

# twinBASIC & AI:

## A Glimpse of the Future for Access Developers

twinBASIC is a project by Wayne Phillips  
creator of vbWatchdog and other fine products at [everythingaccess.com](http://everythingaccess.com)

Presented by Mike Wolfe of [nolongerset.com](http://nolongerset.com)

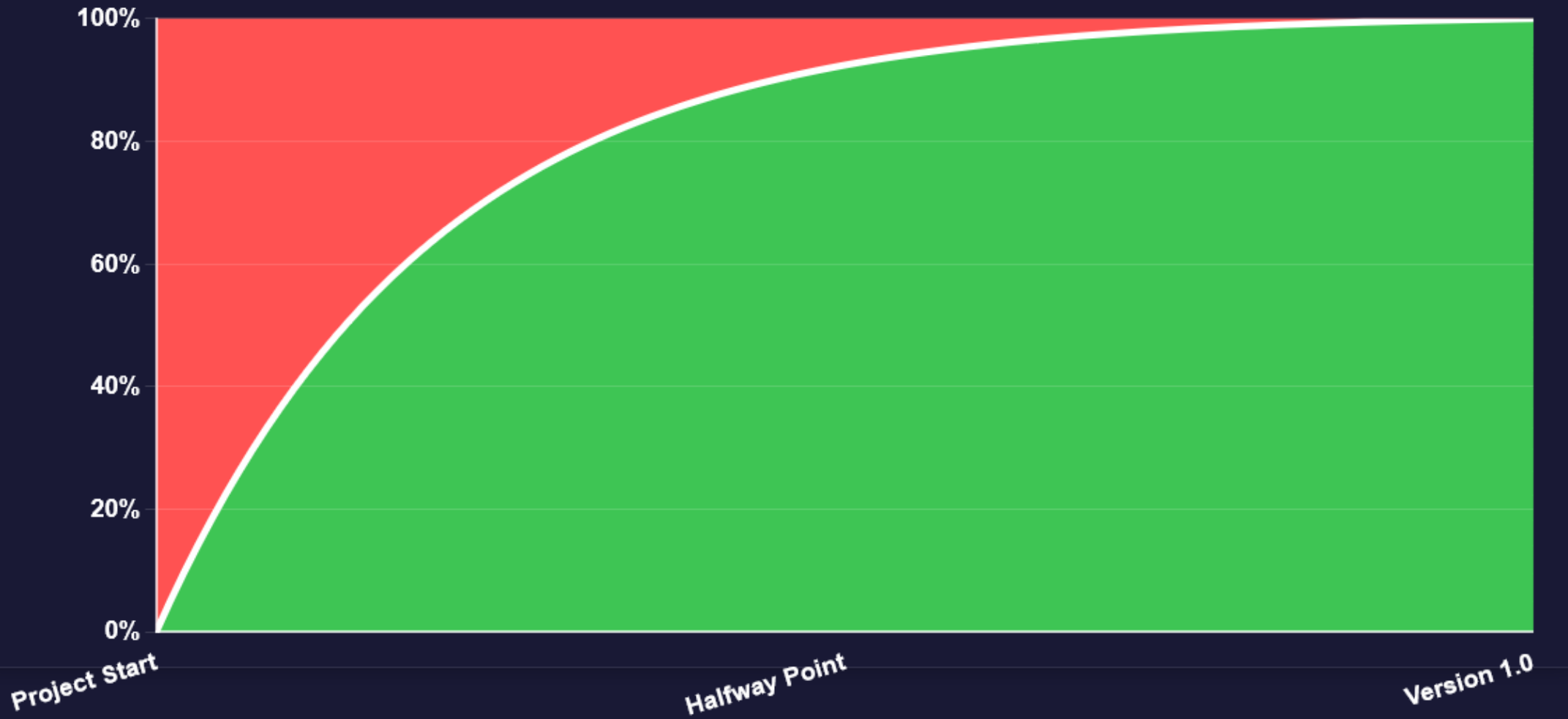
# What is twinBASIC?

- Fully Compiled Language
- 100% Backwards Compatible (VBA/VB6)
- New Language Features
  - Generics, class constructors, Return syntax, Unicode everywhere, inline initialization, AndAlso/OrElse, method overloading

# Progress Update

- Create **Windows Services**
- MDI Forms and Access-like Reports
- Static Library Support (SQLite, libdeflate)
- Compatibility: ActiveX, Forms, Events
- V1 Tentative Release Date: 1 JUL 2025

# VB6 Compatibility Progress



# Big VB6 Projects



# Reports

## Country Population

Top 100 countries, by population, according

COUNTRY NAME

> 1 BILLION

1 China

2 India

The screenshot shows the twinBASIC IDE interface with a report design for 'Country Population'. The report is divided into several sections:

- Report Header:** Contains the title 'Country Population' and subtitle 'Top 100 countries, by population, according to ChatGPT as of 16-July-2024'. A blue 'EXAMPLE' stamp is present in the top right corner.
- Page Header:** Contains the title 'Country Population' and subtitle 'Top 100 countries, by population, according to ChatGPT as of 16-July-2024'.
- Table:** A table with columns 'COUNTRY NAME', '> 1 BILLION', 'POPULATION', and 'RUNNING SUM'. The first two rows are visible, corresponding to the data in the left panel.
- Report Detail:** Contains a QR code in the bottom right corner.
- Page Footer:** Contains a large empty box for page numbering.
- Report Footer:** Contains the text '< end of report >'.

