

# Handling Errors in Functional Style

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**Zoran Horvat**

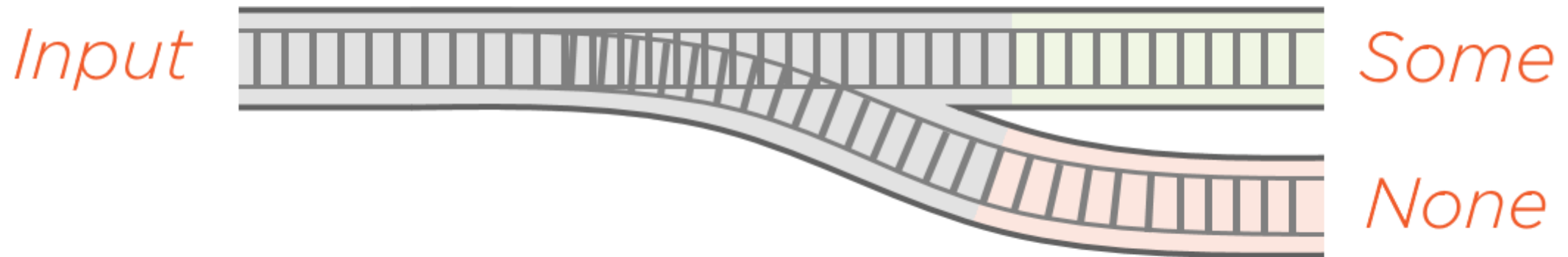
CEO AT CODING HELMET

@zoranh75

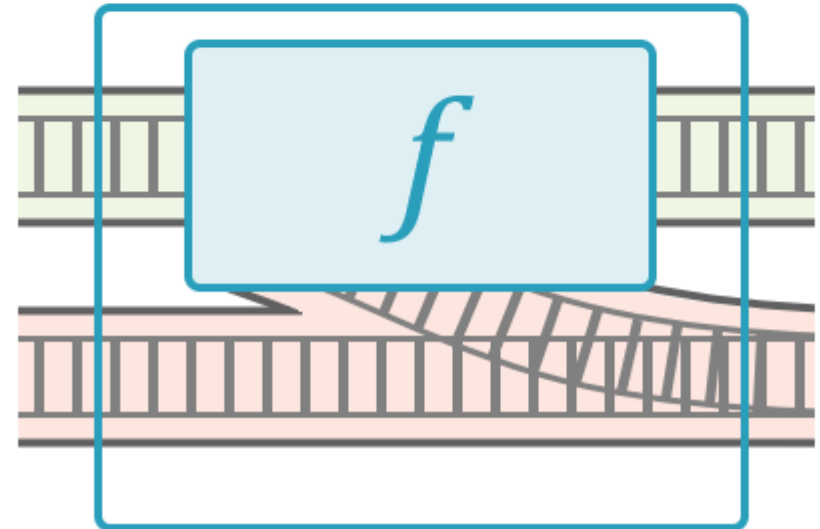
