

Reactor

Designing Windows Widgets using Generative Al

Peter Bull, Microsoft MVP - .NET & Windows Development



About



Peter Bull

Microsoft MVP - .NET & Windows Development

Speaker Bio: Developer with over three decades of personal experience & over two decades of professional experience for web, mobile & desktop

Comentsys.com: Websites, Packages & Software

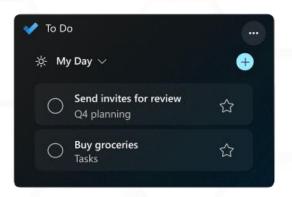
RoguePlanetoid.com: Posts, Articles & Podcast

Tutorialr.com: Tutorials, Talks & Workshops



Agenda

Windows Widgets Adaptive Cards Generative Al Demo Summary





Overview

Windows Widgets



Windows 11
Enables seamless productivity
and creativity designed for
modern users



Widgets

Quick access to information all from the click or swipe of the Widgets Board



Windows 11

Windows Widgets

Windows 11 is Microsoft's latest and most powerful operating system that helps developers, consumers & businesses get things done

Features

- Optimised for productivity & information
- Elevated for games & entertainment
- Enhanced with AI using Copilot
- windows.com

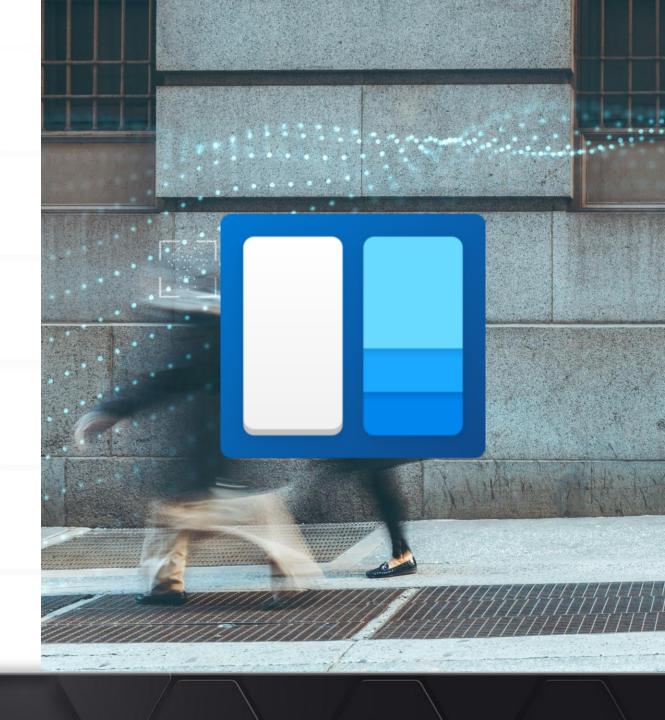
Widgets

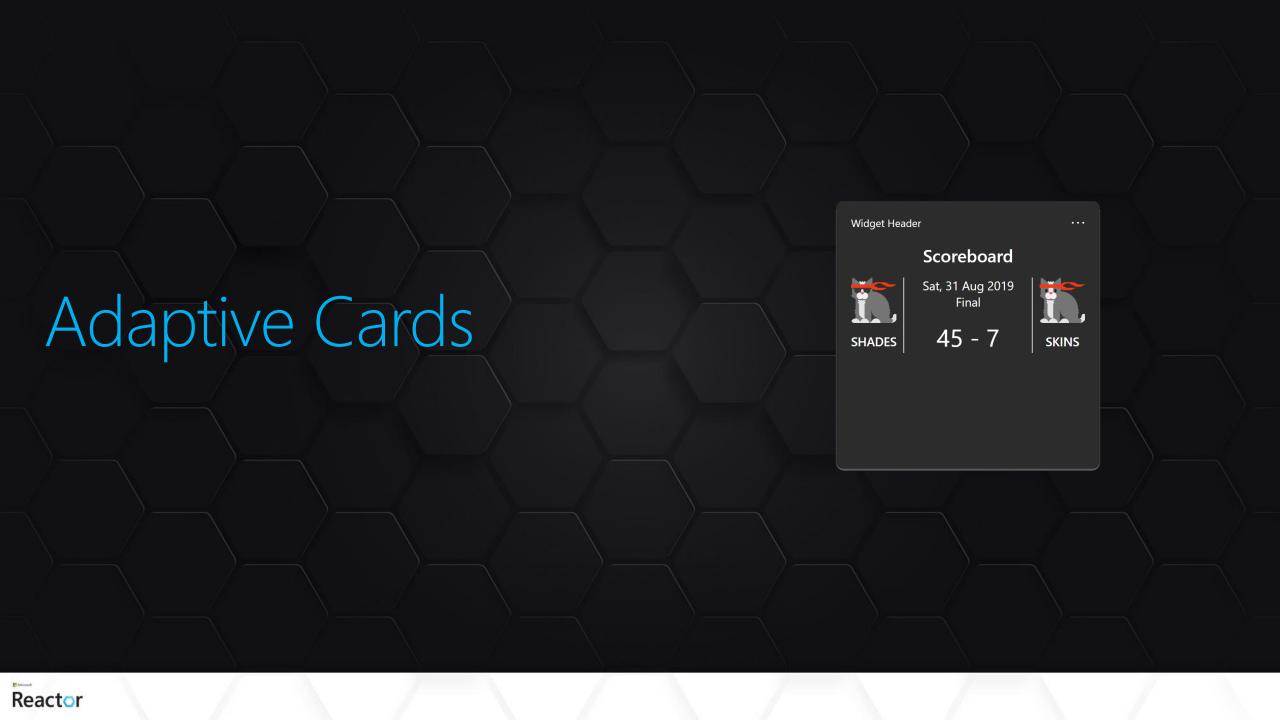
Windows Widgets

