

### RAML介绍





# 为讨厌文档,喜欢编码的程序员量身定做——Somebody









Machine process-able
Human readable

Visual

The code generators

**API Notebook** 

## RAML介绍

#### 包含以下几个大的方面

- ■提供API基本信息—Basic Information
- ■用户文档—User Documentation
- 资源类型跟特征—Resource Types and Traits
- ■资源列表—Resources.

#### 版本选择







## RAML结构

- For every API, start by defining which version of RAML you are using, and then document basic characteristics of your API the title, baseURI, and version.
- Create and pull in namespaced, reusable libraries containing data types, traits, resource types, schemas, examples, & more.
- Annotations let you add vendor specifc functionality without compromising your spec
- Traits and resourceTypes let you take advantage of code reuse and design patterns
- Easily define resources and methods, then add as much detail as you want. Apply traits and other patterns, or add parameters and other details specific to each call.
- Describe expected responses for multiple media types and specify data types or call in pre-defined schemas and examples.

  Schemas and examples can be defined via a data type, in-line, or externalized with linclude.
- Write human-readable, markdown-formatted descriptions throughout your RAML spec, or include entire markdown documentation sections at the root.

```
#%RAML 1.0
title: World Music API
baseUri: http://example.api.com/{version}
version: v1
uses:
  Songs: !include libraries/songs.raml
annotationTypes:
 monitoringInterval:
   parameters:
     value: integer
traits:
  secured: !include secured/accessToken.raml
/songs:
  is: secured
 get:
    (monitoringInterval): 30
    queryParameters:
      genre:
        description: filter the songs by genre
  post:
 /{songId}:
    get:
      responses:
        200:
          body:
            application/json:
              type: Songs.Song
            application/xml:
              schema: !include schemas/songs.xml
```

example: !include examples/songs.xml

```
Songs Library

#%RAML 1.0 Library

types:
Song:
properties:
title: string
length: number

Album:
properties:
title: string
songs: Song[]

Musician:
properties:
name: string
discography: (Song | Album)[]
```

```
Songs.xml

//xml version="1.0" encoding="UTF-8"?>
//xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema"
//xs:elementFormObefault="qualified" attributeFormObefault="unqualified">
//xs:element name="iong">
//xs:element name="iong">
//xs:element name="title" type="ss:string">
//xs:element>
```