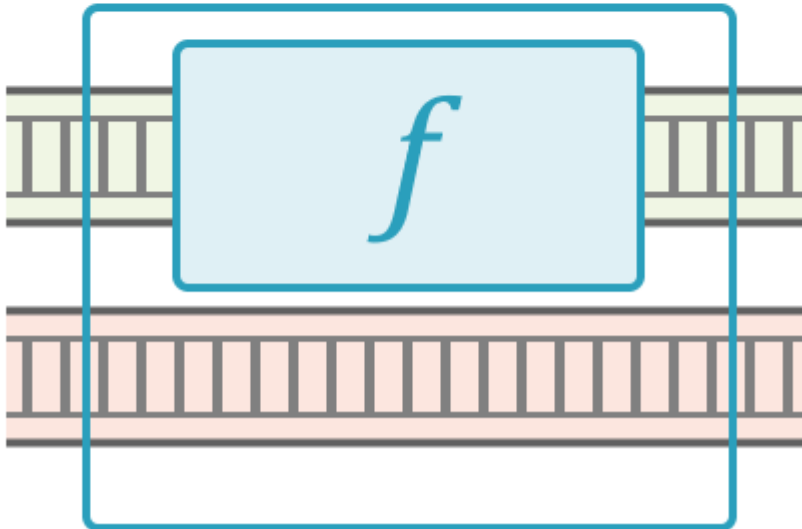
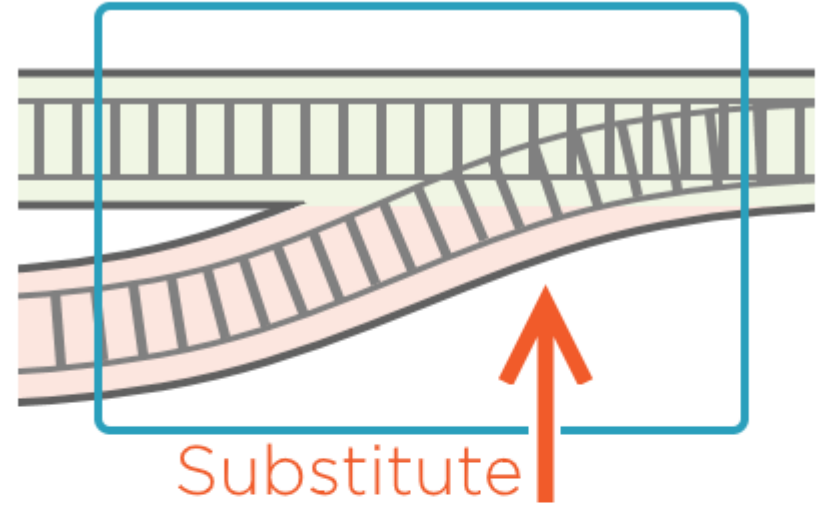
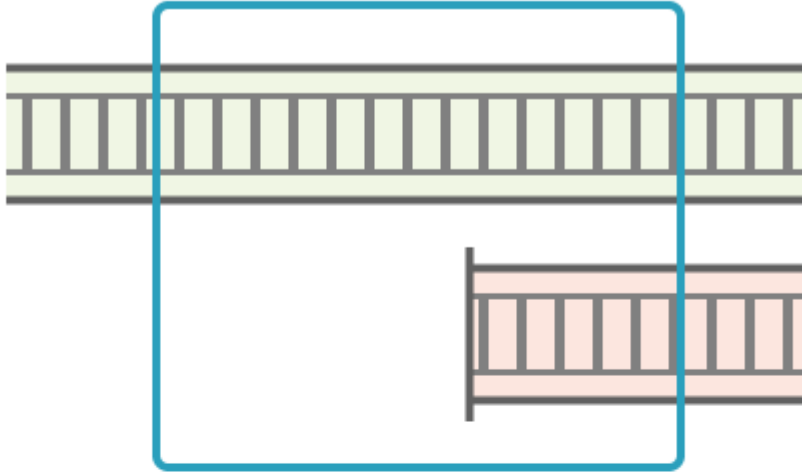
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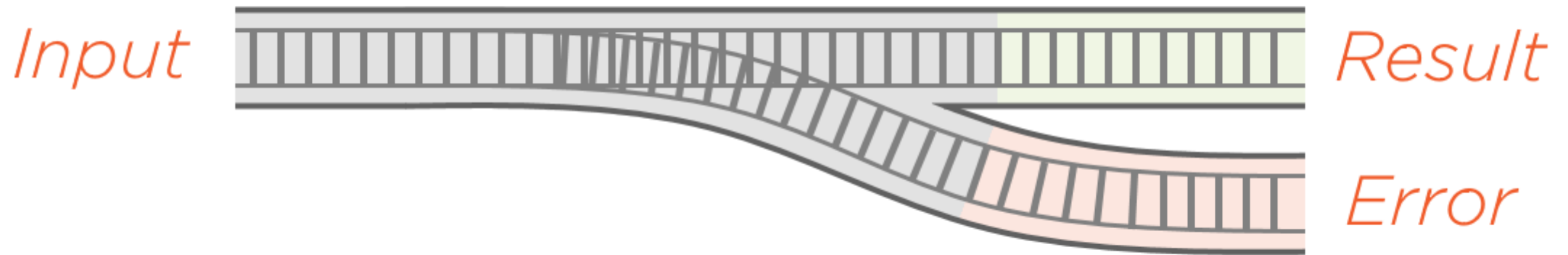
# Railway-oriented Optional Objects



