



HAVIT
SOFTWARE DEVELOPMENT

@RobertHaken

Software & Cloud Architect | Microsoft MVP: Development | HAVIT, s.r.o.

Novinky GitHub Copilot

MS Build Redelivery



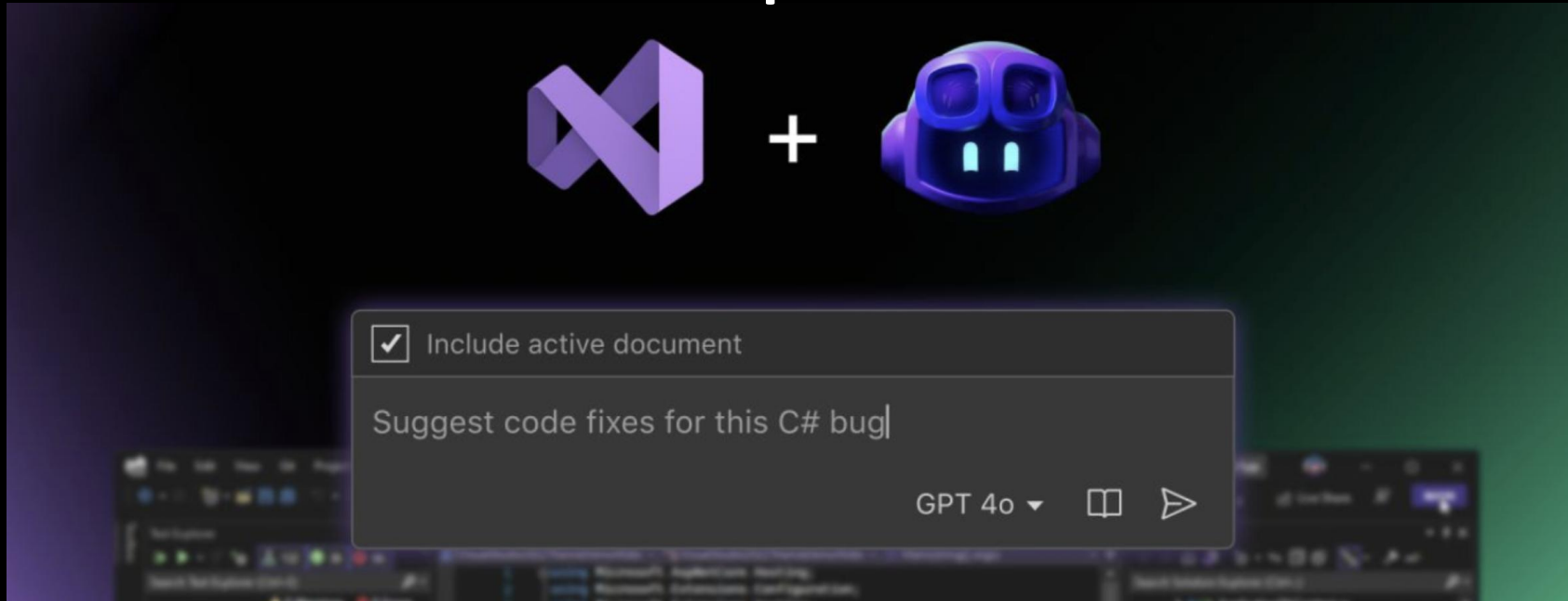


My AI journey?

Entering YOLO mode...



Visual Studio + GitHub Copilot



- Debugger agent, Test agent, Modernize agent
- Profiler agent, Profile test, PerfTips, ...
- Fix vulnerabilities with Copilot (NuGet packages)
- **Moving to Copilot CLI SDK**



Azure DevOps + GitHub Copilot

The screenshot displays the Azure DevOps interface with a work item (BUG 90429) titled "Transakční deník - Grpc.Core.RpcException: Status(StatusCode='Unknown', Detail='System.InvalidOperationException: Nullable object must have a value.'). The work item is in a "Closed" state with a reason of "Fixed".

A dialog box titled "Create a draft pull request with Copilot" is open, showing the GitHub repository "havit-internal/003.GOR-G3" and the "master" branch. The dialog includes a "Special instructions (optional)" field and "Cancel" and "Create" buttons.

