
Sprint Review

Basics of CSV, JSON & XML

By: Tori Larson



devleague

Birthday Data in R and Python.

Upload a CSV file?

Comma,Separated,Values

FirstName,LastName,Birthday

Tori,Larson,5/26/2017

Ben,Trevino,4/14/2017

Justine,Espiritu,8/8/2017

JSON

Exactly like CSV.....right?

```
{"Birthdays":[  
  {"FirstName", "LastName", "Birthday"  
  {"Tori", "Larson", "05/26/2017"},  
  {"Ben", "Trevino", "04/14/2017"},  
  {"Justine", "Espiritu", "07/28/2017"}  
]}
```

Validate you JSON code here: <https://jsonlint.com/>

The screenshot shows a web-based JSON validation tool. The top section contains a text area with the following JSON code:

```
2  "Birthdays": [{  
3    "FirstName",  
4    "LastName",  
5  "Birthday" {  
6    "Tori",  
7    "Larson",  
8    "05/26/2017"  
9  },  
10 {  
11   "Ben",  
12   "Trevino",  
13   "04/14/2017"  
14 },  
15 {  
16   "Justine"
```

Below the text area are two buttons: "Validate JSON" and "Clear".

The "Results" section shows an error message:

```
Error: Parse error on line 3:  
...": [{          "FirstName",          "LastName",  
-----^  
Expecting ':", got ','
```

JSON FINAL

```
{"Birthdays":[  
  {"FirstName": "Tori", "LastName": "Larson", "Birthday": "05/26/2017"},  
  {"FirstName": "Ben", "LastName": "Trevino", "Birthday": "04/14/2017"},  
  {"FirstName": "Justine", "LastName": "Espiritu", "Birthday": "07/28/2017"}  
]}
```

XML

```
<?xmlversion="1.0" encoding="UTF-8"?>
<Birthdays>
  <Birthday>
    <FirstName>Tori</Firstname>
    <LastName>Larson</LastName> <Birthday>05/26/2017
  </Birthday>
  <Birthday>
    <FirstName>Ben</Firstname> <LastName>Trevino</LastName>
    <Birthday>04/14/2017</Birthday>
  </Birthday>
  <Birthday>
    <FirstName>Justine</Firstname> <LastName>Espiritu</LastName>
    <Birthday>08/14/2017</Birthday>
  </Birthdays>
```

JavaScript Syntax

To help you

Try to synta

www.w3schools.com says:

This page contains the following errors:
warning on line 1 at column 13: xmlParsePITarget: invalid name prefix 'xml'

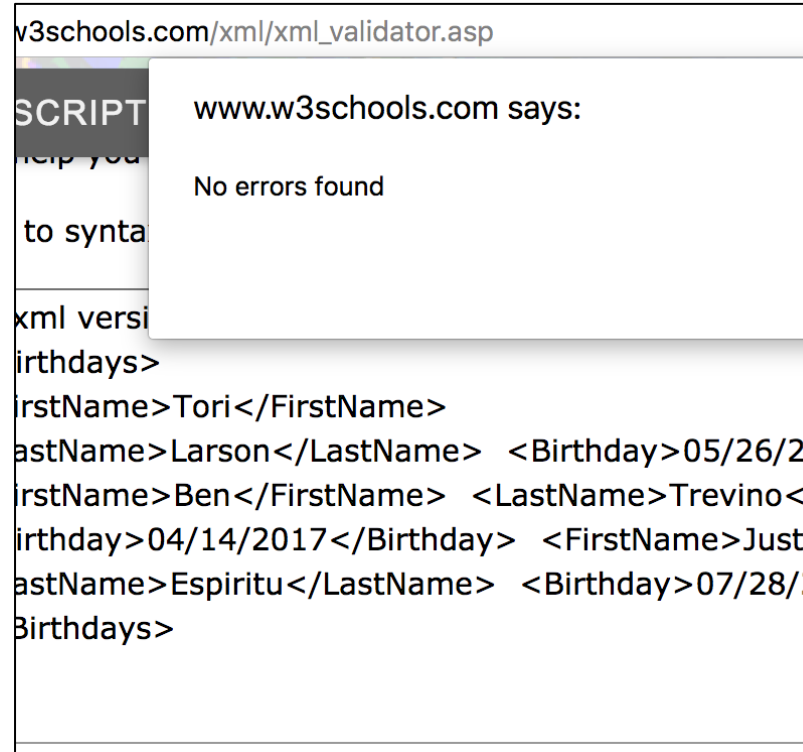
OK

```
<Birthday>05/26/2017</Birthday>
  </Birthday>
  <Birthday>
    <FirstName>Ben</Firstname> <LastName>Trevino</LastName>
    <Birthday>04/14/2017</Birthday>
  </Birthday>
  <Birthday>
    <FirstName>Justine</Firstname> <LastName>Espiritu</LastName>
    <Birthday>08/14/2017</Birthday>
  </Birthdays>
```



