Consuming JSON with a DOM API

Richard Warburton

@richardwarburto   www.monotonic.co.uk

Module Outline

What Is a DOM API?

Jackson Demos
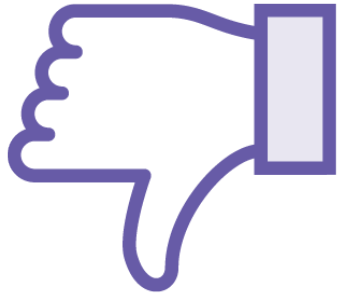
When Should You Use a DOM API?

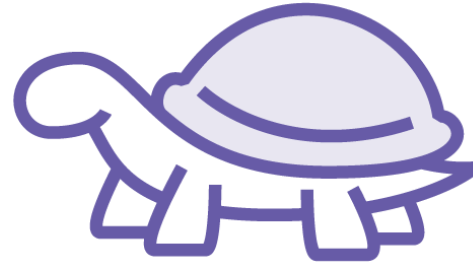# What Is a DOM API

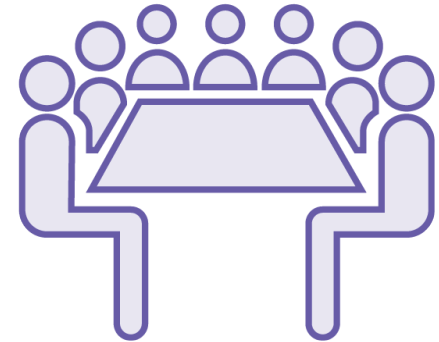You don't want to write your own JSON Parser

Reasons for Using a Library

Errors
Your custom JSON parser may be buggy

Performance
Existing parsers have had performance tuning

Productivity
Enables focus on solving your business domain problems

Document Object Model

API for describing the logical structure of a JSON document. Defines how to access and manipulate the document. Represents a JSON document as an object graph
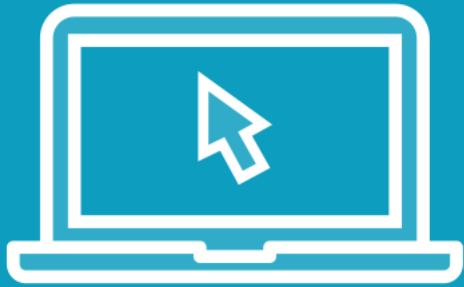
Jackson Demos

Demo

You will see how to:

1. Parse our bank loan JSON document

2. Pretty print it back out

3. Check an invalid JSON document

4. Traverse and process the DOM tree

Demo

Servlet Integration Demo

You will see how to:

1. Use ObjectMapper within a Servlet

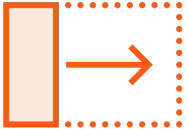**2. Process the bank loan JSON document**

When Should You Use a DOM API

Usage Patterns

Integration with unstable APIs - DOM offers flexibility to support different formats

API Evolution – supporting different versions of an API

Don't use for simple apps – we'll see better approaches soon

Summary

Summary

You've learned:

- What a DOM is

- How to use the Jackson DOM API

- When to use a DOM API

But isn't there a simpler way?