

go-jmespath - A JMESPath implementation in Go

build **passing**

go-jmespath is a GO implementation of JMESPath, which is a query language for JSON. It will take a JSON document and transform it into another JSON document through a JMESPath expression.

Using go-jmespath is really easy. There's a single function you use, `jmespath.search` :

```
> import "github.com/jmespath/go-jmespath"
>
> var jsontdata = []byte(`{"foo": {"bar": {"baz": [0, 1, 2, 3, 4]}}}`) // your data
> var data interface{}
> err := json.Unmarshal(jsontdata, &data)
> result, err := jmespath.Search("foo.bar.baz[2]", data)
result = 2
```

In the example we gave the `search` function input data of `{"foo": {"bar": {"baz": [0, 1, 2, 3, 4]}}}` as well as the JMESPath expression `foo.bar.baz[2]` , and the `search` function evaluated the expression against the input data to produce the result `2` .

The JMESPath language can do a lot more than select an element from a list. Here are a few more examples:

```
> var jsontdata = []byte(`{"foo": {"bar": {"baz": [0, 1, 2, 3, 4]}}}`) // your data
> var data interface{}
> err := json.Unmarshal(jsontdata, &data)
> result, err := jmespath.search("foo.bar", data)
result = { "baz": [ 0, 1, 2, 3, 4 ] }
```

```
> var jsontdata = []byte(`{"foo": [{"first": "a", "last": "b"}, {"first": "c", "last": "d"}]}`) // your data
> var data interface{}
> err := json.Unmarshal(jsontdata, &data)
> result, err := jmespath.search({"foo[*].first", data)
result [ 'a', 'c' ]
```

```
> var jsontdata = []byte(`{"foo": [{"age": 20}, {"age": 25}, {"age": 30}, {"age": 35}, {"age": 40}]}`) // your data
> var data interface{}
> err := json.Unmarshal(jsontdata, &data)
> result, err := jmespath.search("foo[?age > `30`]")
result = [ { age: 35 }, { age: 40 } ]
```

You can also pre-compile your query. This is usefull if you are going to run multiple searches with it:

```
> var jsongdata = []byte(`{"foo": "bar"}`)
> var data interface{}
> err := json.Unmarshal(jsongdata, &data)
> precompiled, err := Compile("foo")
> if err != nil{
>     // ... handle the error
> }
> result, err := precompiled.Search(data)
result = "bar"
```

More Resources

The example above only show a small amount of what a JMESPath expression can do. If you want to take a tour of the language, the *best* place to go is the [JMESPath Tutorial](#).

One of the best things about JMESPath is that it is implemented in many different programming languages including python, ruby, php, lua, etc. To see a complete list of libraries, check out the [JMESPath libraries page](#).

And finally, the full JMESPath specification can be found on the [JMESPath site](#).