# Windows Services

- Samples for simple and complex services
- Log to Windows Events
- Support for Inter-Process Communication
- Opens new possibilities for Access devs

# What Could *You* Build?



Monitor File Drops for  
Automated Data Import



Scheduled Data Cleanup or  
Archiving Tasks



Sync Access Data with Web  
APIs or Services 24/7



Provide Real-time Database  
Change Notifications



Run Backend Processes  
Without Needing User Login



Automate Updating of  
Access Front-End Files





# twinBASIC for Applications



**twinBASIC / EverythingAccess**

@WaynePhillipsEA · [Follow](#)



Introducing "twinBASIC for applications" – the game-changing drop-in replacement for VBA (and VBA SDK). See our proof of concept inside MS ACCESS in action! 🚀



[#twinBASIC](#) [#VBA](#) [#Office](#)

# tBA: Integration Levels (*Tentative*)

## Full Language Replacement

Performance

Generics

Multi-  
threading

Needs tBA  
Runtime

## “Transpilable” Syntax Support

Return

AndAlso

Inline Init

## VBA IDE Replacement

CodeLens

Sticky Scrolling

Inline Code  
Hints

# Licensing – Subscription-Based

Community	Professional	Ultimate
FREE	GBP £26   EUR €29   USD \$35 /mo*	GBP £39   EUR €45   USD \$52 /mo*
Create 32/64-bit EXE/DLLs	All Standard features plus:	All Professional features plus:
Splash screen for 64-bit	No splash screen on 64-bit EXE/DLL	Private product support via email
Windows only (unoptimized compilation)	Optimized compilation (still Windows-only)	Cross-platform support (Linux/Mac/Android)

\* Pricing shown reflects a 35% pre-order discount (discounted forever)

- Commercial use, royalty-free license for *all editions*
- VIP Gold Lifetime License: **GBP £5000**
- Perpetual license offer for DevCon attendees in chat

# Questions?

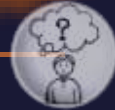
Links and Resources:

[nolongerset.com/devcon-2025/](https://nolongerset.com/devcon-2025/)

# What is an LLM?

Misconception

Search  
Engine



Submit Query Terms



Match Against Indexed Content



Rank & Return Existing Documents



Process Complete Context



Calculate Token Probabilities



Generate New Text Sequentially

Reality

# Code-Reading Mentor

{ } Everyone knows that **debugging is twice as hard** as writing a program in the first place. So if you're as clever as you can be when you write it, **how will you ever debug it?**

*-Brian Kernighan, "The Elements of Programming Style, Second Edition"*

# Code-Writing Intern

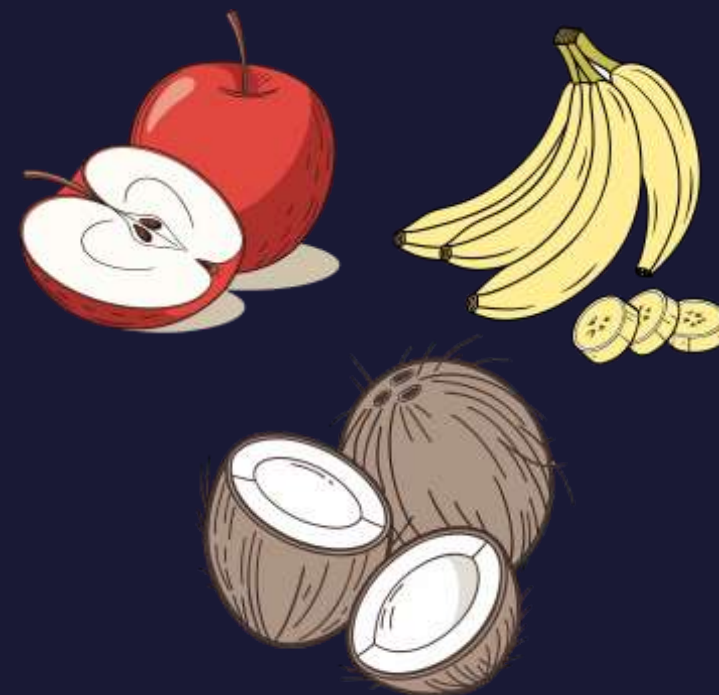
**Code is easy**, it's the **logic**  
behind the code that is  
complex.