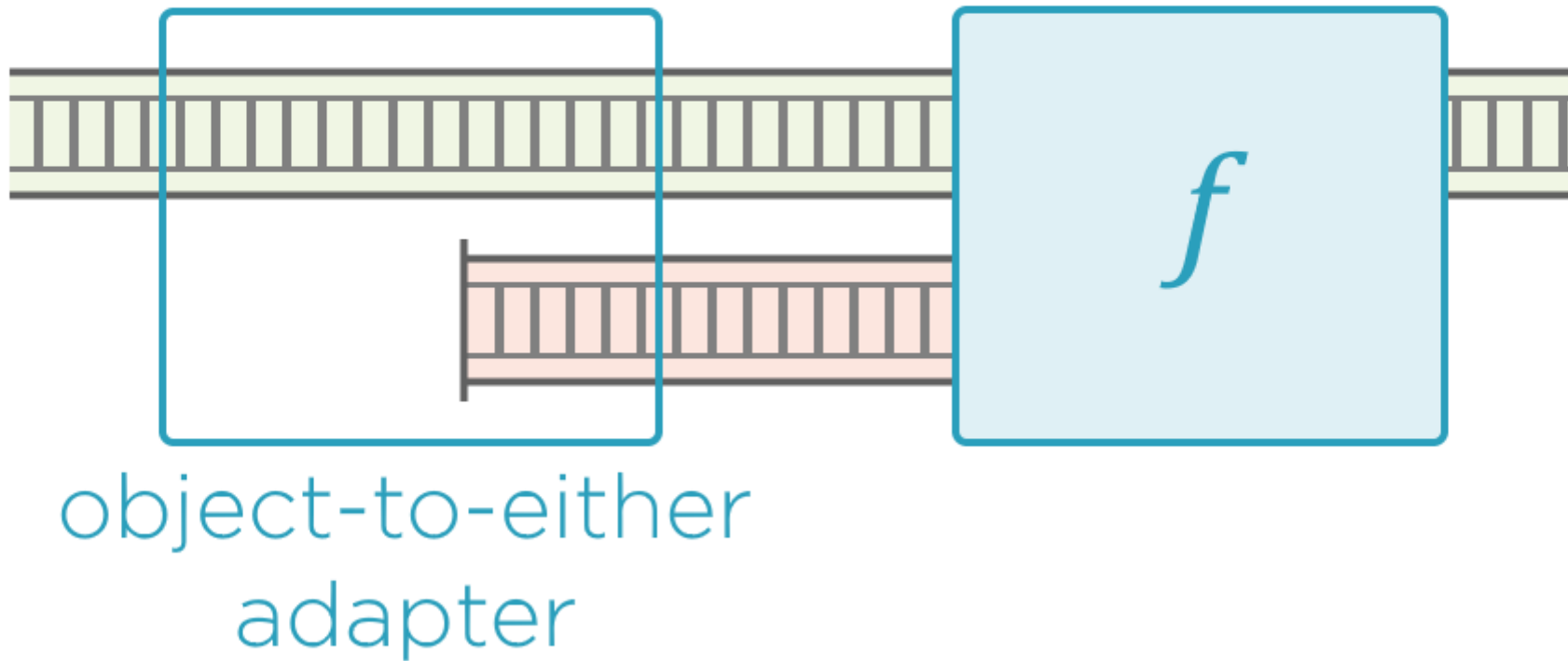
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