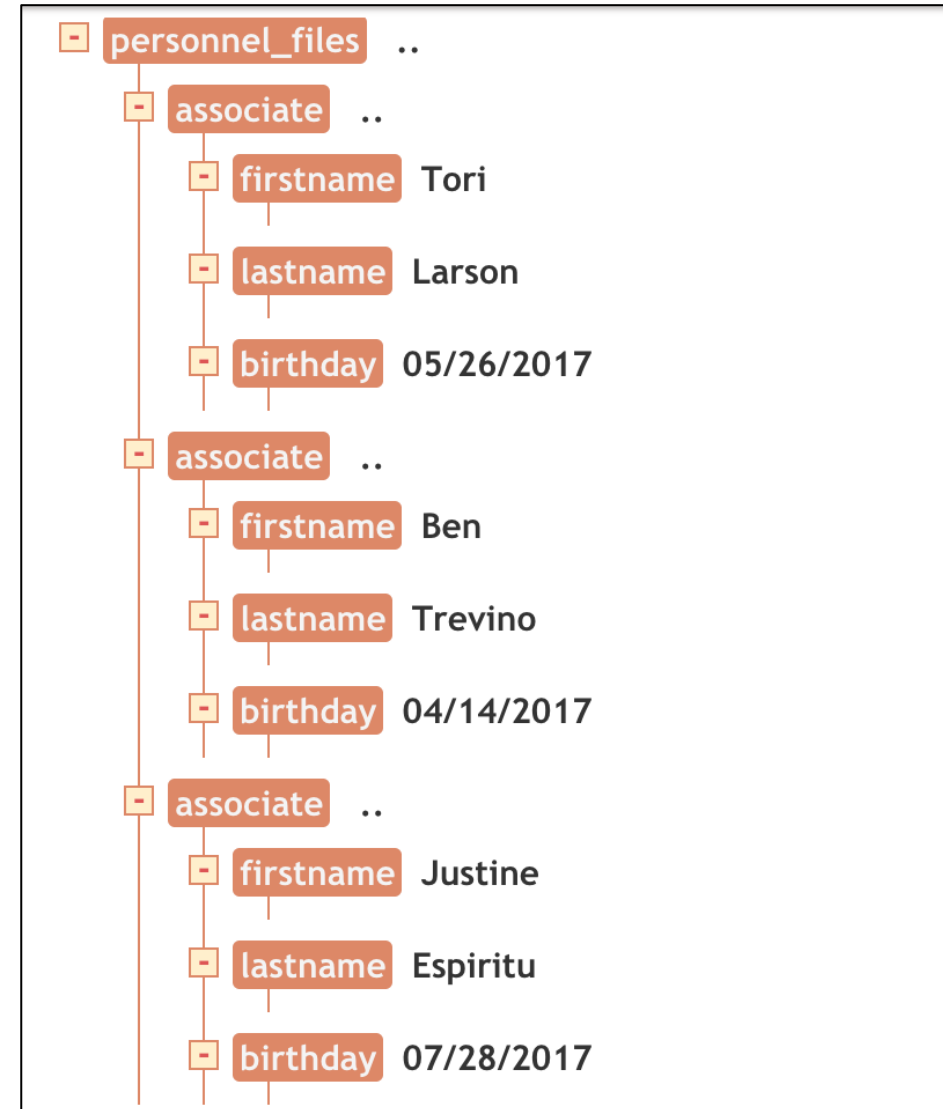
XML Tree

```
<?xml version="1.0" encoding="UTF-8"?>
<Birthdays>
  <FirstName>Tori</FirstName>
  <LastName>Larson</LastName>
  <Birthday>05/26/2017</Birthday>
  <FirstName>Ben</FirstName>
  <LastName>Trevino</LastName>
  <Birthday>04/14/2017</Birthday>
  <FirstName>Justine</FirstName>
  <LastName>Espiritu</LastName>
  <Birthday>07/28/2017</Birthday>
</Birthdays>
```