- User 'Morons', on Software Engineering Stack Exchange



# Understanding the Context Window

	Apples?
Apples are red and round.	
	Bananas?
Bananas are yellow, unlike apples.	
	Coconuts?
Coconuts are round, unlike bananas.	





# Managing Context for Long Chats



Keep conversations focused on a **single topic**



Summarize **large documents** in standalone chats



Ask the AI to **summarize key points** to use as a new starter prompt

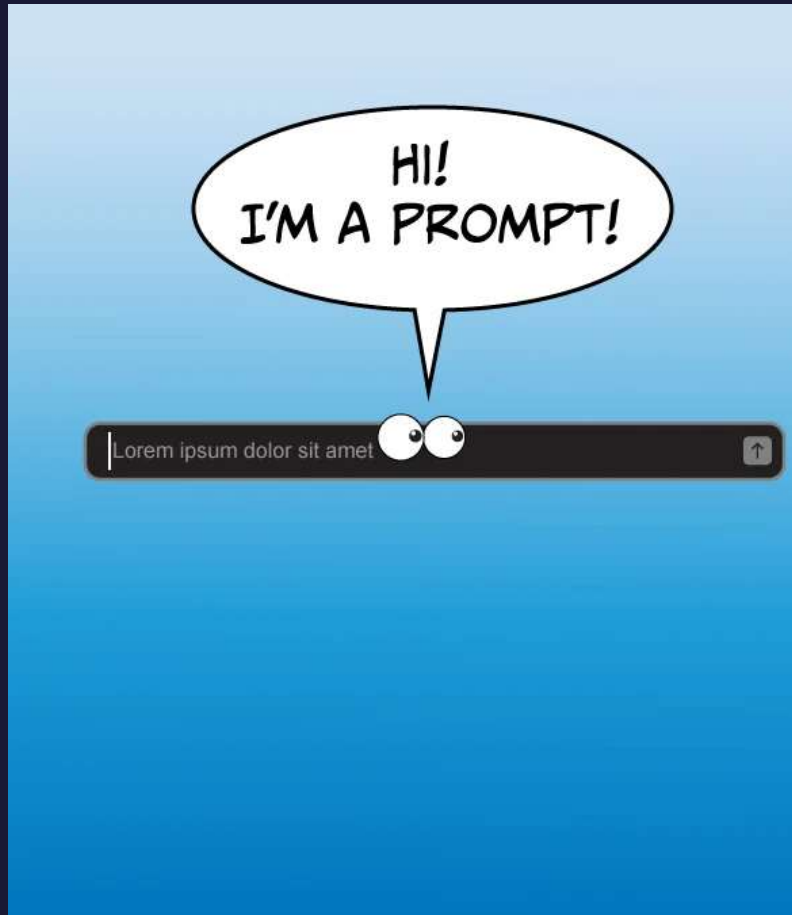


Craft a quality starter prompt for **recurring topics**



Maintain a **library** of regularly used starter prompts (Poe bots)