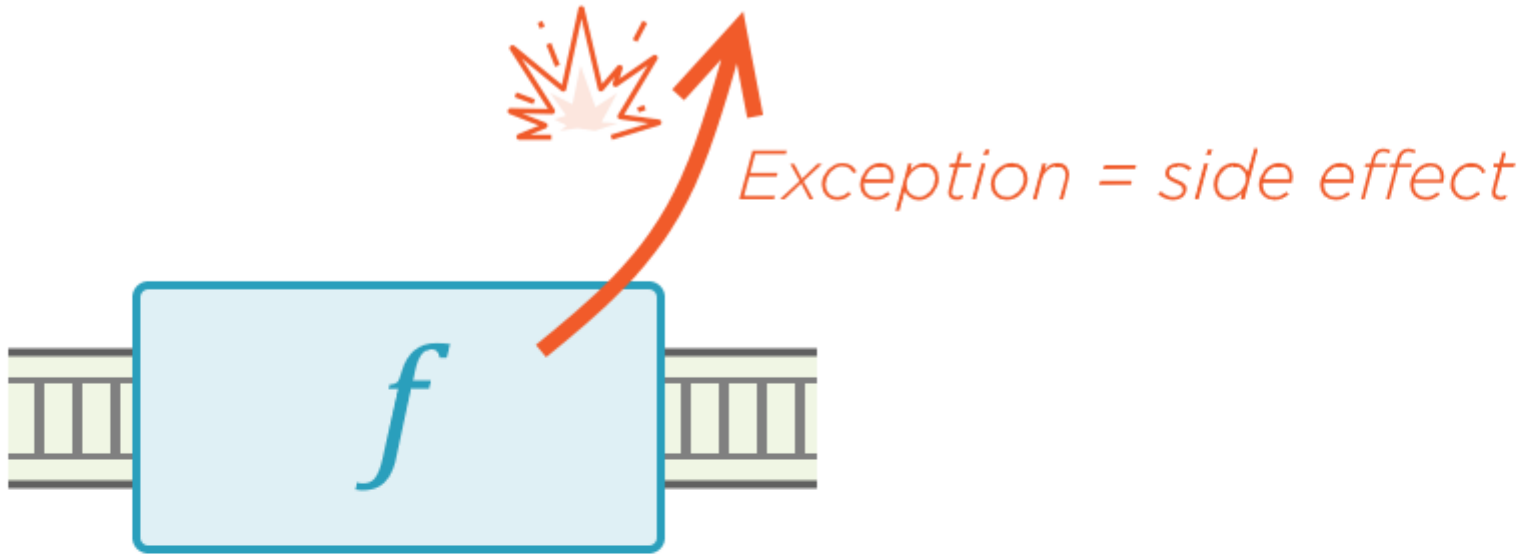
# Railway-oriented Error Handling



