



# SharePoint Framework

## Tools and work flow























# SharePoint Framework (SPFx)

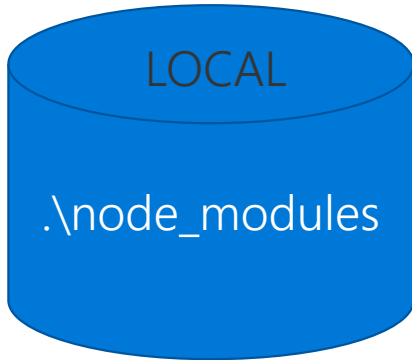
- New client-side page and web part model
- Modern and responsive – allows “mobile first” development for SharePoint
- SPFx web parts work on both classic and client-side pages
- First-Party Web Parts  
Image, Document, O365 Video, Content Embed, Highlighted Content, News Headlines, News List, Quick Links, Site Activity, Yammer Feed
- It's still early! Open questions:
  - How will branding work?
  - How flexible will the page layout be?
  - What additional web parts will be available?

# Open Source Tools

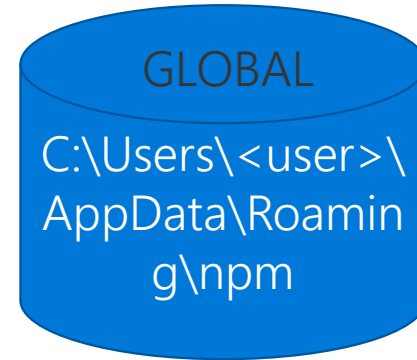
Links are case sensitive!

	Trad		New		
Templating	Visual Studio		Yeoman		<a href="http://bit.ly/SPF-Yeoman">http://bit.ly/SPF-Yeoman</a>
Language	C#, JavaScript		Typescript		<a href="http://bit.ly/SPF-TypeScript">http://bit.ly/SPF-TypeScript</a>
Runtime Env't	.NET, JS		Any JS Framework		<a href="http://bit.ly/SPF-JSFrameworks">http://bit.ly/SPF-JSFrameworks</a>
Code Editor	Visual Studio		Visual Studio Code (or your choice)		<a href="http://bit.ly/SPF-VSCode">http://bit.ly/SPF-VSCode</a>
Packages	nuget		npm	 	<a href="http://bit.ly/SPF-npm">http://bit.ly/SPF-npm</a>
Task Runner	Visual Studio		Gulp	 	<a href="http://bit.ly/SPF-Gulp">http://bit.ly/SPF-Gulp</a>
Compiler	Visual Studio		tsc	 	<a href="http://bit.ly/SPF-TypeScript">http://bit.ly/SPF-TypeScript</a>
Bundling	Visual Studio		WebPack	 	<a href="http://bit.ly/SPF-WebPack">http://bit.ly/SPF-WebPack</a>

# Node Package Manager



*npm install package-name*



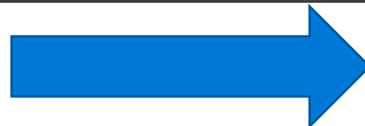
*npm install package-name -g*

Install all packages for project  
(e.g. after downloading source code)



