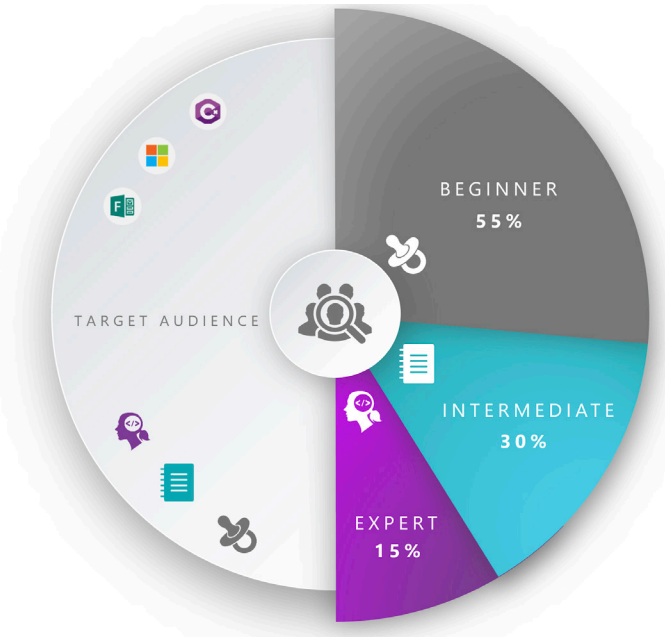


TARGET AUDIENCE

Our target audience was determined by conducting a survey that involved 500 Microsoft professionals and members of the general public.



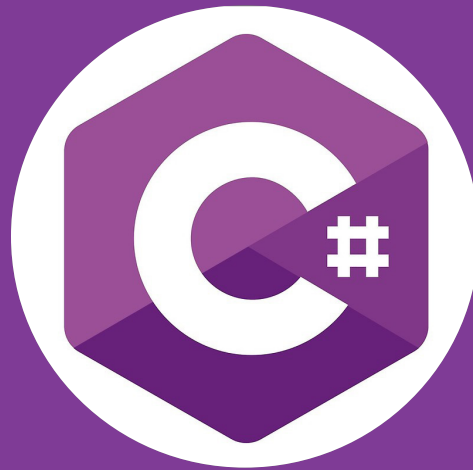
Whether the user is a developer or a beginner, coupled with our introductory C# course notebooks, the need of every user is met.

The C# Notebooks are designed such that users of any experience can develop in C# and learn the programming language simultaneously.

Our product is targeted at:

- Students
- Teachers
- Demonstrators
- Developers

Re-inventing digital learning



COMMERCIAL ASPECT

Why C#?

C# is a TOP 5 language and expanding

We ensure that C# is not left out of the running with new users who are learning how to program using Azure Notebooks.



Unique Selling Point

1st notebook of it's kind for C# enthusiasts

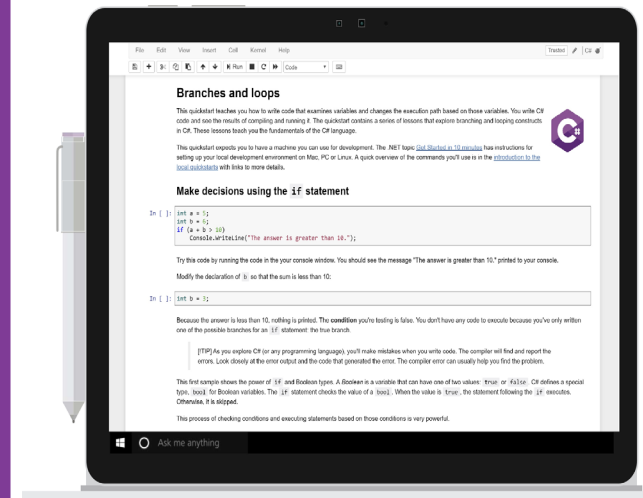
We bring the power of the C# language to the community of Azure notebook users!

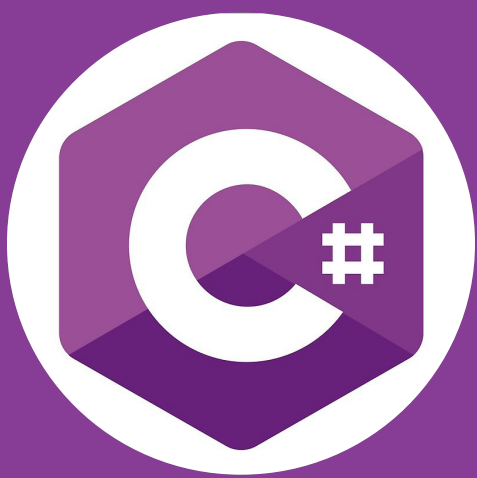


Investments contact: csharpnotebook@microsoft.com



Microsoft





CONCEPT

“C# is **ONE OF THE TOP FIVE** programming languages currently in the market.”

Our C# Kernel caters to users who want to develop in C# using Azure notebooks. Along with the C# Kernel we designed and created complementary Azure notebooks to attract and drive users to discover C#.

TECHNICAL ASPECT



C# KERNEL

We designed and implemented an Open Source C# Jupyter Kernel using the Roslyn compiler platform. Our C# Kernel implementation enhances the existing platform with features that create a rich user interface such as:

IntelliSense
Syntax Highlighting
Error Display



INTERACTIVE PROTOCOL

Once the features aimed at enhancing the user experience are implemented in the C# Kernel, we integrate the C# Kernel with the Azure Notebook service to provide a seamless on-ramp for anyone who wants to learn C# using the service.



C# NOTEBOOKS

We create a compelling set of C# Azure notebooks that could form the basis of an introduction to C# online class that is designed to ignite creative learning practises in C#.

The set of C# Azure notebooks range from beginner to advanced level that show how to use Azure services in solving a real-world problems.

SOLUTION



IntelliSense

This is a context-aware code completion feature that speeds up the process of coding applications by reducing typos and other common mistakes. We implement this with auto completion popups when typing, querying parameters of functions, query hints related to syntax errors and more.



Syntax Highlighting

This feature facilitates writing in C# as keywords, syntax errors and other structures are visually distinct to the user. Syntax highlighting improves the readability and context of the text making it user friendly whilst coding.



Error Display

This feature displays errors made by the user on the notebook whilst adding creative red squiggly highlighting under variables that are wrong. This features helps the user identify and learn from syntax mistakes.