**Open Street Map API:**

**Advantages:**

According to *Why use OpenStreetMap?* (no date), Though there are minor regional differences, OpenStreetMap offers worldwide map data in a single tagging scheme. Every nation on Earth has data available, and in many cases, the quality of the data is very good. Also, since it's open, you can contribute to raising the standard.

**Why use *OpenStreetMap?***

1.Open Data Free to Use: OSM is available for free, which can save a lot of money—especially on high-usage applications.  
No Licensing Fees: Since there are no licensing fees, there is flexibility in the use and sharing of the data.

2. Community-Driven Up-to-Date Data: Compared to certain commercial choices, OSM frequently has more recent data because it is updated continuously by a worldwide community of contributors.  
Local Knowledge: Contributors may offer thorough local knowledge, such as features and routes that would not be shown on for-profit maps.

3. Customisation:  
Flexible Styling: Whether it's for utility or looks, users can alter the style of the map to meet their own requirements.  
Access to Raw Data: When creating custom applications or conducting analysis, developers can gain access to raw map data.

4. Adaptability  
Numerous Use Cases: OSM has a broad range of applications, from simple mapping to intricate GIS systems.  
Rich Features: It accommodates a wide range of geographic features, such as paths for bicyclists and hikers as well as routes for public transportation.

5. Cooperation  
Standard forms: OSM data may be easily integrated with other GIS tools and software because it is available in standard forms such as GeoJSON and XML.

6. No Usage Limitations  
High Usage Tolerance: Compared to many commercial APIs, which frequently have rate constraints, there are typically fewer limitations on the number of queries that can be made.

7. Advocacy for Open Standards  
Encouragement of Open Source Tools: To encourage creativity and teamwork, OSM advocates for the adoption of open-source standards and applications.

**In brief**  
Your unique demands will determine which mapping API—OpenStreetMap or another—is best for you. OSM is a good option if cost, flexibility, and open data are your top priorities. A commercial API can be more appropriate if you need sophisticated features, uptime assured, or expert support.

Other Map API’s Example:

1. Google Maps API

2. Mapbox

3. Bing Maps

4. TomTom Maps API.

*Why use OpenStreetMap?* (no date) *OpenStreetMap*. Available at: https://welcome.openstreetmap.org/why-openstreetmap/#:~:text=OpenStreetMap%20provides%20global%20map%20data,can%20also%20help%20improve%20quality. (Accessed: 17 October 2024).