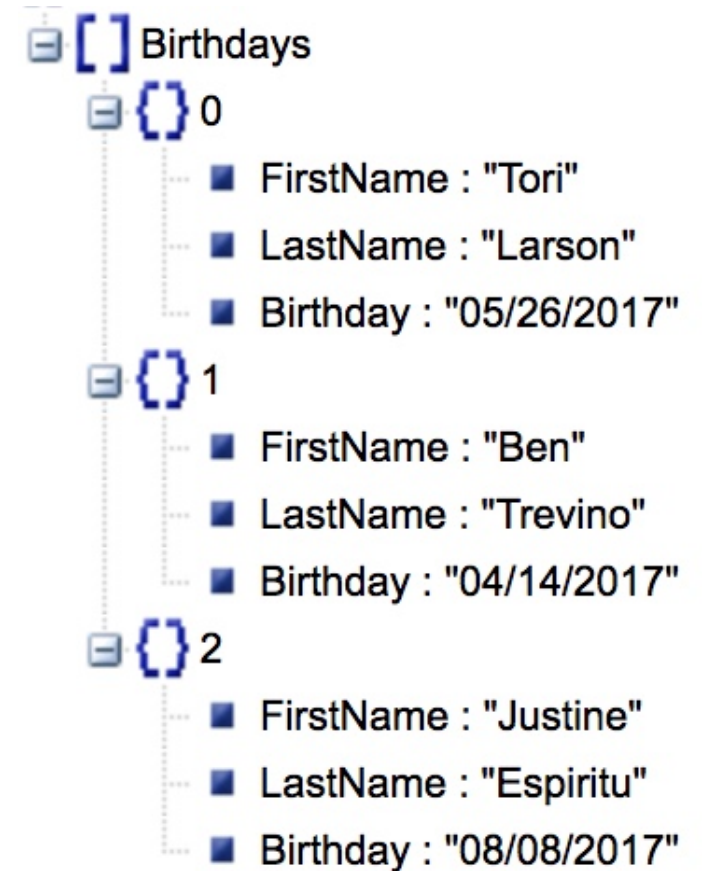
XML FINAL ATTEMPT WITH TREE

```
<?xml version="1.0" encoding="UTF-8"?>
<Personnel_Files>
  <Associate>
    <FirstName>Tori</FirstName>
    <LastName>Larson</LastName>
    <Birthday>05/26/2017</Birthday>
  </Associate>
  <Associate>
    <FirstName>Ben</FirstName>
    <LastName>Trevino</LastName>
    <Birthday>04/14/2017</Birthday>
  </Associate>
  <Associate>
    <FirstName>Justine</FirstName>
    <LastName>Espiritu</LastName>
    <Birthday>07/28/2017</Birthday>
  </Associate>
</Personnel_Files>
```