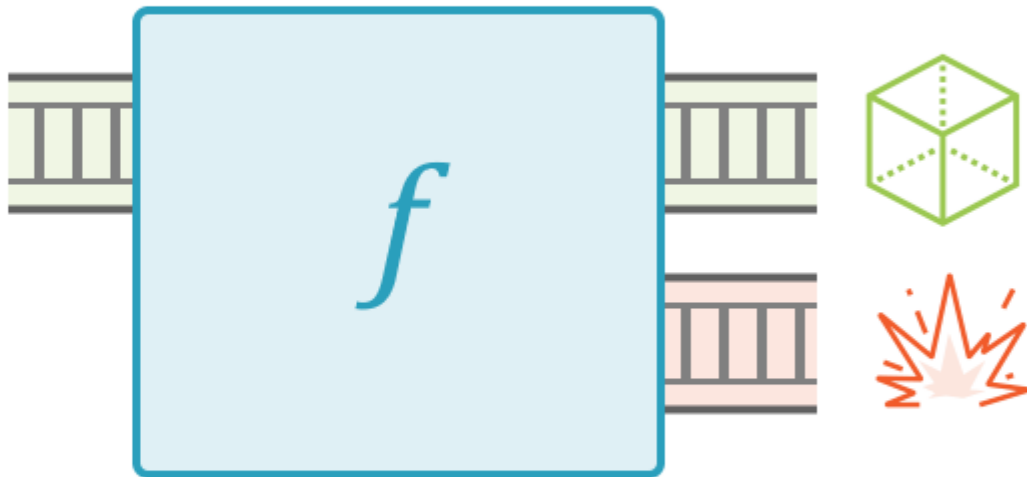
# Error Handling Adapters



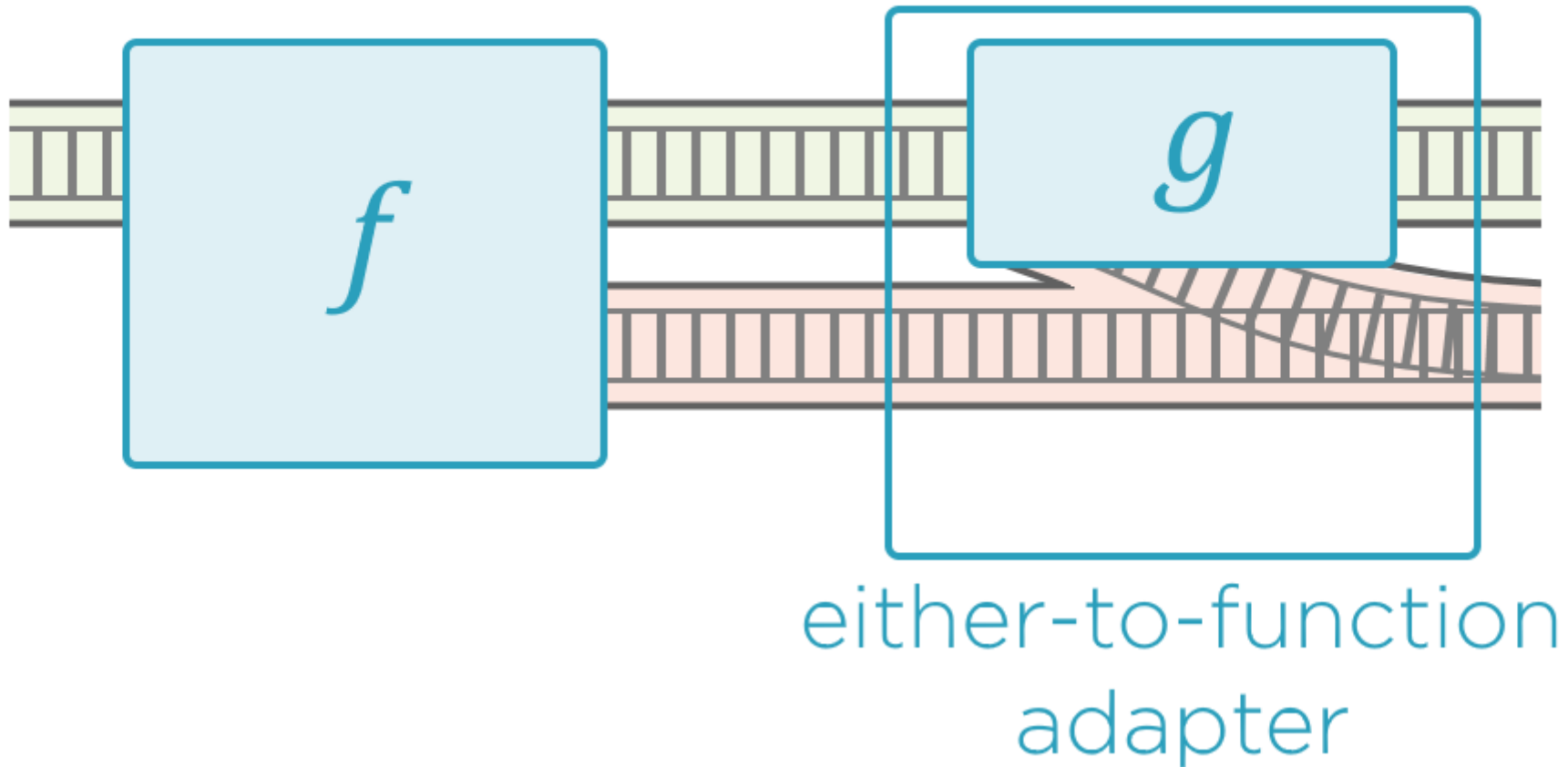
