

HTTP API

BUT FIRST, WHO AM I?

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SPEAKER & ORGANIZER

_ @ GROWBOTS (PREV. HOE @ POLIDEA)

API
REST
HATEOAS

A DESIGN PATTERN

NOT A SPECIFICATION*

BIKESHEDDING

WORDS. WORDS. WORDS...

REPRESENTATIONAL STATE TRANSFER

COMMON ISSUES

COMMON ISSUES

MEDIA TYPES

application/json

application/vnd.growbots.v2.json

COMMON ISSUES

EMBEDDING RELATIVES

```
GET /user/184
```

```
{  
  "name": "Bob",  
  "location": {  
    "country": "United States",  
    "city": "San Francisco"  
  }  
}
```

GET /user/184

```
{  
  "name": "Bob",  
  "location": 845  
}
```

GET /locations/845

...

GET /user/184

```
{  
  "name": "Bob",  
  "location": "http://myservice/locations/845"  
}
```


COMMON ISSUES

MODIFICATIONS

/hotels/3734/reservations/345/confirm

POST /hotels/3734/reservations/345/confirm

PUT /hotels/3734/reservations/345

```
PUT /hotels/3734/reservations/345
```

```
{  
  "customer": 225325,  
  "dateStart": "...",  
  ...  
  "confirmed": true,  
  ...  
}
```

```
PATCH /hotels/3734/reservations/345
```

```
{  
  "confirmed": true  
}
```

VERSIONING

```
GET /users/1
```

```
{  
  "name": "Walter White"  
}
```



```
GET /users/1
```

```
{  
  "firstName": "Walter",  
  "lastName": "White"  
}
```

GET /users/1

Accept: application/vnd.growbots.v1+json

GET /v1/users/1

GET /users/1

Host v1.myservice.com

NAKED OBJECTS/LISTS

```
GET /users
```

```
[  
  {"name": "Bob"},  
  ...  
]
```

GET /users

```
[  
  250,  
  {"length": ...},  
  {"meta": ...},  
  {"name": "Bob"},  
  ...  
]
```

GET /users

```
{  
  "data": [  
    {"name": "Bob"},  
    ...  
  ]  
}
```


GET /users

```
{  
  "data": [  
    {"name": "Bob"},  
    ...  
  ],  
  "size": 250  
}
```

```
GET /users/123
```

```
{  
  "data": {  
    "name": "Bob"  
  }  
}
```

```
GET /users/123
```

```
{  
  "name": "Bob",  
  "lastModified": "2016-..."  
}
```

{JSON:API}

```
{
  "links": {
    "self": "http://example.com/articles",
    "next": "http://example.com/articles?page[offset]=2",
    "last": "http://example.com/articles?page[offset]=10"
  },
  "data": [{
    "type": "articles",
    "id": "1",
    "attributes": {
      "title": "JSON API paints my bikeshed!"
    },
    "relationships": {
      "author": {
        "links": {
          "self": "http://example.com/articles/1/relationships/author",
          "related": "http://example.com/articles/1/author"
        },
        "data": { "type": "people", "id": "9" }
      }
    },
    "links": {
      "self": "http://example.com/articles/1"
    }
  }],
  "included": [{
    "type": "people",
    "id": "9",
    "attributes": {
      "first-name": "Dan",
      "last-name": "Gebhardt",
      "twitter": "dgeb"
    },
    "links": {
      "self": "http://example.com/people/9"
    }
  }]
}
```

IN A NUTSHELL

HAVE A GOOD ONE!