npm install

Check what's outdated



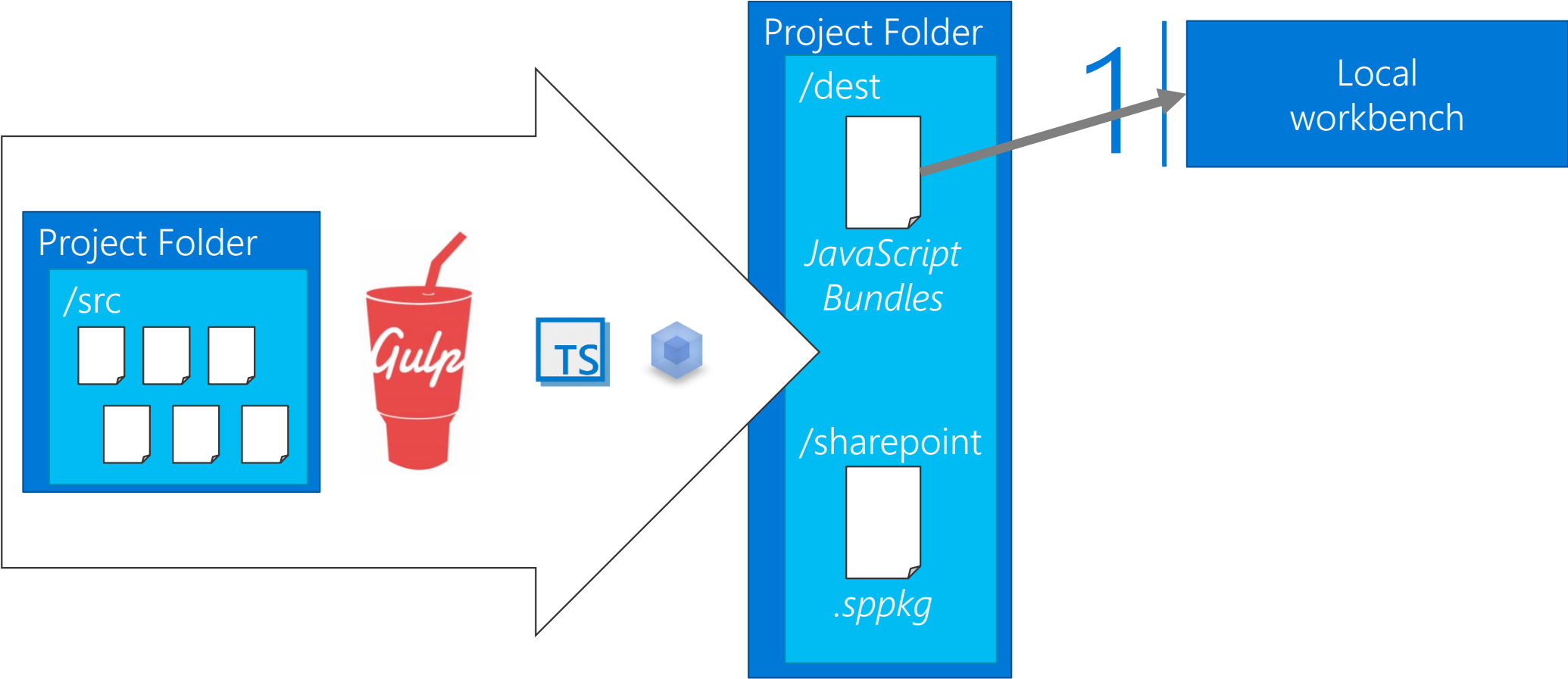
npm outdated  
npm outdated -g

Update something that's outdated

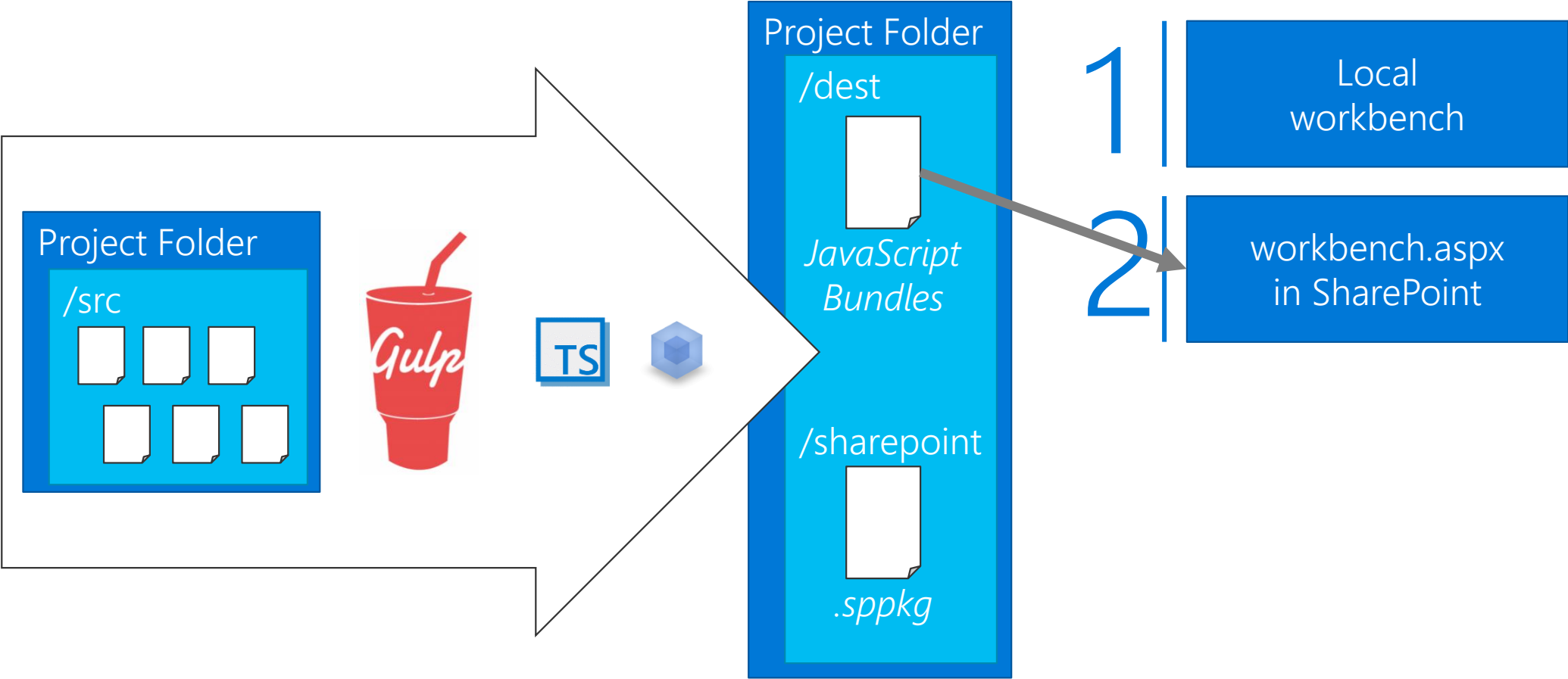


npm install package-name@latest  
or  
npm install package-name@latest -g

# SP Framework Development Process

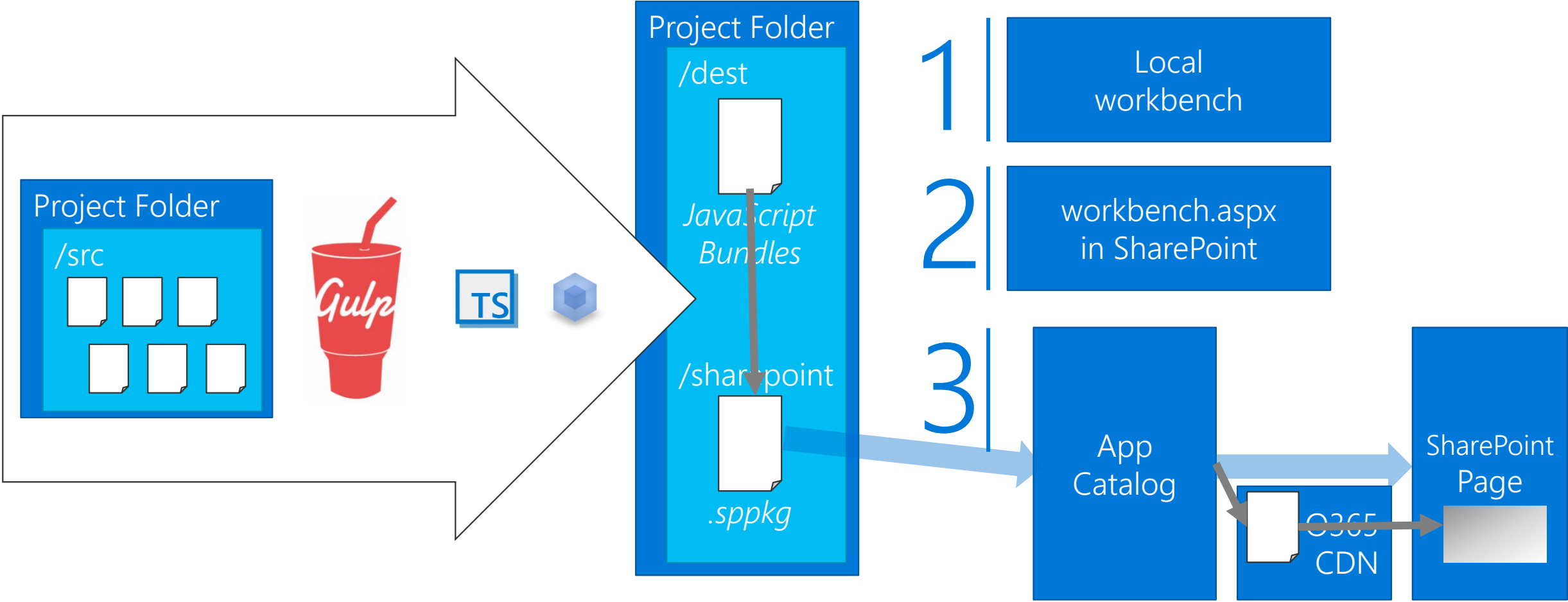


# SP Framework Development Process



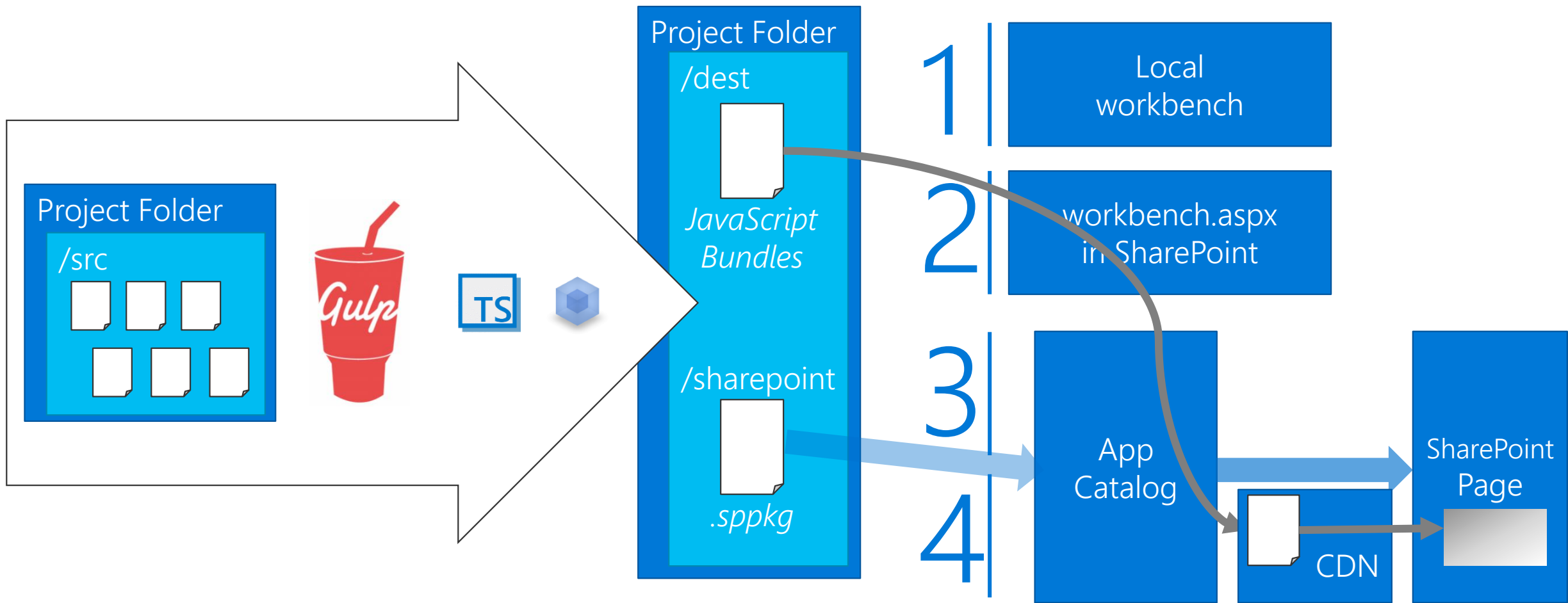
# SP Framework Development Process

Option 1: Office 365 CDN (SP Online)



# Office 365 CDN deployment

Option 2: Other CDN (SP Online or 2016)





# Don't Panic!

What you are about to see is everyday development for open source web developers.

Have you noticed?  
Microsoft is going open source!



# yo @microsoft/sharepoint

Part 1:

- Creating a project
- Using the SharePoint Workbench



Recycle Bin



Cmder



C:\Users\Bob\Source\Repos\SPFx-Playground\demo (master)

λ



cmd.exe

Search



# yo @microsoft/sharepoint

Part 2:

- Packaging and Uploading to SharePoint
- Viewing on Classic and Modern pages





# Resources

## SPFx Tool chain

- <http://bit.ly/SPF-Yeoman>
- <http://bit.ly/SPF-TypeScript>
- <http://bit.ly/SPF-JSFrameworks>
- <http://bit.ly/SPF-VSCode>
- <http://bit.ly/SPF-npm>
- <http://bit.ly/SPF-Gulp>
- <http://bit.ly/SPF-TypeScript>
- <http://bit.ly/SPF-WebPack>

## Office Dev Center – SPFx Resources

- <http://bit.ly/SPFxResources>

## Bob's SPFx samples

- <https://link.bobg.tv/SPFxBGSamples>

