APIs

+ XML and JSON

Application Programming Interface

App → **request** → API

API → **DB query (HTML)** → Service

Service → **XML/JSON** → App

App
Secret Keys
Search Criteria
Parse Return

API
Call/Response
via HTTP

Service
Twtter
Instagram
NYTimes
etc…
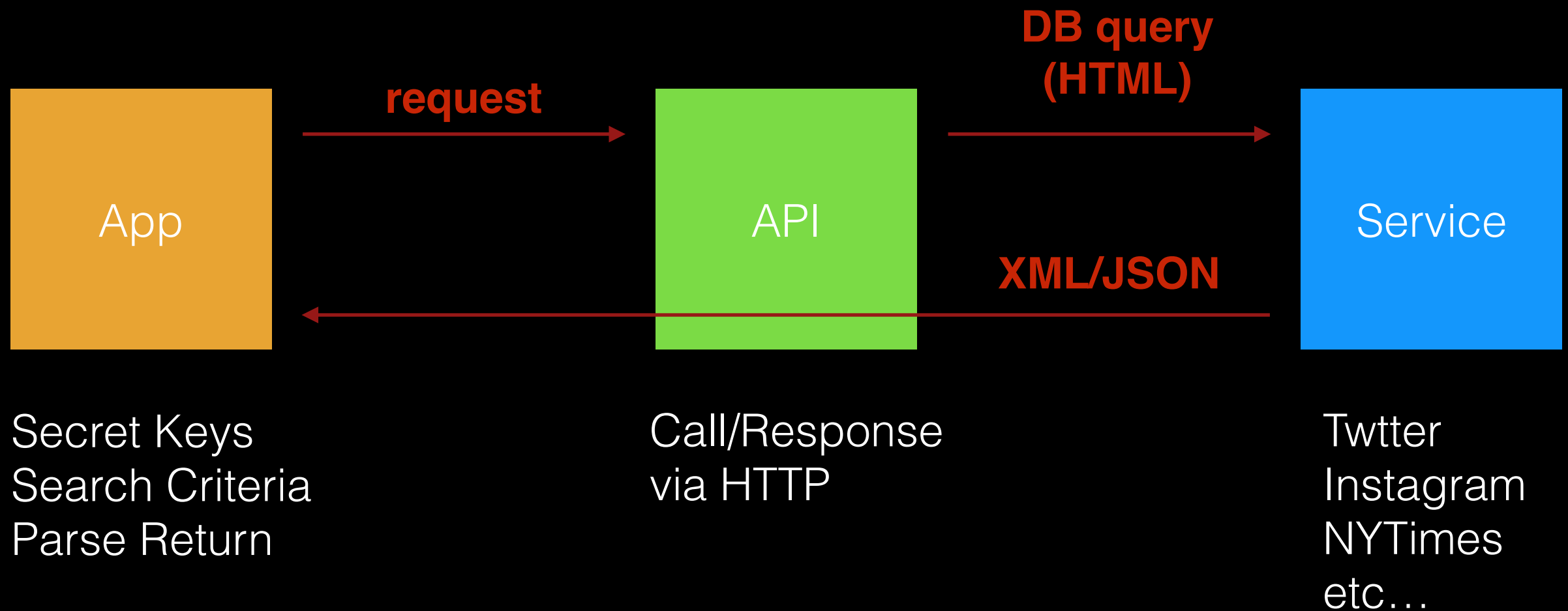
Temboo
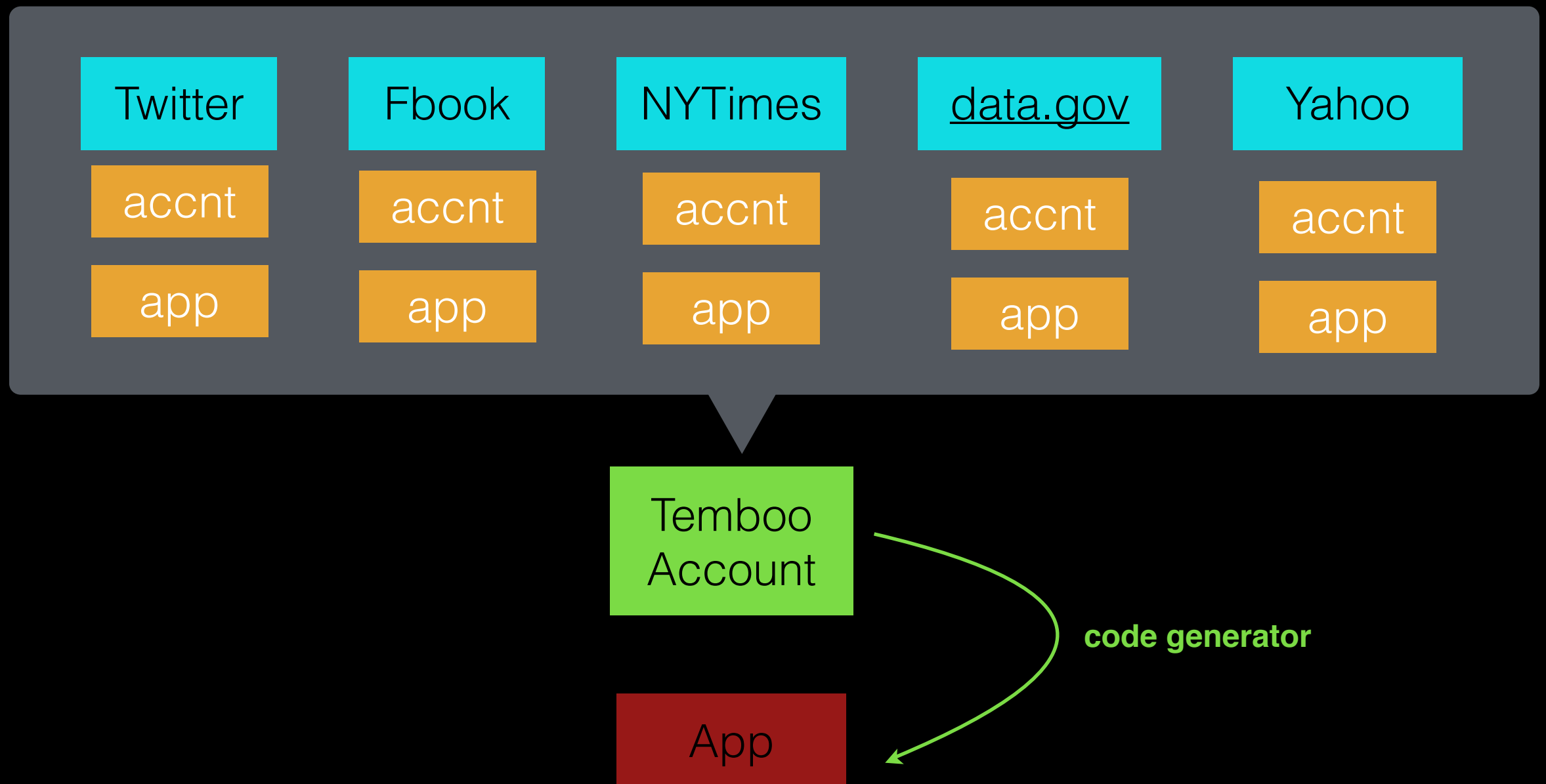
XML

```
<parent>

    <child>
    </child>

</parent>
```

