

### **Apps for Office**

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#### office in the world

1 billion office users (1 in 7)

3.5 million office online users

250 million people use onedrive

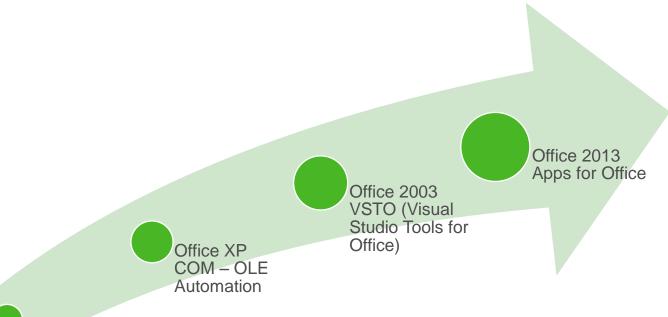
50% of fortune 500 use Azure

office works on the web, phones, tablets, desktops

yammer lync sharepoint cloud



### a little history



Office 97
Windows
DLLOffice 2000
COM
Components

Office 5
VBA macros
(Visual Basic for Applications)



#### before today...

- deployment was done with DLLs where Office is installed
- code executes within the Excel process
- data stays within the XLS file
- code is outside the XLS file (except for VBA)
- deployment update cycle is horrible
- with locked down computers, users cannot install plugins themselves, relying on IT instead



#### what changed

the cloud

byod

office web apps & office rt

smart phones & tablets

web technologies web deployment model & store



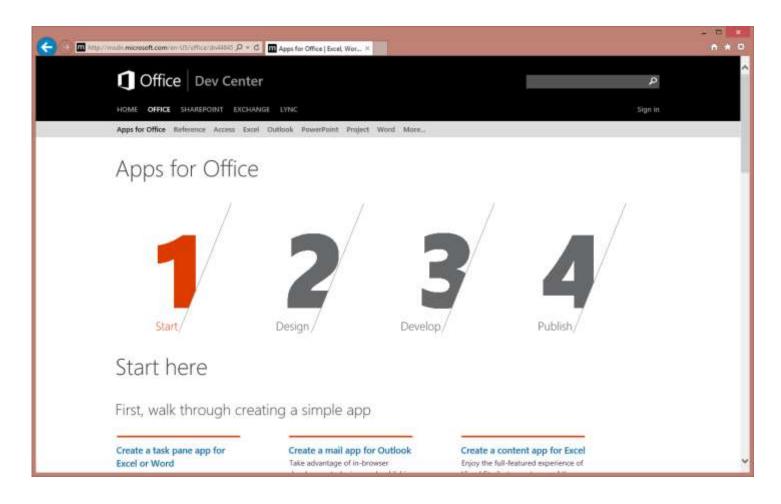
#### enter apps for office

- a new extension model that works on desktops, tablets, phones, the web and beyond
- an API exposed through Javascript, consumable by web technologies
- discoverable through a store (80% royalty back to the developer)
- the app is actually a web site, displaying it`s content within office



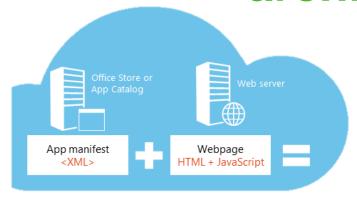
#### how to get started

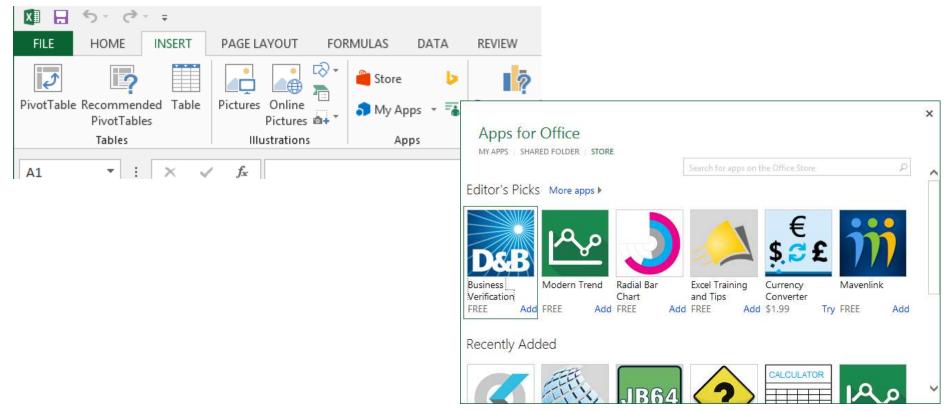
http://msdn.microsoft.com/en-US/office/dn448457