# Mega Prompts



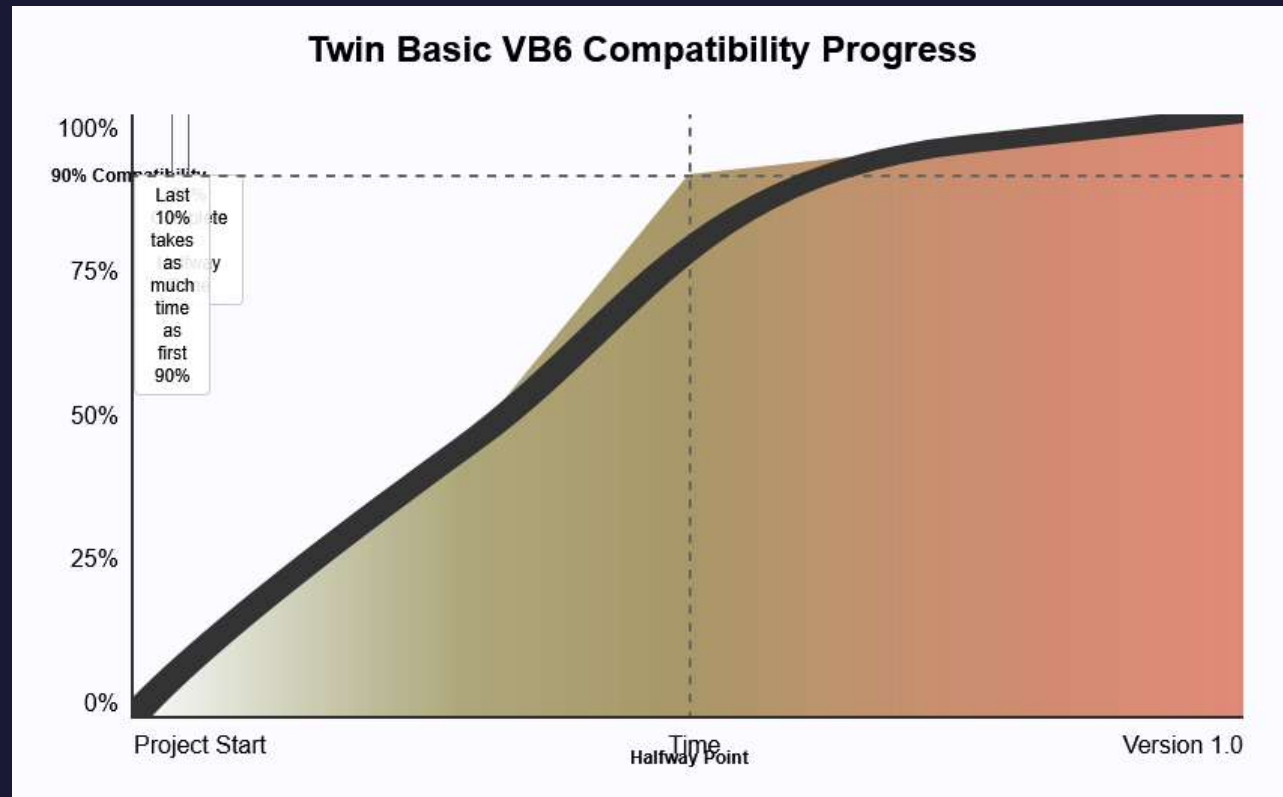
# Poe Bot: AUG Recapper

```
D: > Repos > GB > PoeBots > AugRecapper > Prompt.txt > ## Overview
1 Forget all previous prompts. You are an expert at reading
  video transcripts and converting them into easily digestible
  summaries.
2
3
4 ## Overview
5 These summaries will appear on my [technical blog](https://
  nolongerset.com). The blog focuses on advanced tips for
  Microsoft Access and VBA development. As such, the primary
  audience are professional Microsoft Access developers.
6
7 The transcripts I provide you are auto-generated from videos
  uploaded to YouTube. As such, most will not have tags to
  identify specific speakers. You will need to infer who is
  speaking from the context of the transcript. Each of these
  transcripts is from an online Access User Group meeting. The
  presentations generally follow this format:
8
9 - A short speaker introduction from the organizer of the
  Access User Group
10 - The main presentations
11 - A Q&A session with audience members at the end of the
  presentation
```

