

Service-based APIs

By jingyi zhang u26578499

1. Google Maps API

Syntax: REST-based, offering rich URL request options.

Status: Widely used, stable.

Documentation: Very comprehensive, with numerous examples.

Versioning: Version specified through URL path.

2. YouTube API

Syntax: REST-based, supports client libraries in multiple languages.

Status: Widely used, stable.

Documentation: Detailed, easy to understand.

Versioning: API version specified in the URL.

3. Twitter API

Syntax: RESTful, supports various data formats.

Status: Widely used, continually updated.

Documentation: Very detailed, includes developer guides and tutorials.

Versioning: Clear version number management.

Library-based APIs

1. TensorFlow API

Syntax: Python-first but also supports C++, Java, and other languages.

Status: Widely used, continuously updated.

Documentation: Very comprehensive, including API reference, tutorials, and guides.

Versioning: Follows semantic versioning.

2. Numpy API

Syntax: Designed for Python, easy to use.

Status: Stable, the de facto standard for scientific computing.

Documentation: Detailed, includes tutorials and reference manuals.

Versioning: Follows semantic versioning.

3. Keras API

Syntax: Python, designed to be simple and easy to learn.

Status: Stable, tightly integrated with TensorFlow.

Documentation: Exhaustive, with rich examples.

Versioning: Follows semantic versioning.

Hardware-based APIs

1. OpenGL

Syntax: Cross-language, most widely used with C/C++.

Status: Mature and stable, but replaced by newer APIs like Vulkan on some new platforms.

Documentation: Comprehensive but complex, may be difficult for beginners.

Versioning: Clear version numbers, good backward compatibility.

Browser APIs

1. Mozilla Web APIs

Syntax: JavaScript, closely integrated with web standards.

Status: Continuously updated, following the evolution of web technologies.

Documentation: MDN provides extremely detailed documentation and examples.

Versioning: Typically not a concern for developers, managed by browser vendors.

2. Chrome APIs

Syntax: JavaScript, designed for Chrome extension development.

Status: Stable, but only available in the Chrome environment.

Documentation: Google provides detailed development documentation and guides.

Versioning: Closely related to Chrome versions.

Summary

Service-based APIs are primarily oriented towards web services, with syntax and usage modes relatively unified, emphasizing cross-platform compatibility and ease of use.

Library-based APIs focus on providing rich functionality for specific programming languages.