In the bottom left, a Copilot chat window is visible, showing a security warning: "MODERATE · security" and a message stating "dangerouslySetInnerHTML is used here to render item.description. This is a security risk (XSS) if the description contains untrusted content. Unless the description is guaranteed to be safe HTML, render it as plain text or sanitize it first." Below the warning, a "Suggested change" is shown, highlighting the use of `dangerouslySetInnerHTML` in the code.

The right side of the interface shows the "Related Work" section with a "Development" tab, listing several GitHub Pull Requests and Commits related to the work item, including "AB#90429 Make Transaction.CurrencyId ..." and "Fix #90429 - Transakční deník: Nullab...".



Visual Studio Code – Agents

The screenshot displays the Visual Studio Code interface with an AI agent window titled "Review and fix accessibility issues on the website".

Left Panel (Sessions): A list of sessions is shown, with "Review and fix accessibility issues on the website" selected. Other sessions include "Implement the contact page", "Add telemetry to the website to track pa...", "Review and update playwright tests for al...", and "Perform a performance review".

Bottom Left Panel (Customizations): A list of customizations is shown, including "Agents", "Skills", "Instructions", "Hooks", "MCP Servers", and "Plugins".

AI Agent Window: The window title is "Review and fix accessibility issues on the website". The content includes:

- Reviewed 15 files
- Now I have a full picture of the codebase. Let me identify all the accessibility issues:
- Insert accessibility todos
- Here's a summary of the issues I found:
 - No skip navigation link — keyboard/screen reader users can't bypass the nav
 - Menu toggle button missing `aria-label` and `aria-expanded`
 - Decorative icons throughout missing `aria-hidden="true"`
 - `<main>` duplicated in the destinations page (layout already has `<main>`)
 - ThemeToggle `aria-label` is static instead of describing the action
 - Error alerts in flight tracker don't have `role="alert"` for screen readers
 - Footer nav not wrapped in a `<nav>` element
 - Focus style removed on search input with `outline: none`
- Let me fix all of these now:
- Modified 8 files
- Claude Sonnet 4.6
- Run tasks in the background with the Copilot CLI, type `#` for adding context
- Agent: Claude Sonnet 4.6 Medium
- Copilot CLI and Default Approvals controls at the bottom.

Right Panel (Files): A file explorer view showing the project structure, including folders like `.github`, `.vscode`, `src`, `static`, and files like `.editorconfig`, `.gitignore`, `.prettierrc`, `jsconfig.json`, `package.json`, `package-lock.json`, `README.md`, `svelte.config.js`, and `vite.config.js`.

GitHub Copilot app



The screenshot displays the GitHub Copilot application interface. On the left is a sidebar with navigation options: Home, My work, Automations, Search, Sessions, and Quick chats. The main area shows a pull request for the repository 'rodbotas6/octocat-empty-state'. The commit message is 'Replace static GitHub logo with waving octocat in session empty state #4705'. The interface includes a terminal with the following commands and output:

```
Typecheck passes. Let me also run the lint check:
Run lint check bun run check 2>&1 | tail -10 · 6 lines
All checks pass. Let me commit:
Commit changes git add -A && git commit -m "Repl: · 20 lines"
Push branch to origin git push -u origin cameronfoxly/oct · 17 lines
```

Below the terminal, there are two buttons: 'Open pull request' and 'Pull request created +23 -9'. The bottom of the interface features a chat input field with the prompt 'Ask anything. Type / for commands, @ to add files, or # to reference' and a dropdown menu for model settings (Autopilot, GPT-5.5, Extra High).

On the right side, there is a detailed description of the pull request changes:

Replace static GitHub logo with waving octocat in session empty state #4705

rodbotas6 opened this pull request 12m ago.

The new session empty state currently shows a static, faded GitHub mark icon. This swaps it for the interactive 3D octocat wave scene already used in onboarding, giving the empty state a bit more personality and a fun click-to-wave interaction.

Approach


- Replaced the `MarkGithubIcon` in both the folder-workspace and default empty state branches of `WorkspaceTabContent` with `OnboardingWaveCanvas`.
- The canvas renders with `animate` enabled so the wave plays on mount and replays on click.
- Added a `usePrefersReducedMotion` guard matching the pattern already established in the onboarding flow -- when reduced motion is preferred, the canvas renders as a static silhouette instead of animating.
- Removed the now-unused `MarkGithubIcon` import.