# Error Handling Adapters



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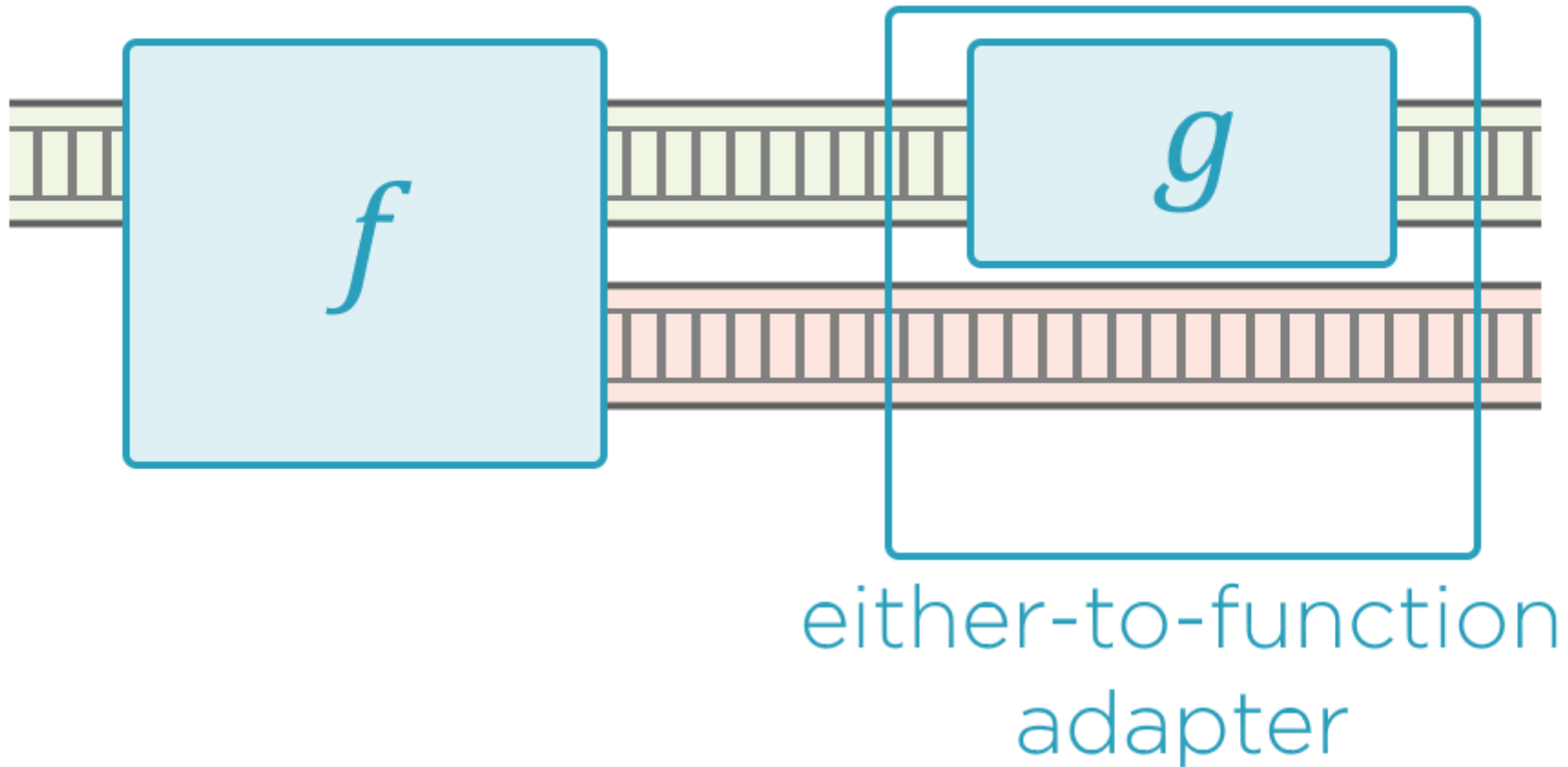


