

# Convert bookstore .xml into .json

## Xml

```
<bookstore>
  <book>
    <title>Harry Potter</title>
    <author>J.K. Rowling</author>
    <price>29.99</price>
    <available>true</available>
  </book>
  <book>
    <title>The Hobbit</title>
    <author>J.R.R. Tolkien</author>
    <price>19.99</price>
    <available>false</available>
  </book>
</bookstore>
```

To convert the provided XML data into JSON, follow these steps:

1. **Identify the structure of the XML data:** Notice the hierarchy and elements within the XML.
2. **Map XML elements to JSON format:** Convert each XML element into a corresponding JSON key-value pair.

Here's the process explained step-by-step, followed by the actual conversion:

### Step-by-Step Process:

1. **Identify Root Element:** The root element is `<bookstore>`, which contains multiple `<book>` elements.
2. **Convert Elements to JSON Objects:**

- Each `<book>` element will be an object within a JSON array.
- The child elements (`<title>`, `<author>`, `<price>`, and `<available>`) become key-value pairs in the book objects.

## Conversion:

1. **Start with an empty JSON object** for the bookstore.
2. **Convert each book:** Each `<book>` element is converted to a JSON object with properties for `title`, `author`, `price`, and `available`.
3. **Combine into a JSON array:** Place all book objects into an array under the key "bookstore".

## JSON

```
{
  "bookstore": [
    {
      "title": "Harry Potter",
      "author": "J.K. Rowling",
      "price": 29.99,
      "available": true
    },
    {
      "title": "The Hobbit",
      "author": "J.R.R. Tolkien",
      "price": 19.99,
      "available": false
    }
  ]
}
```

```
]
}
```

### Explanation:

- The **root element** `<bookstore>` becomes a key in the JSON object.
- Each `<book>` is represented as an object within the "bookstore" array.
- The elements within each `<book>` (`<title>`, `<author>`, `<price>`, `<available>`) are converted to key-value pairs within the corresponding book object.