Check Status

All checks have passed
44 completed




Fix with Copilot - Merge conflicts



Checks awaiting conflict resolution
1 neutral, 2 skipped, 89 successful checks



⚠️ This branch has conflicts that must be resolved
Use the [web editor](#) or the command line to resolve conflicts before continuing.

 `src/core/protocol/types.ts`

Merge when ready This repository uses the [merge queue](#) for all merges into the main branch.

Still in progress? [Convert to draft](#)

Resolve conflicts

-  Edit on the web
-  Fix with Copilot



Fix with Copilot - failing Actions

CI / Build and test
failed 1 hour ago in 4m 0s

Search logs

Fix with Copilot

Explain error

- > ✓ Set up job 4s
- > ✓ Set start time 0s
- > ✓ Cache Internal Actions Repo 0s
- > ✓ Export Internal Actions Path 0s
- > ✓ Setup Ruby 0s
- > ✓ Setup Vars 0s
- > ✓ Init Runner For Workflow 11s
- > ✓ Assemble app secrets request 0s
- > ✓ Get OIDC token 1s



Copilot Chat PR integration

feat: add minecraft-plugin-development skillFeat/minecraft plugin development #1454

View status

Code

Preview

Open

[zixuanjiang332](#) wants to merge 3 commits into [github:staged](#) from [zixuanjiang332:feat/minecraft-plugin-development](#)

Conversation 2

Commits 3

Checks 10

Files changed 8

+1,054

All commits

0 / 8 viewed

Submit review



0

Filter files...

docs

README.skills.md

skills/minecraft-plugin-develop...

references

bootstrap-registration.md

config-data-and-async.md

maps-heroes-and-feature-mo...

minigame-instance-flow.md

project-patterns.md

state-sessions-and-phases.md

SKILL.md

docs/README.skills.md

+1



Viewed



```
@@ -209,6 +209,7 @@ See [CONTRIBUTING.md](../CONTRIBUTING.md#adding-skills) for guidelines on how
to
209 209 + | [microsoft-docs](../skills/microsoft-docs/SKILL.md) | Query official Microsoft documentation to
find concepts, tutorials, and code examples across Azure, .NET, Agent Framework, Aspire, VS Code,
GitHub, and more. Uses Microsoft Learn MCP as the default, with Context7 and Aspire MCP for content
that lives outside learn.microsoft.com. | None |
210 210 | [microsoft-skill-creator](../skills/microsoft-skill-creator/SKILL.md) | Create agent skills for
Microsoft technologies using Learn MCP tools. Use when users want to create a skill that teaches
agents about any Microsoft technology, library, framework, or service (Azure, .NET, M365, VS Code,
Bicep, etc.). Investigates topics deeply, then generates a hybrid skill storing essential knowledge
locally while enabling dynamic deeper investigation. | `references/skill-templates.md` |
211 211 | [migrating-oracle-to-postgres-stored-procedures](../skills/migrating-oracle-to-postgres-stored-
procedures/SKILL.md) | Migrates Oracle PL/SQL stored procedures to PostgreSQL PL/pgSQL. Translates
Oracle-specific syntax, preserves method signatures and type-anchored parameters, leverages orafce
where appropriate, and applies COLLATE "C" for Oracle-compatible text sorting. Use when converting
Oracle stored procedures or functions to PostgreSQL equivalents during a database migration. | None |
```



Agentic Workflows

Manually triggered 1 minute ago

Status	Total duration	Artifacts
mnkief <code>e1cd55c</code> <code>main</code>	In progress	=

daily-repo-status.lock.yml
on: workflow_dispatch

activations 8s — **agent** 55s — **detection** — **safe_outputs**



Agentic Workflows

- Simple Markdown files
- Compiled to GitHub Action
- GitHub CLI extension
 - `gh aw init`
 - `gh aw add-wizard githubnext/agentics/daily-repo-status`
 - `gh aw run`
 - `gh aw compile`
- AI authoring: skills, agent
- Security-first by design