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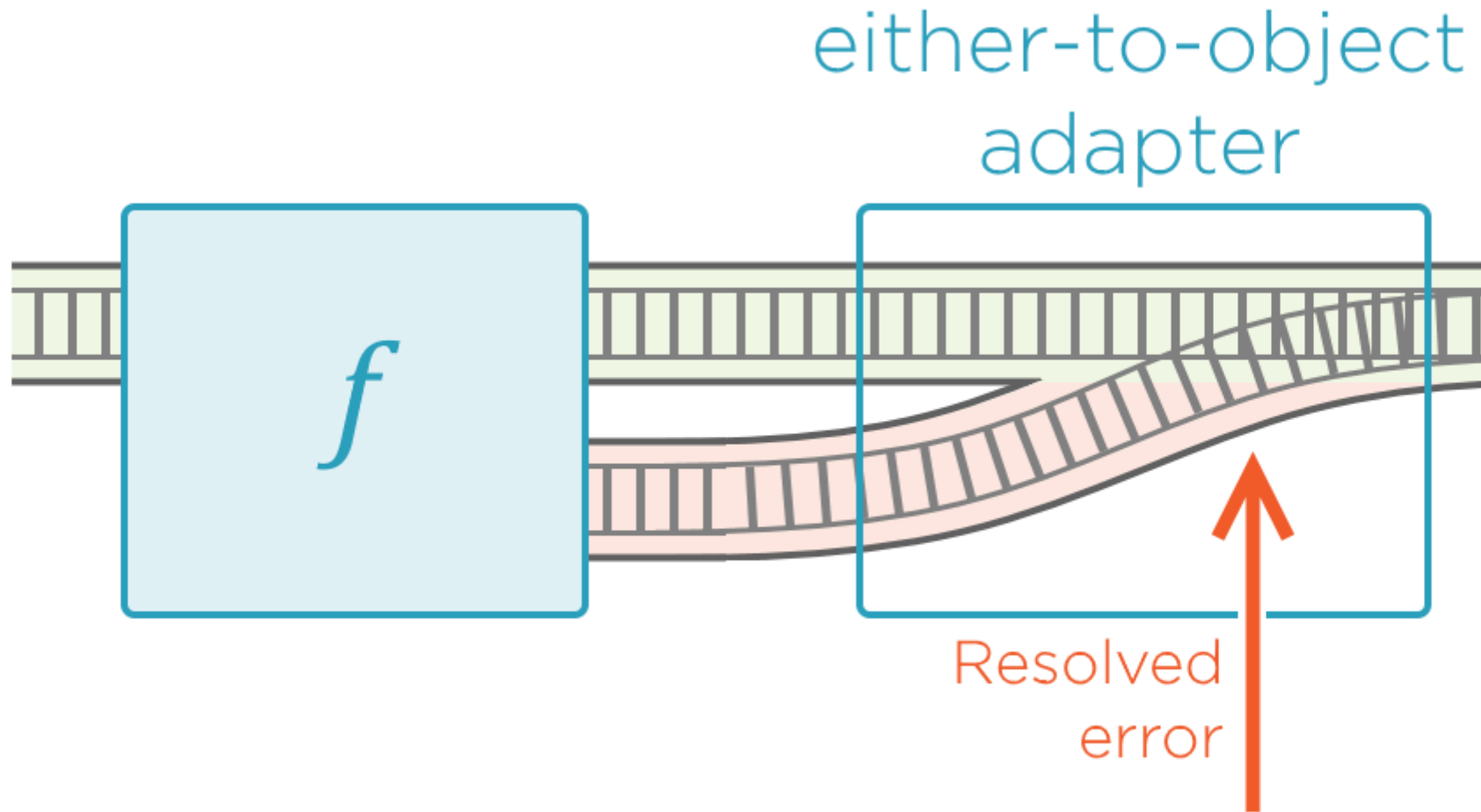




