### What is Sharepoint?

参考：https://docs.microsoft.com/en-us/sharepoint/dev/general-development/sharepoint-development-overview

A Web-based collaborative platform that integrates with MS Office. Briefly, it is a document management and storage system(企业级协作和内容管理)

从Tenant的角度说，

Sharepoint is a development platform for framework and Add-ins.

**Sharepoint 版本**：

* Sharepoint Server 本地环境，公司、机构掌控
  + Sharepoint Standard
  + Sharepoint Enterprise
* Sharepoint Online(趋势！ 多租户的平台)，MS 掌控。公司可以租用
  + Addional capabilities: SPF extension…
  + Missing capabilities: some search and UI customization …

参考：https://en.wikipedia.org/wiki/SharePoint

One of the most popular web parts in SharePoint Online is the Script Editor

SharePoint的网站归为两类

* 一类是要进行协作的团队网站，所有成员都可以参与内容创作、协作等；
* 一 类是通信网站（或者准确地说是沟通网站，英文是Communication Site），它一般用来在企 业内部发布内容，大部分用户只是查看

??? Modern and classic pages ???

### Development

Sharepoint is for building client-side components, add-ins and solutions

SharePoint Online 不支持服务器场和沙箱解决方案，但是继续支持用户直接在浏览器中定制 和“开发”页面（可以写少量的脚本，改样式），以及通过SharePoint Designer进行定制（网页 的高级定制，工作流定制等），与此同时，它还支持下面两种开发模式

1. SharePoint Add-in开发，允许开发人员独立开发一个Web应用，然后用iframe的方式嵌入到SharePoint的页面或者网站中去.。
2. SharePoint Framework开发，允许开发人员使用全新的客户端开发手段，定制Web Part 和Extension。
3. Add ins for mobility features development

SharePoint Add-in的开发（在2013年提出来）可用于SharePoint Server，也可以用于SharePoint Online.

Sharepoint Framework(16年提出的)

经过一段时间的发展，要有全新的一套框架来重 新定义SharePoint的开发。具体而言，希望能用更加原生的Web开发技术来实.

通过编程访问SharePoint的资源，例如列表，文档库等, 需要Sharepoint Online 的REST API (<https://msdn.microsoft.com/en-us/library/office/jj860569.aspx>), 现在也支持在Microsoft Graph中直接访问(但有限，<https://developer.microsoft.com/zh-cn/graph/docs/api-reference/v1.0/resources/sharepoint>)

**SharePoint 2016 弃用的接口导致的协议处理程序错误**

### **Programming Models**

* SharePoint Framework
* SharePoint Add-ins
* SharePoint publishing sites
* SharePoint farm solutions
* Mobile add-ins for SharePoint
* Reusable components for SharePoint