#### architecture

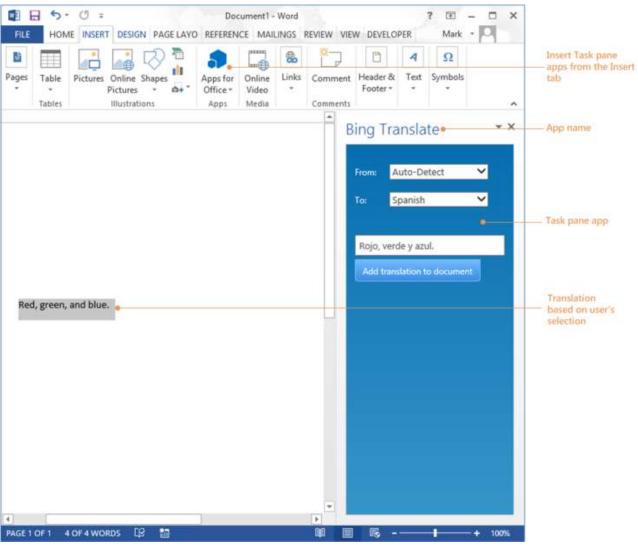






#### task pane apps

accompanies the file

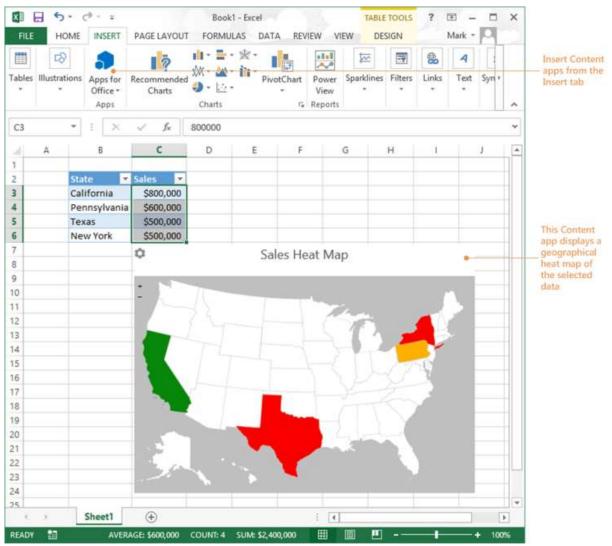




#### content pane apps

part of the file

an image is saved with the file as well as settings to rehydrate the pane from the web





#### demo using word (task)

- open word
- add an app, do something with it
- save the file
- open the file
- open the file with no network connectivity
- open the file with 7zip and show the plugin stuff



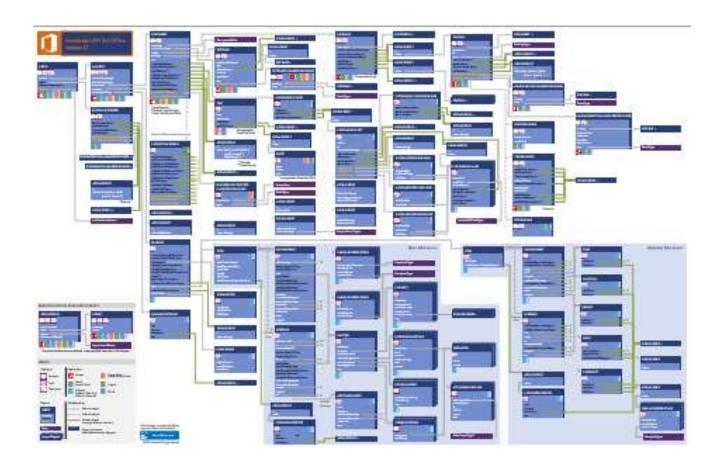
#### demo using excel (content)

- open excel
- add an app, do something with it
- save the file
- open the file
- open the file with no network connectivity
- open the file with 7zip and show the offline image and settings