Windows 11 with Widgets Board enables quick-and-easy access to ata-glance information including built-in & Microsoft Store Widgets

Features:

- Organise & save time with the Widgets Board
- Customise & personalise what's important
- Interactive & dynamic text or images
- Designed using Adaptive Cards







Overview

Adaptive Cards

Adaptive Cards are platform-agnostic UI snippets in JSON for rich interactive content across platforms or services such as Widgets

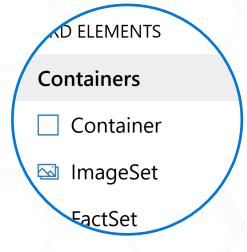
Features

- Exchange at-a-glance content supporting text and images
- Create using JSON schema or drag-and-drop designer
- Update based on user actions or data changes
- adaptivecards.io

Adaptive Card Schema (1.5)

Card Elements	Containers	Actions	Inputs	Types
TextBlock	ActionSet	OpenUrl	Text	BackgroundImage
Image	Container	Submit	Number	Refresh
Media	ColumnSet	ShowCard	Date	Authentication
MediaSource	Column	ToggleVisiblity	Time	TokenExchangeResource
CaptionSource	FactSet	TargetElement	Toggle	AuthCardButton
RichTextBlock	Fact	Execute	ChoiceSet	MetaData
TextRun	Table		Choice	
	TableCell		Data.Query	

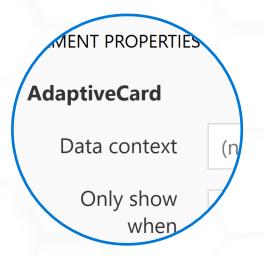
Adaptive Card Designer



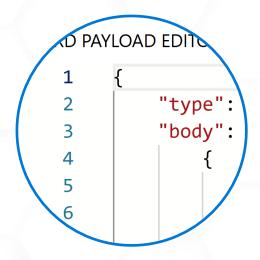
Card Elements Card Structure for Adaptive Card including Containers, Elements and Inputs