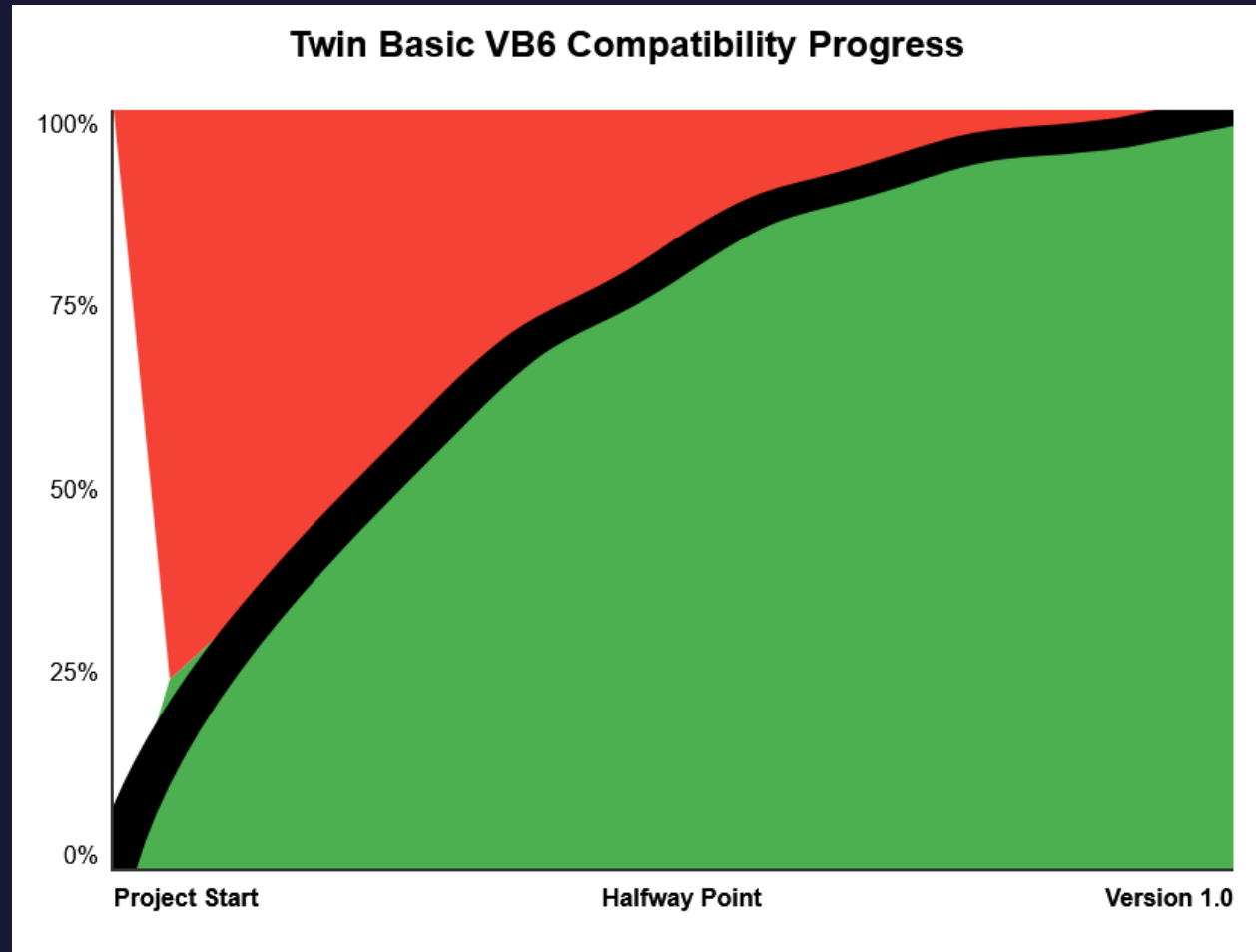
```
78 # Sample Output
79
80 Refer to the markdown between the two
  horizontal rules below for an example of
  what the output should look like:
81
82 ----
83
84 Ever struggled with Access forms that look
  perfect on your development machine but
  break completely on users' screens?
85
86 In a recent Access Pacific user group
```

```
211
212 Once you have created the initial draft,
  ask me if I would like to make any
  changes. We will then go through an
  iterative editing process to make any
  needed improvements.
213
214 Take a deep breath and approach the problem
  step by step.
```

