HTTP API

BUT FIRST, WHO AM I?

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_ @ 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}

```json
{
  "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!