### apps for office API schema

http://zoom.it/Oinl#full





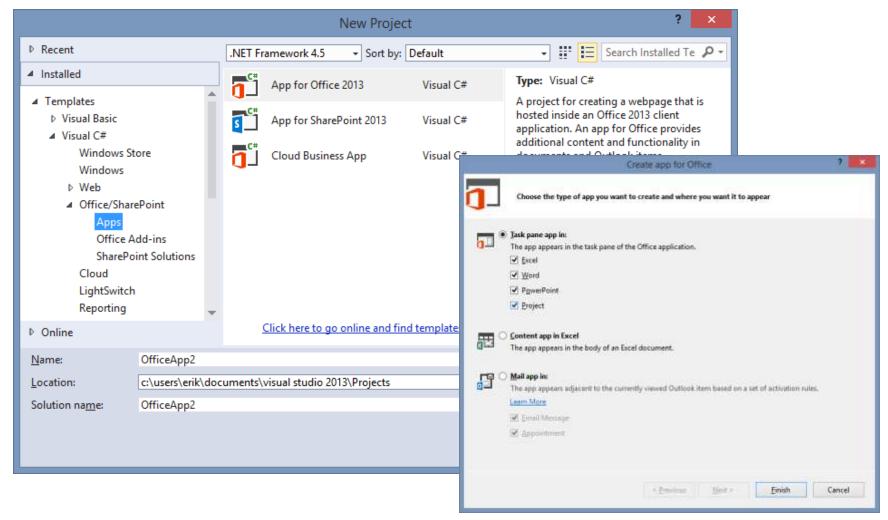
# apps for office API in javascript

```
// Queries the binding for its data
function displayDataForBinding(binding) {
    binding.getDataAsync(
            coercionType: Office.CoercionType.Matrix,
            valueFormat: Office.ValueFormat.Unformatted,
            filterType: Office.FilterType.OnlyVisible
        },
        function (result) {
            if (result.status === Office.AsyncResultStatus.Succeeded) {
                displayDataHelper(result.value);
            } else {
                $('#data-display').html(
                    '<div class="notice">' +
                        <h2>Error fetching data!</h2>' +
                         <a href="../DataBinding/DataBinding.html">' +
                             <br/>
<b>Bind to a different range?</b>' +
                         </a>' +
                    '</div>');
   );
```



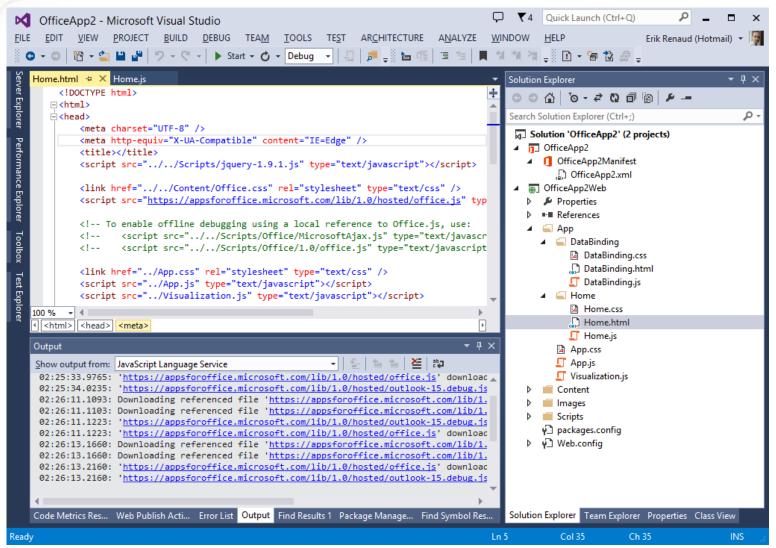
# how do we buid these new apps

#### Visual Studio 2013...





#### and what does that give you





## demo building an app for office

- open visual studio
- create a new app for office
- look at the manifest
- look at the web structure
- press f5



#### more more more

- binding types
- version 1.1
- apps for outlooks are contextual based on the item type
- apps for sharepoint follow a similar philosophy
- apps can be deployed internally through a catalog or through the store
- server technologies range from ASP.NET MVC to AngularJS to bootstrap reactive designs, do not forget authentication



#### demo of a production app

- open the apps website
- open the app through excel