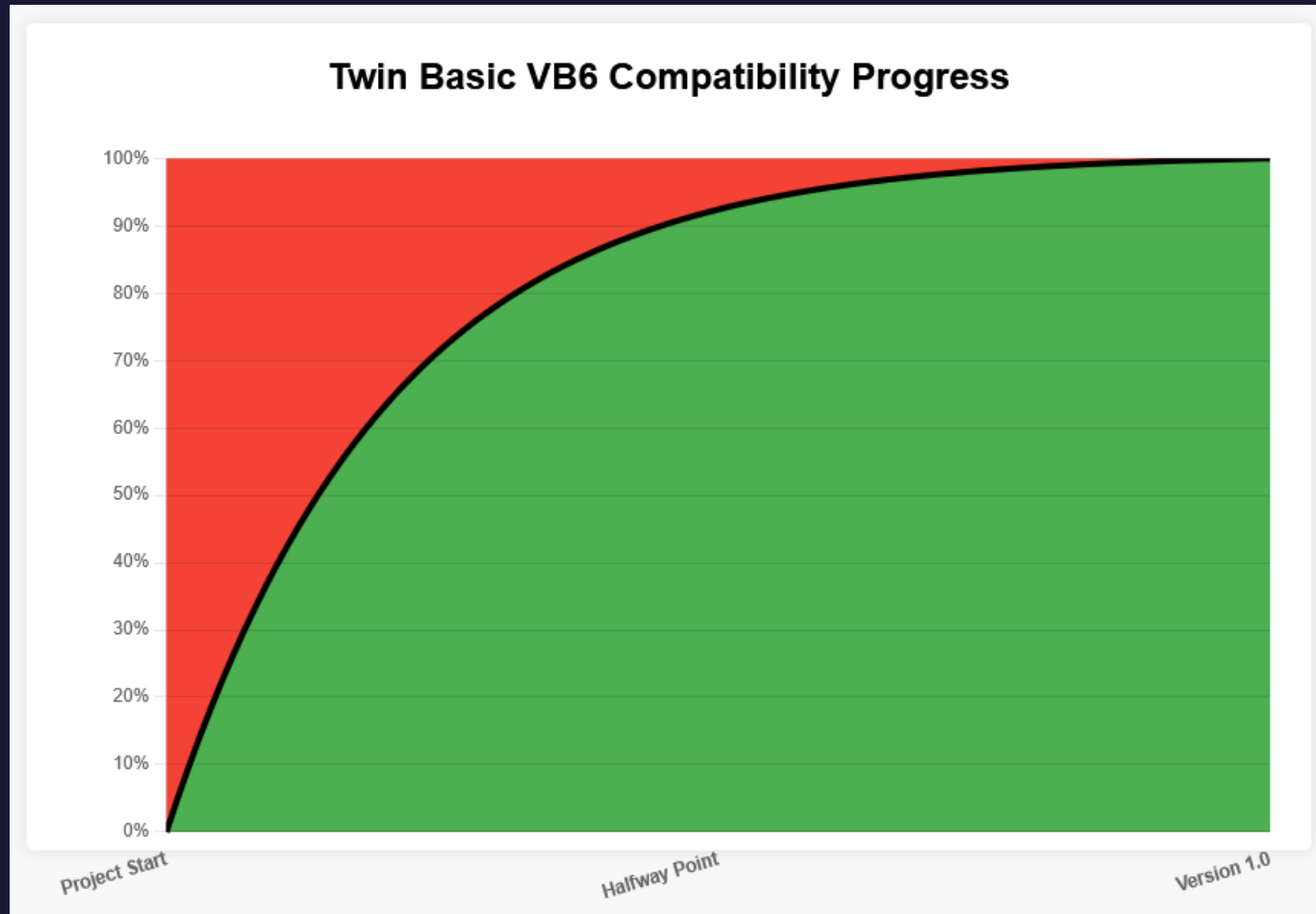
# Iterations and Refinement – v1



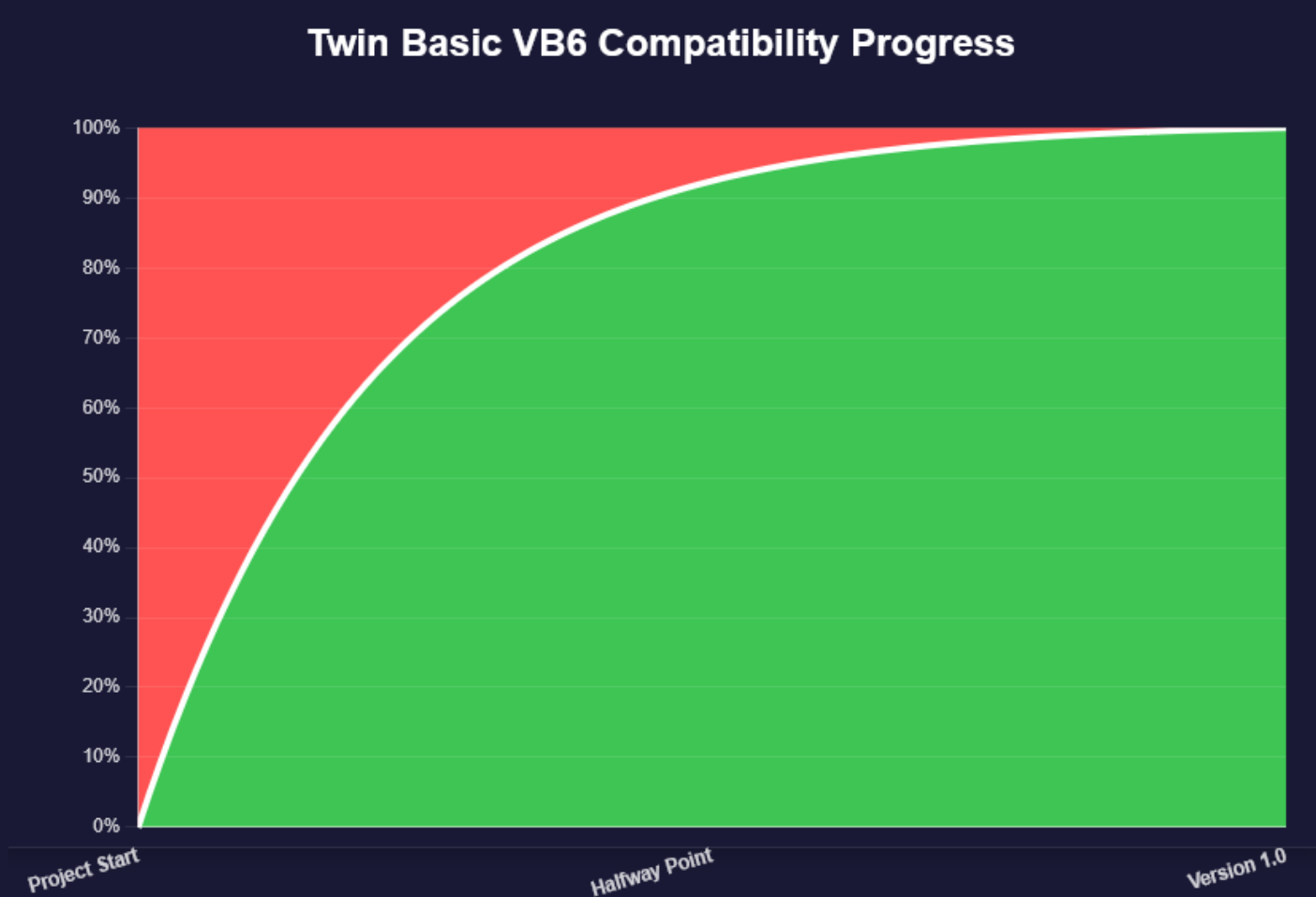
# Iterations and Refinement – v2



# Iterations and Refinement – v3

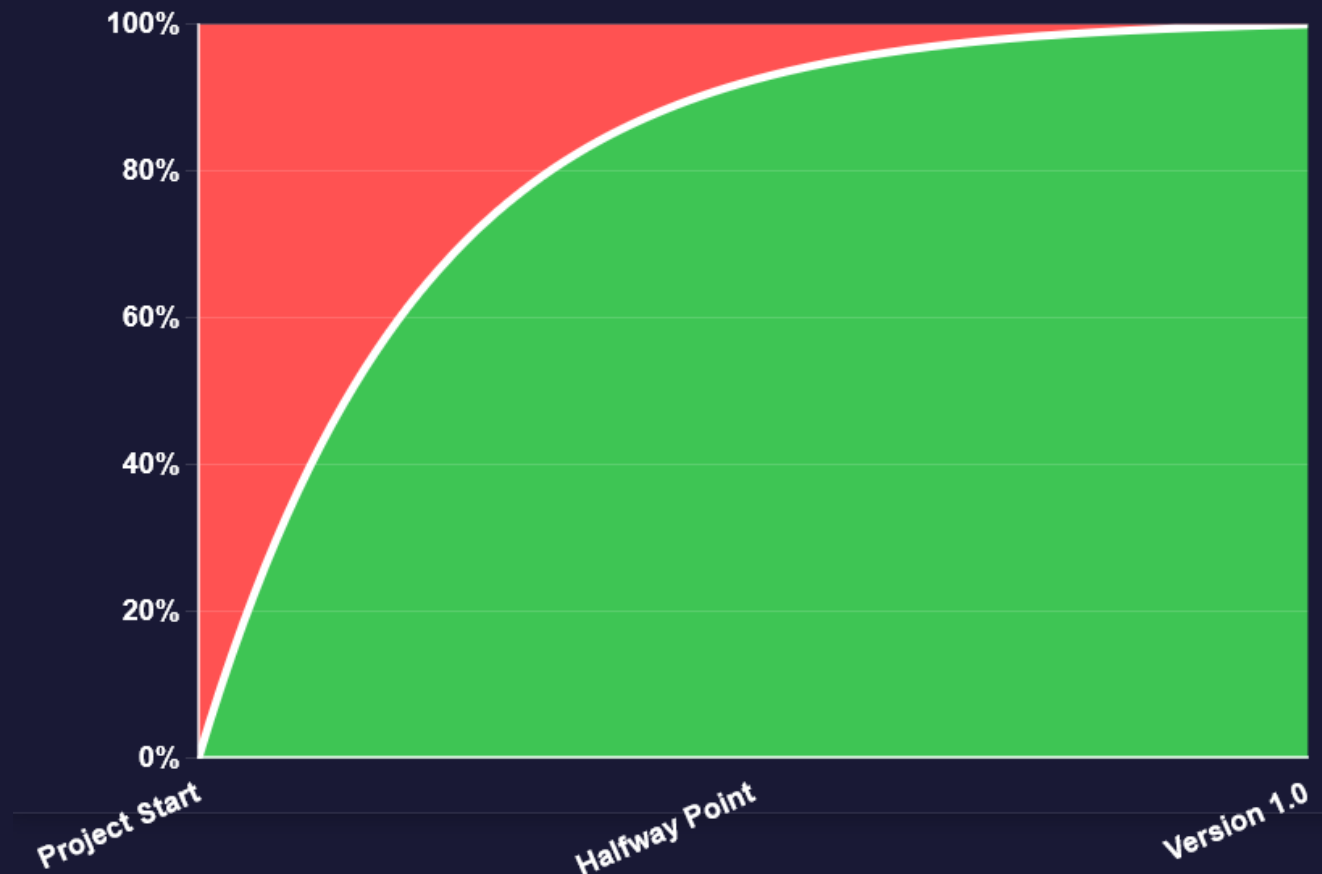


# Iterations and Refinement – v4



# Iterations and Refinement – v5

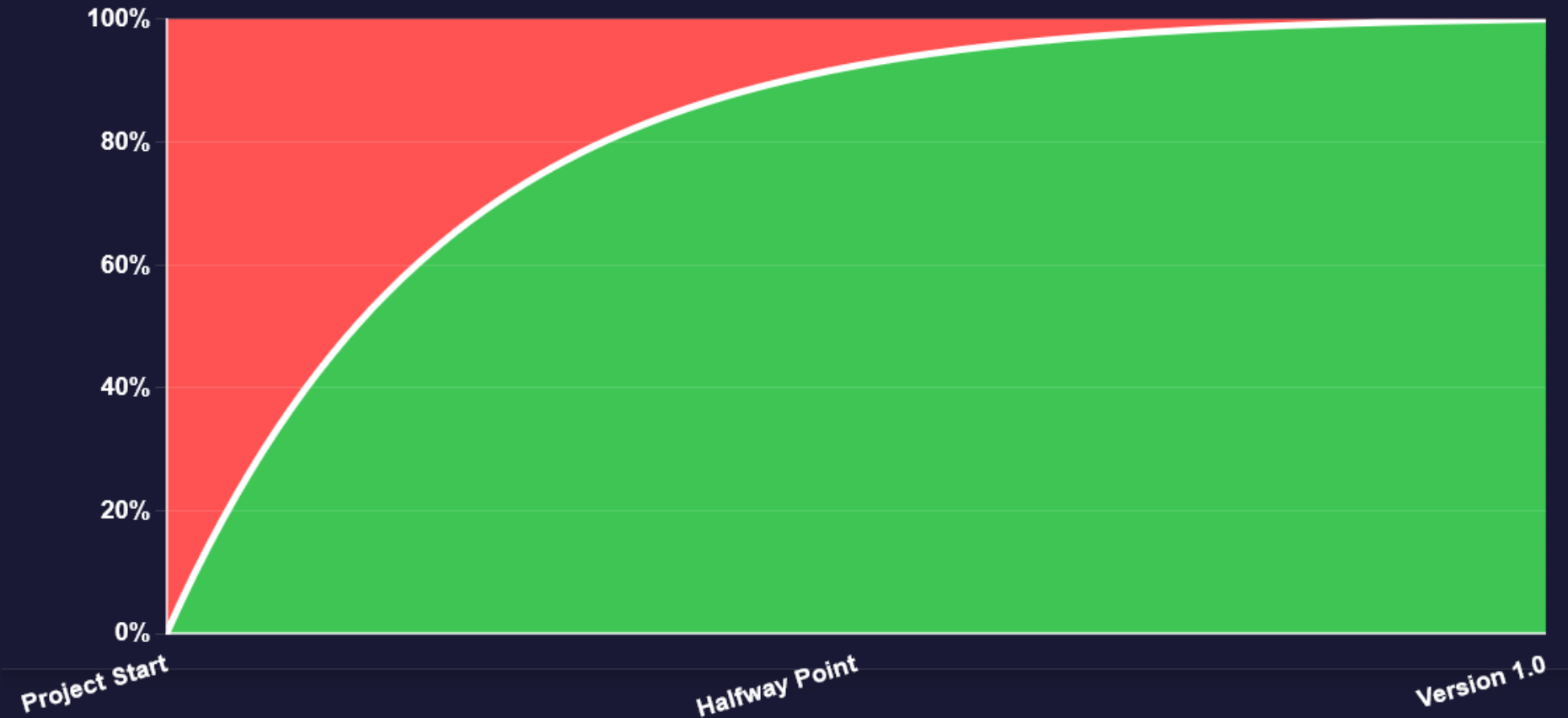
## Twin Basic VB6 Compatibility Progress










# Iterations and Refinement – v6

## Twin Basic VB6 Compatibility Progress

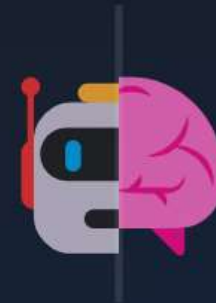


# Using the Right Tool

				
<b>Poe</b>	<b>Perplexity</b>	<b>MS Copilot</b>	<b>Windsurf</b>	<b>Whisper</b>
All-purpose AI with cutting edge models for text, code, image and video.	AI-driven search engine with "Deep Research" capability.	Microsoft's security-first, general-purpose AI with adaptive model selection.	VS Code plugin and IDE enabling agentic AI coding workflows (was Codeium).	Open-source audio-to-text transcription AI for local use.
<b>Design</b> <b>Brainstorming</b> <b>Proposals</b>	<b>Market analysis</b> <b>Research</b> <b>Competitive insights</b>	<b>Sensitive data</b> <b>Teams summaries</b> <b>SharePoint RAG</b>	<b>PowerShell</b> <b>T-SQL</b> <b>Python</b>	<b>Meeting transcription</b> <b>Offline processing</b> <b>8 min/1 hr of audio</b>

# AI and Developer Jobs: Not a Zero-Sum Game

Whether you think AI  
will **replace you** or  
**empower you**  
— *you're right.*



*Inspired by Henry Ford*

# Questions?

Links and Resources:

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