## RAML可用的编译器



Atom



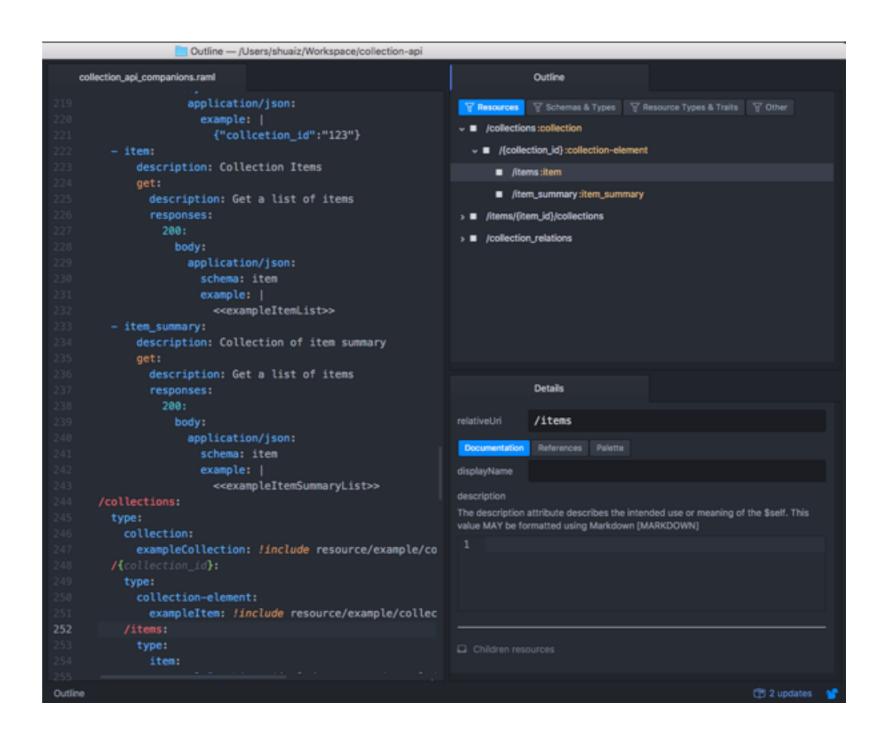


**API Workbench** 









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# 基本语法

关于RAML基本的用法

#### 基本语法

#### 基本的RAML第一行必须是以下面的内容开头:

#%RAML 0.8

#### 必须包含的元素:

title: < API Title >

#### 更多的信息:

点我

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# 进阶语法

RAML的进阶用法,可以提高代码的复用性

#### 进阶语法

- Schema—JSON对象的约束
  - 学习地址
- Resource Type—定义一个符合CRUD操作的可重用资源
  - 一般写法:

resourceTypes:

- resource-name:

CURD

Reserved Parameters: 保留的关键字

- <<resourcePath>> : /songs
- <<resourcePathName>> : songs

Parameters Transformers: 关键字转化(只支持英语)

- !singularize 单数
- !pluralize 复数

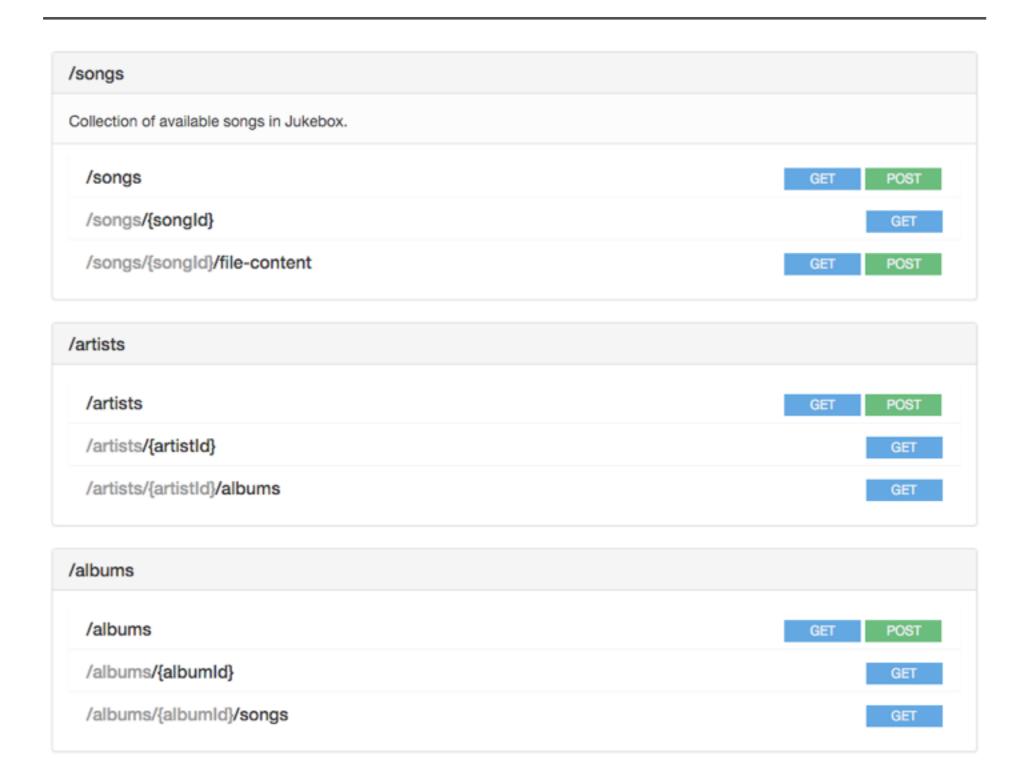
可以复写resourceType里面的定义的方法(类似OOP的继承概念)

Parameters: 自定义的替换关键字

- <<custom name>> must be implement when using this resource type
- ■Include—JSON对象的约束
  - · !include 文件的分割

# 

# RAML的可视化





# Q&A



# 塘地

#### 有问题请联系

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