

# Excel Programming Info Sheet

	VBA	Python (Python in Excel)	Office Scripts (TypeScript)	DAX	Power Query (M)
<b>What's it for in Excel?</b>	Automation of data, structure, file system, integration with other Office apps	Data analytics, data science, data cleaning, data viz, etc	Task automation and integration with Power Automate.	Dimensional data modeling via Power Pivot	Data extraction, transformation, and loading (ETL)
<b>Can it control the local file system?</b>	Yes	No	No	No	No
<b>Can it control workbook formatting and structure?</b>	Yes	No	Yes (with limitations)	No	No
<b>Platform: Desktop</b>	Yes	Yes	Yes	Yes	Yes
<b>Platform: Mac</b>	Yes (with limitations)	No	Yes	No	Yes (with limitations)
<b>Platform: Web</b>	No	No	Yes	No	Yes
<b>What else can it do?</b>	Interact with other Office apps, build custom user forms.	Parsing web pages, text analytics, natural language processing, machine learning and much more	Automate across Office suite via online API, integrate with cloud services, automate workflows via Power Automate.	Advanced data modeling and analytics in Power BI and Fabric	Robust ETL, connect to various data sources, transform data for reporting, works within Microsoft Fabric.
<b>Career opportunities</b>	Medium	Very High	High	High	High
<b>Why should I learn this?</b>	If you are planning a career in Office application automation	Python extends far beyond Excel and is one of the two main languages for Data Science	For workflow automation tasks involving Power Automate. Stepping stone to web development with JavaScript	For Analytics Engineering using Microsoft Fabric and Power BI, DAX is essential	For Analytics Engineering using Microsoft Fabric and Power BI, Power Query is essential. Builds an understanding of functional programming which can help with learning other languages