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Developers Guide to the ArcGIS REST APIs

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What is the ArcGIS REST API?

[Resources](#)

REST

Representational State Transfer

A way to get stuff on the web.

HTTP Verbs

GET RETRIEVE

POST CREATE/SEND DATA

PUT UPDATE

DELETE DELETE

<http://domain.com/resources/files/file25>

JSON

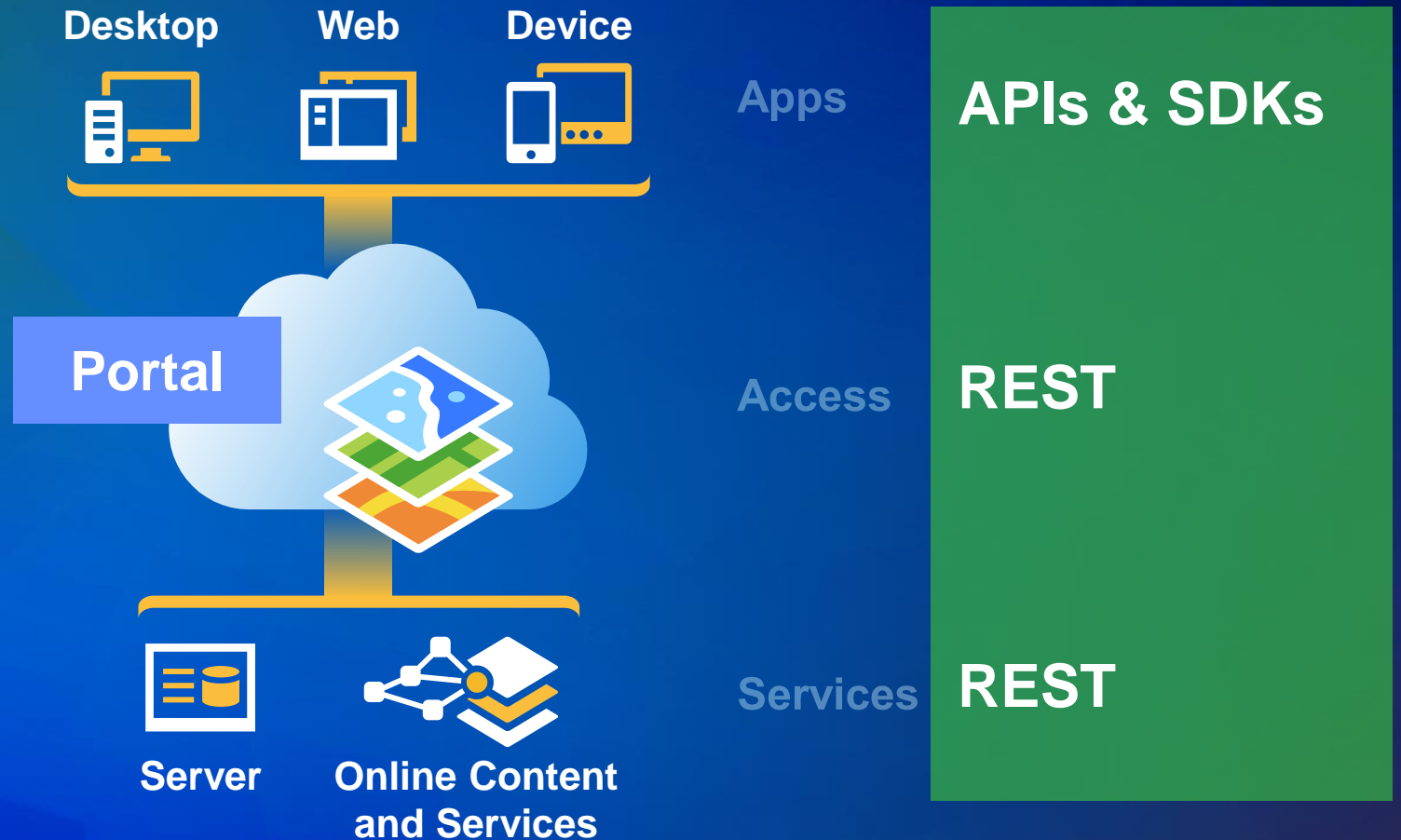
Javascript Object Notation

```
{
  "firstName": "John",
  "lastName": "Smith",
  "isAlive": true,
  "age": 25,
  "height_cm": 167.6,
  "address": {
    "streetAddress": "21 2nd Street",
    "city": "New York",
    "state": "NY",
    "postalCode": "10021-3100"
  },
  "phoneNumbers": [
    {
      "type": "home",
      "number": "212 555-1234"
    },
    {
      "type": "office",
      "number": "646 555-4567"
    }
  ],
  "children": [],
  "spouse": null
}
```

Watch it live

Evan

ArcGIS



<http://geocode.arcgis.com/arcgis/rest/services/world/GeocodeServer/findAddressCandidates?>

<PARAMETERS>

Javascript

iOS

Android

```
});
```

```
//initialize geocoder
```

```
var geocoder = new esri.dijit.Geocoder({  
  map: map,  
  autoNavigate: false,  
  maxLocations: 20,  
  value: "Portland, OR coffee shops"  
}, "searchDiv");
```

```
geocoder.startup();
```

Endpoints

- **ArcGIS for Server**
 - <https://<server>/arcgis/rest/services/>
- **Portal for ArcGIS**
 - <https://webadaptor.domain.com/sharing/rest>
- **ArcGIS Online:**
 - <https://www.arcgis.com/sharing/rest/>
- **Geocoding**
 - <https://geocode.arcgis.com/arcgis/rest/services/World/GeocodeServer/>
- **Geoenrichment**
 - <http://geoenrich.arcgis.com/arcgis/rest/services/World/geoenrichmentserver/>

REST APIs

Geocoding

Routing

GeoEnrichment

Feature Services

Map Services

Spatial Analysis

Elevation Analysis

Geometry Operations

Managing Content and Users

Why?

City of Philadelphia

REST Hands On

Sam

Developing Apps

Evan

Links

- [The ArcGIS REST API](#)
- [Developers Site](#)
- <https://github.com/ecaldwell>
- <https://github.com/sam-berg>
- [Geocoding Example](#)
- [ArcGIS Online Assistant](#)
- [Postman Chrome Extension](#)



Understanding our world.