Select Host App Widgets Board, Light or Dark theme and Small, Medium or Large container size

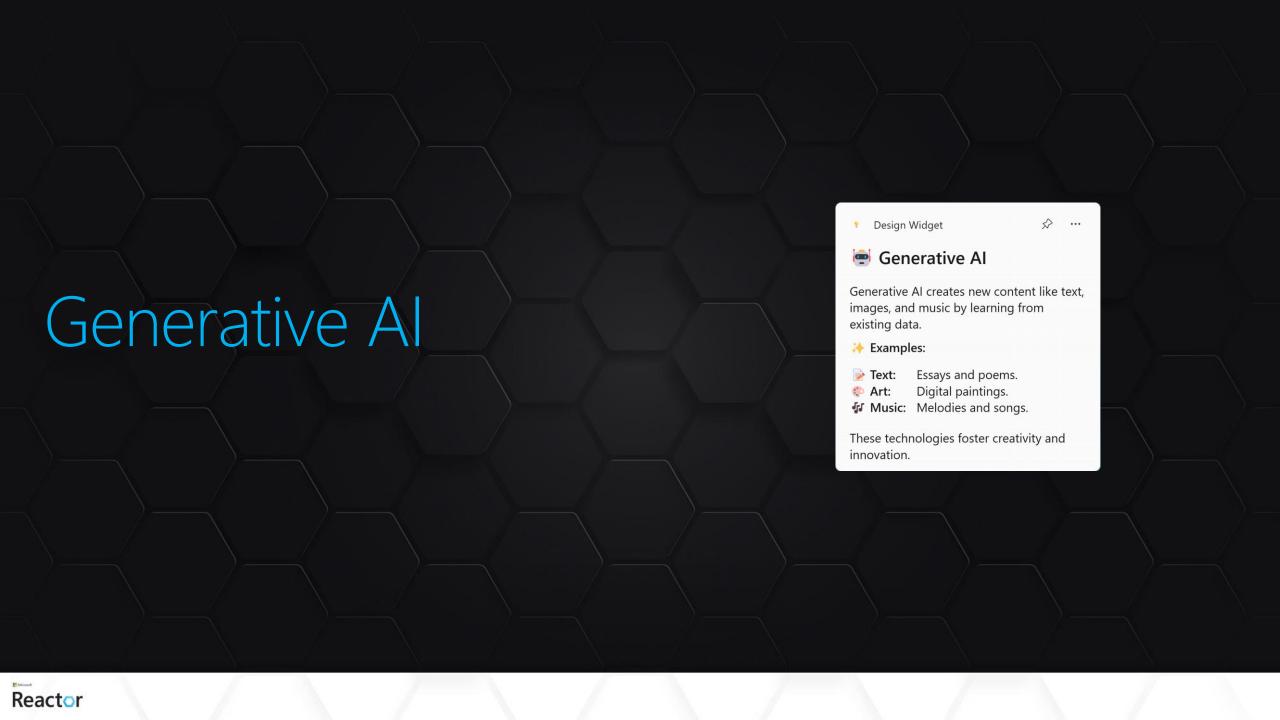


Element Properties Update properties including data context, layout, styling, content and visibility



Editors

Card Payload Editor to edit or copy JSON and Sample Data Editor for data binding



Overview

Generative Al

Saves time and effort by leveraging AI models to assist with new ideas, automate content creation or formatting information

Features:

- Models trained on large datasets of content
- Learn patterns and structures of content
- · Generate new content
- Refine output

ChatGPT

Generative Al

Al-powered language model that understands natural language to generate ideas, streamline tasks, solve issues or refine information



Answer in-depth questions



Generate creative content

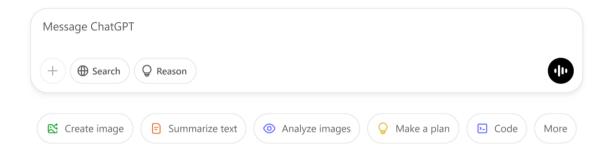


Helpful suggestions



Design templates







Copilot

Generative Al

An Al companion designed to understand natural language to offer solutions, generate ideas, streamline tasks and refine information



