

Choosing the best AI code generator tools for professional development: Insights from HTEC's analysis of the top 26 tools in 2024

Empowering your digital tomorrow

What are AI code generator tools?

AI code generators are applications that automate code creation, debugging, and enhancement. These tools help developers streamline software development processes and testing, improve productivity, and democratize coding.

How we analyzed the tools

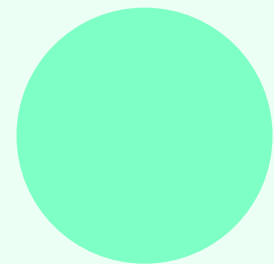
HTEC’s evaluation team analyzed the market’s top 26 AI code generators using 11 individually weighted assessment attributes (such as context awareness, output, latency, IDE support, and trustworthiness) to help companies identify the best tool for professional development environments. The team assigned each tool a normalized total score and placed them into one of three categories: **Adopt**, **Trial**, and **Assess**.

Download the eBook “**Leading AI Code Generators in 2024: A Detailed Research and Analysis Report,**” for an in-depth look at the top five tools and recommendations to choose the right tool for your organization.

 [Download the eBook](#)

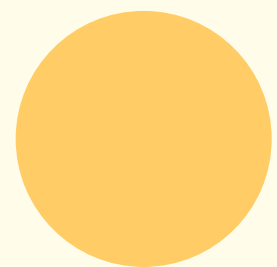
Note: The consumer of this infographic acknowledges and accepts that HTEC shall not bear any responsibility with respect to the selection and subsequent use of AI code generator tools. Furthermore, HTEC assumes no responsibility or liability for any errors or omissions in the content of this infographic, or in the content of any externally referenced sources. This infographic and its contents are provided for information purposes only and should not be construed as legal advice on any matter. The information contained in this report is provided to readers on an 'as is' basis, without warranties of any kind, including no guarantees of completeness, accuracy, usefulness, or timeliness. This infographic is intended only for the use of the recipient to which it is addressed. Any further dissemination, distribution, or copying of this infographic is strictly prohibited.

AI code generators rating scale



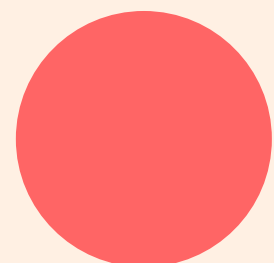
Adopt

- Normalized total scores ranged from 7-10.
- Could be useful in a professional environment.
- These tools performed well in quality of output, IDE and programming language support, and trustworthiness (market longevity, positive user reviews, and transparency).



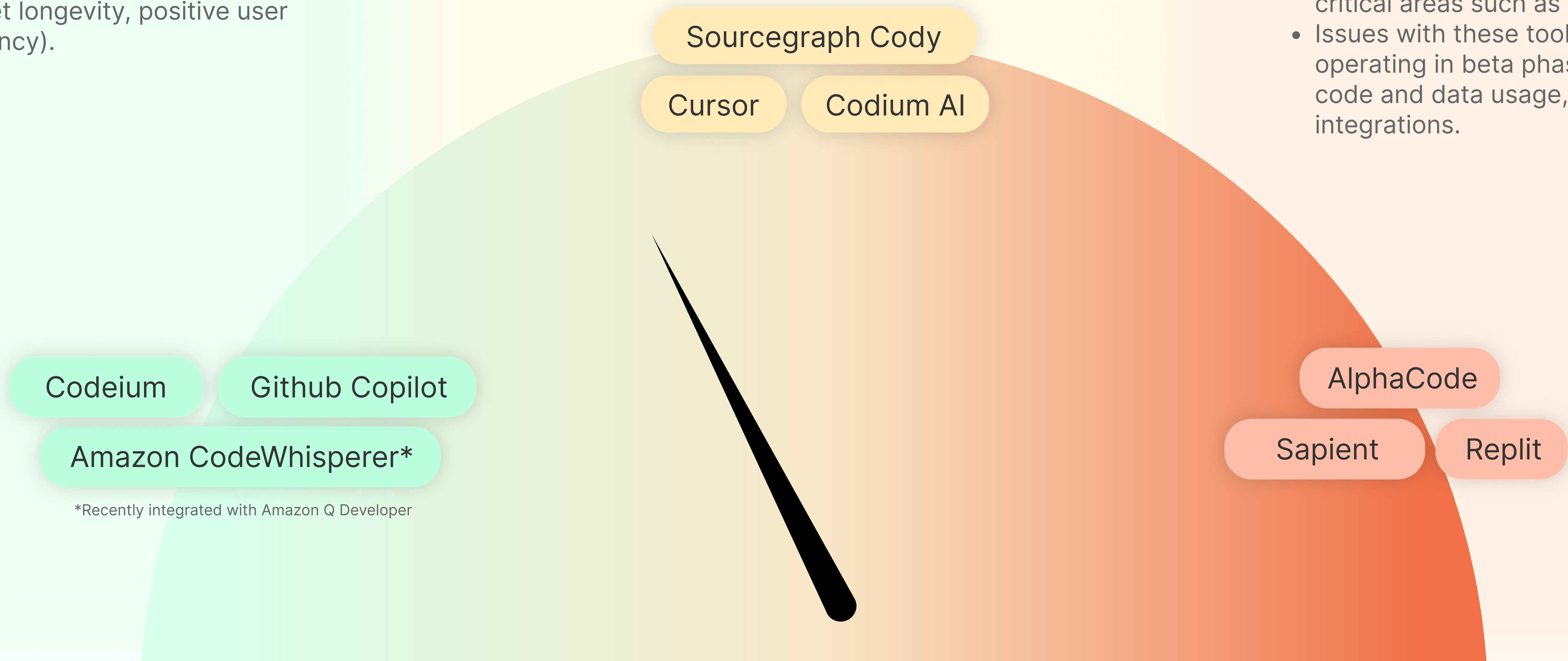
Trial

- Normalized total scores ranged from 4-6.
- Not currently recommended for professional use but should be watched for improvements in functionality and usability.
- These tools were often in the preview stages or lacked the advanced functionalities of the AI code generators in the **Adopt** category.



Assess

- Normalized total scores ranged from 0-3.
- Could not be recommended for professional use based on the inspected attributes. Organizations should proceed with caution due to low ratings in critical areas such as trustworthiness and quality.
- Issues with these tools included applications operating in beta phases, low transparency on user code and data usage, and limitations on IDE integrations.



*Recently integrated with Amazon Q Developer