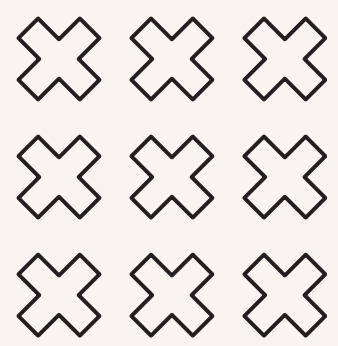




Understanding Callbacks

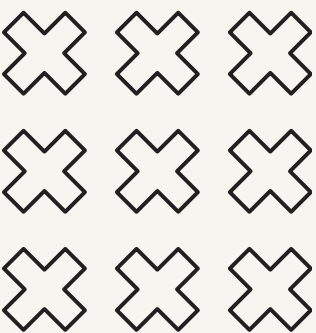
Callbacks are functions passed as arguments to other functions. They are essential for asynchronous programming in **JavaScript**. By using callbacks, we can ensure that certain code runs only after a task has completed, enhancing the flow of our applications.





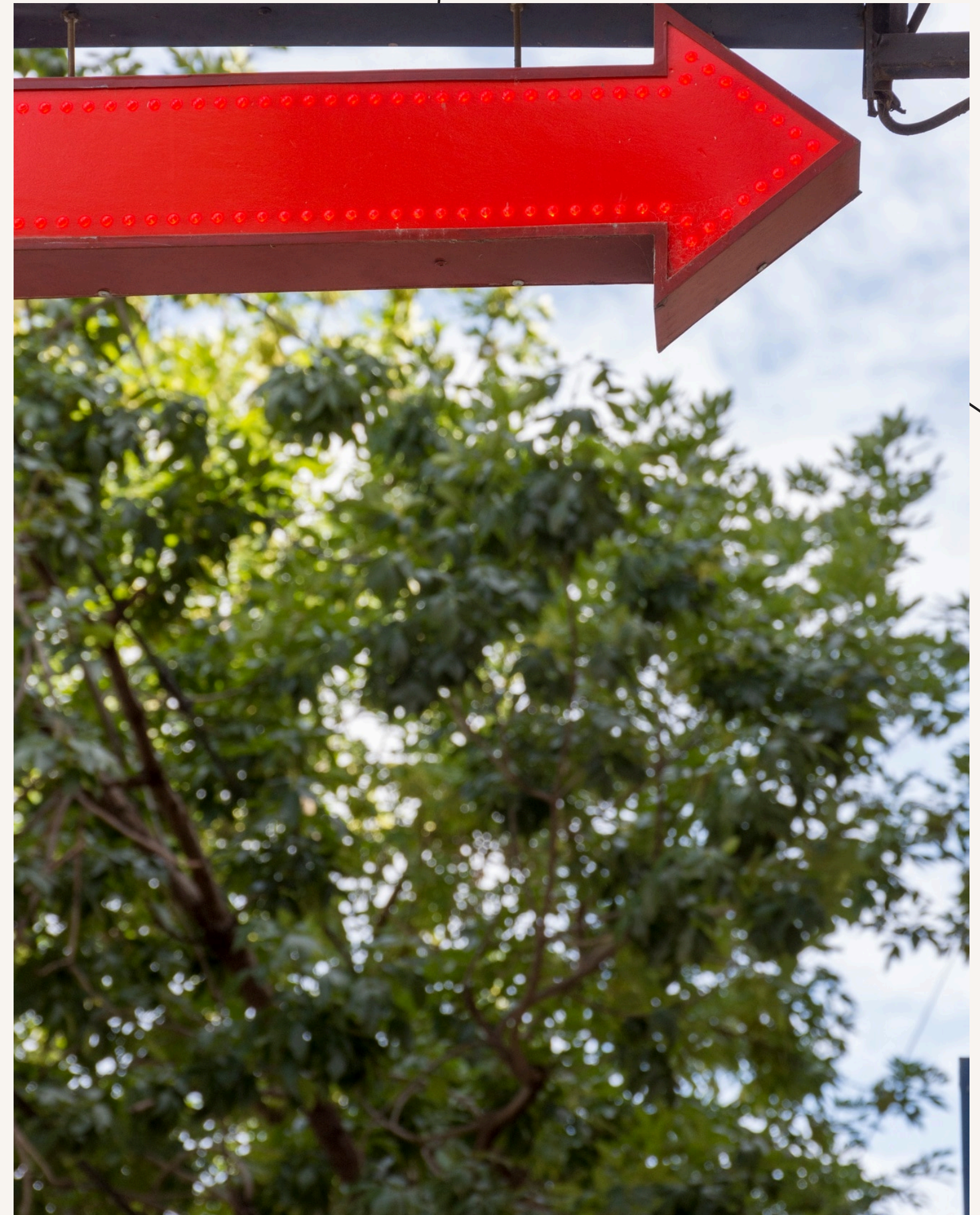
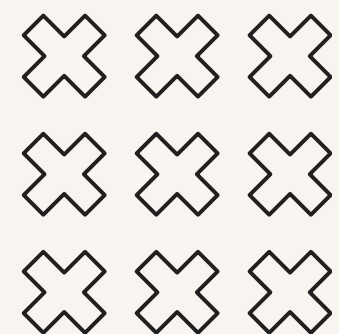
Using Arrow Functions as Callbacks

Arrow functions can be used as **callbacks** to provide a more concise syntax. They are particularly useful in methods like `.map()`, `.filter()`, and `.reduce()`, making your code more readable and expressive while maintaining the context of `this`.



Conclusion

Mastering **arrow functions** and **callbacks** is crucial for any JavaScript developer. These concepts not only streamline code but also enhance its **functionality**. By understanding these tools, you can write more efficient and maintainable code in your projects.





Thanks!