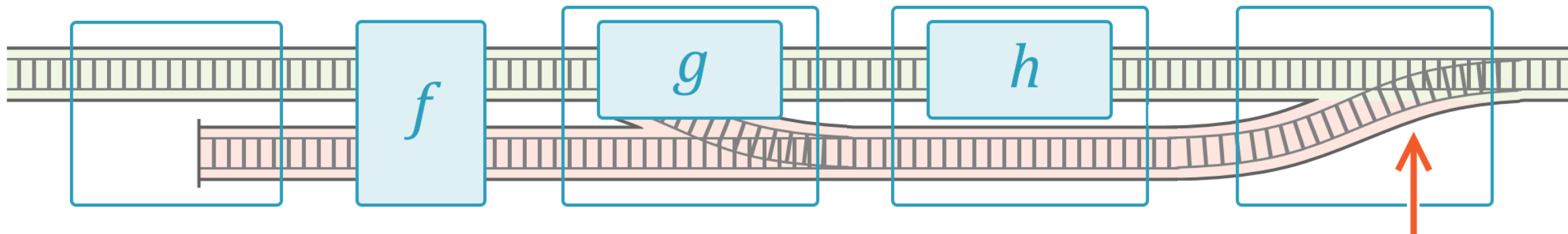
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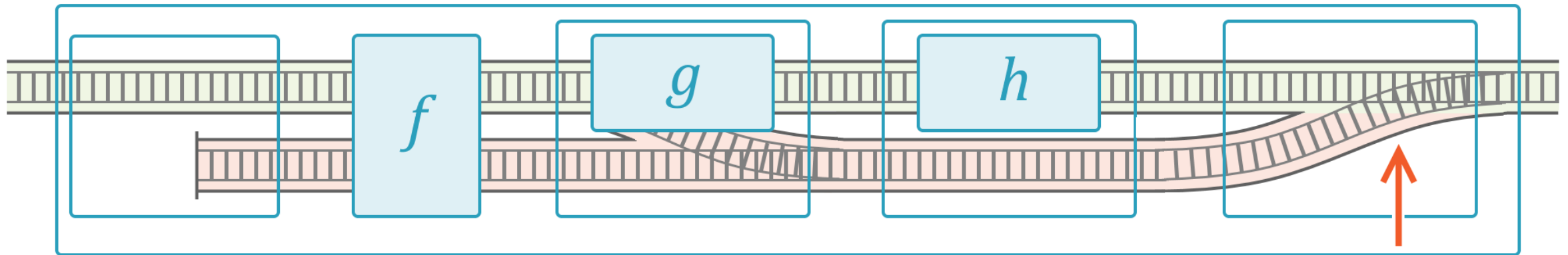
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# Summary



## Railway-oriented programming

- Either type holds result or error
- Adapters help use functions not aware of Either

## Example

- Use Option and Either in a Web API
- All queries are functional mappings

# Course Summary



## In this course you have learned to:

- Recognize where OO design fails
- Use extension methods to attach functions to a set of types
- Leverage pure functions to write simple and correct code
- Apply memoization to pure functions
- Control flow with pattern matching
- Organize behavior separate from types
- Compose large functions out of smaller ones
- Unify positive and negative flow with railway-oriented programming