Generate creative ideas



Simplify complex tasks

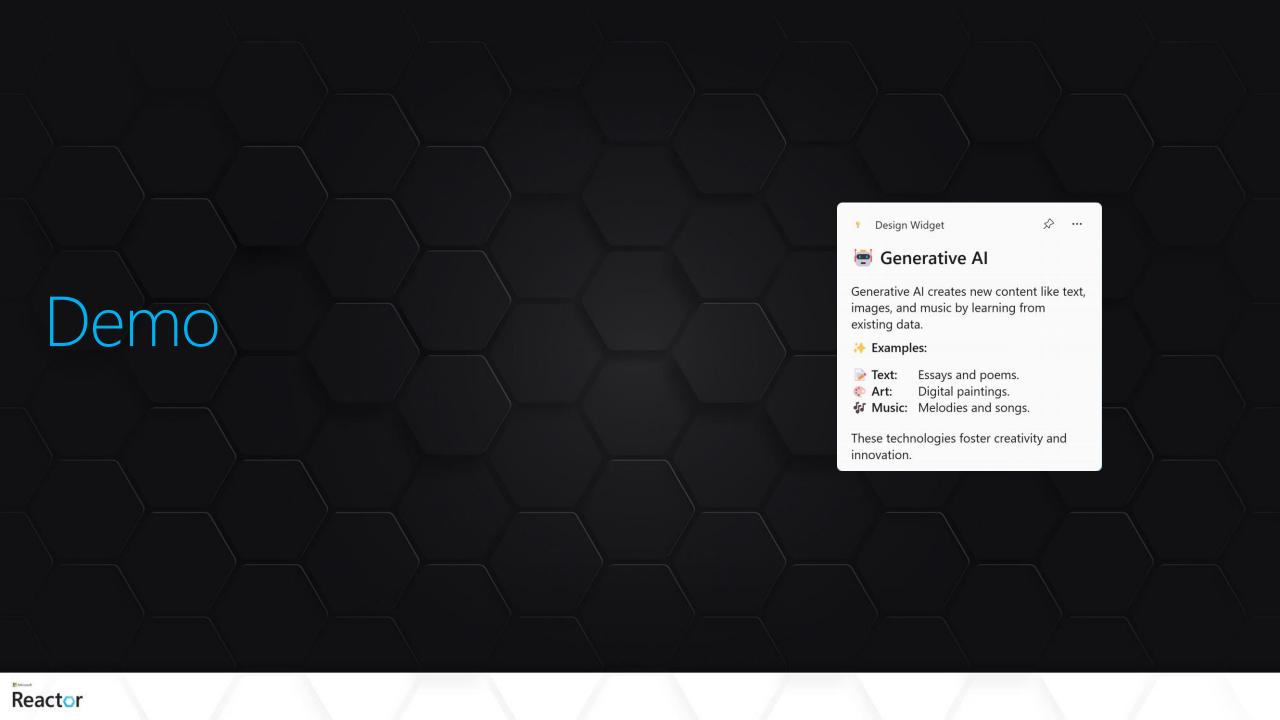


Solve tough problems



Create templates





Summary

Windows 11

Windows 11 helps developers, consumers and businesses be more productive with Copilot and informed with Widgets



Widgets

Widgets provide easy-to-use dynamic or interactive access to information at-a-glance using Adaptive Cards



Adaptive Cards

Adaptive Cards are templates for Widgets created using the JSON Schema or Designer and using Generative Al



Generative Al

Generative AI like ChatGPT or Copilot can be prompted to design Adaptive Cards for Windows Widgets easily

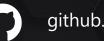




Reactor

Thank You!

Q&A



github.com/rogueplanetoid/designingwindowswidgets



linkedin.com/in/rogueplanetoid