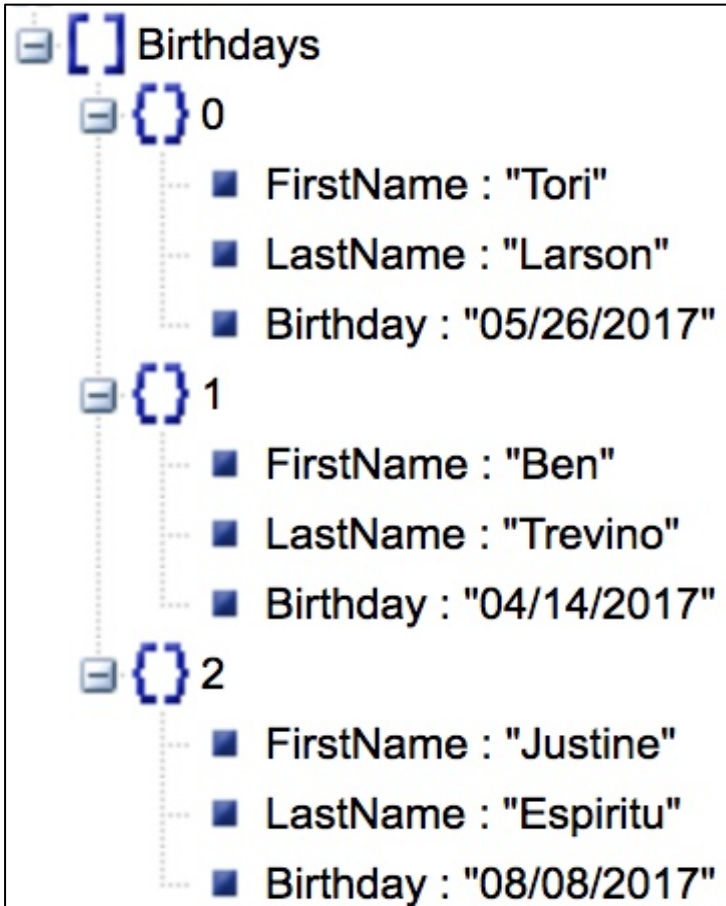


JSON TREE

```
{"Birthdays":[  
  {"FirstName": "Tori", "LastName": "Larson", "Birthday":"05/26/2017"},  
  {"FirstName": "Ben", "LastName": "Trevino", "Birthday": "04/14/2017"},  
  {"FirstName": "Justine", "LastName": "Espiritu", "Birthday": "07/28/2017"}  
]}
```



XML



JSON



CSV

Tori	Larson	5/26/2017
Ben	Trevino	4/14/2017
Justine	Espiritu	8/8/2017

XML

JSON

Result Data:

```
<?xml version="1.0"?>
<ROWSET>
<ROW>
<FirstName>Tori</FirstName>
<LastName>Larson</LastName>
<Birthday>5/26/2017</Birthday>
</ROW>
<ROW>
<FirstName>Ben</FirstName>
<LastName>Trevino</LastName>
<Birthday>4/14/2017</Birthday>
</ROW>
<ROW>
<FirstName>Justine</FirstName>
<LastName>Espiritu</LastName>
<Birthday>8/8/2017</Birthday>
</ROW>
</ROWSET>
```

```
<?xml version="1.0" encoding=
"UTF-8"?>
<Personnel_Files>
  <Associate>
    <FirstName>Tori</FirstName>
    <LastName>Larson</LastName>
    <Birthday>05/26/2017</Birthday>
  </Associate>
  <Associate>
    <FirstName>Ben</FirstName>
    <LastName>Trevino</LastName>
    <Birthday>04/14/2017</Birthday>
  </Associate>
  <Associate>
    <FirstName>Justine</FirstName>
    <LastName>Espiritu</LastName>
    <Birthday>07/28/2017</Birthday>
  </Associate>
</Personnel_Files>
```

```
[
  {
    "FirstName":"Tori",
    "LastName":"Larson",
    "Birthday":"5/26/2017"
  },
  {
    "FirstName":"Ben",
    "LastName":"Trevino",
    "Birthday":"4/14/2017"
  },
  {
    "FirstName":"Justine",
    "LastName":"Espiritu",
    "Birthday":"8/8/2017"
  }
]
```

```
{"Birthdays":[ {
  "FirstName": "Tori",
  "LastName": "Larson",
  "Birthday":"05/26/2017"
},
{
  "FirstName": "Ben",
  "LastName": "Trevino",
  "Birthday": "04/14/2017"
},
{
  "FirstName": "Justine",
  "LastName": "Espiritu",
  "Birthday": "07/28/2017"
}
]}
```



The End