XML

XML

Example File

XML

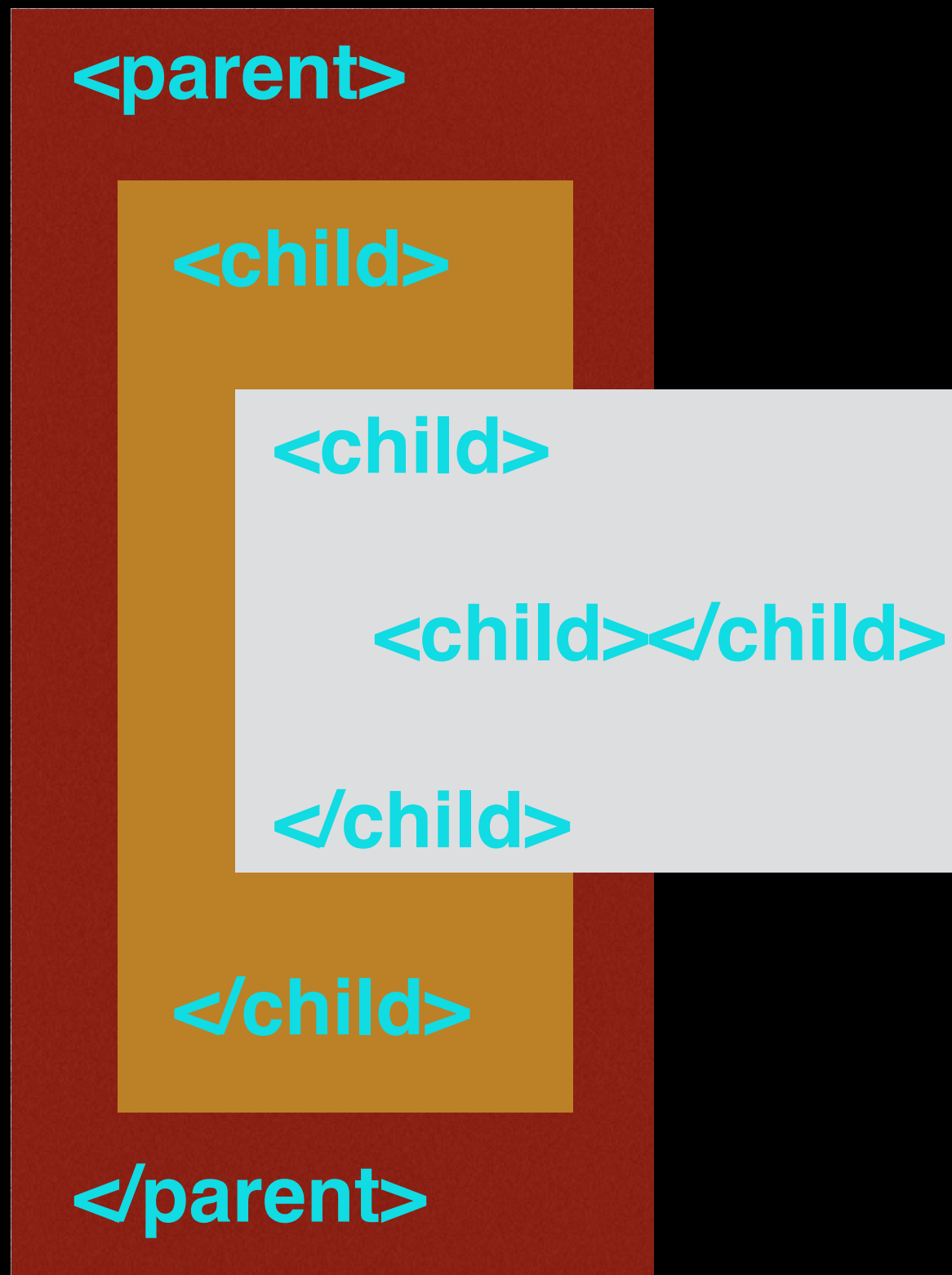## XML in Processing

JSON

```
{
    hey: "guy",
    anumber: 243,
  - anobject: {
        whoa: "nuts",
      - anarray: [
            1,
            2,
            "thr<h1>ee"
        ],
        more: "stuff"
    },
    awesome: true,
    bogus: false,
    meaning: null,
    japanese: "明日がある。",
    link: http://jsonview.com,
    notLink: "http://jsonview.com is great"
}
```

XML

JSON in Processing

Setup

1. Create account for API Service (Twitter, etc)

2. Register App with API Service

3. Receive Auth Keys

4. Enter info into Temboo account

   • Sign-in to Temboo

   • Select API from Library

   • Add credentials on left sidebar

5. Test query in browser

6. Copy/paste code

7. Refer to Temboo documentation for additional functions