New CLI UI with tabs

```
security-review-test x Command Prompt x GitHub Copilot x + v - □ ×  
Session Issues Pull requests Gists  
is: issue is: open involves: @me repo: havit/Havit.Blazor 1 / 11  
○ [ApplicationInsights] Change EnableAutoRouteTracking default to true  
#1427 · hakenr opened 1w ago  
○ [ApplicationInsights] BlazorApplicationInsights_AuthenticationUserContext_Test flaky  
#1418 · hakenr opened 1w ago  
○ Add E2E tests for HxScrollspy component  
#1363 · hakenr opened 2mo ago  
○ [HxCombobox] - "basically, HxAutosuggest which does NOT clear the input on blur"  
#1194 · wexman opened 5mo ago  
○ Automated Accessiblity Tests  
#1192 · efinder2 opened 5mo ago  
○ [HxInputFileCore] Support for `cancel` event (.NET 11)  
#1189 · hakenr opened 5mo ago  
○ [HxGrid] Ability to call LoadMoreAsync  
#1160 · gdube-nrc opened 8mo ago  
○ [HxSelect] - Avoid throwing an exception when a value is not in the list  
#1106 · mmonteagudo opened 11mo ago  
/ search · enter details · o open · c chat · a all · tab next tab
```



Remote control(s)

```
urlist 23 [message icon] [workspace icon] [tab icon] [tab icon] [user icon] [settings icon]
stash all your changes and get back to a clean main [close] + [dropdown] [tab icon] [more icon]

● Todo dependency 11 links added
  extend-group-types → read-next-docs
  update-group-data-access → extend-group-types
  update-group-apis → update-group-data-access
  update-group-drafts → extend-group-types
  build-grouped-dnd-ui → update-group-drafts
  update-public-group-rendering → update-group-data-access
  wire-compose-payloads → update-group-apis
  wire-compose-payloads → update-group-drafts
  add-group-tests → wire-compose-payloads
  add-group-tests → update-public-group-rendering
  validate-grouped-lists → add-group-tests

● Plan ready for review – Add named groups embedded on list records and... · summary: "- Add named groups em...
  ↳ Plan approved! Exited plan mode.

● Plan approved. I'll wait for your next prompt before implementing.

~/dev/burkeholland/urlist [~/feature/grouped-lists]
> █

5 background /sessions · / commands · ? help GPT-5.5 · low(24%)
[back] [refresh] feature/grouped-lists [close] 0 [warning] 0 [search] [workspace icon] [notification icon]
```



Rubber duck (agent)

```
WLC focus exception fix (fork) x Command Prompt x Conduct Chronicle Standup x + v - □ X
```

Session Issues Pull requests Gists

```
> rubber duck the fix
```

- I'll have the rubber duck agent review the fix critically.
- Rubber-duck(gpt-5.5) Review WLC focus fix
 - Read InputTime.cs
 - Web.Client\Components\Forms\InputTime.cs
 - L140:170 (20 lines read)
 - Read WorkLogPickerInputText.cs
 - Web.Client\Timesheets\WorkLogCenter\Components\WorkLogPickerInputText.cs
 - 49 lines read

The rubber duck identified a solid point: the catch block is too broad and should target the specific exception message instead. That's worth flagging to the user, though I won't modify the code since they only asked for the review.

- Rubber-duck review is in. Verdict: **no blocking issues** – the fix is functionally sound. One worthwhile refinement.

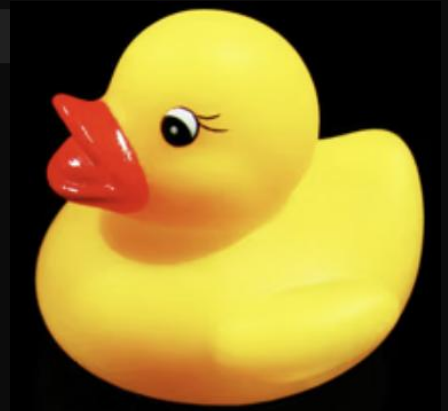
Key finding (non-blocking)

Broad `JSEException` catch is wider than needed – `SafeJSInteropHelper.cs:20-31` and `:39-50` swallow every `JSEException`,

E:\source\...\hakenr-reimagined-memory [`hakenr/fix-wlc-focus-invalid-element`] Session: 138 AIC used

```
3 background /sessions · / commands · ? help · tab next tab
```

claude-opus-4.8





Scheduling - /every and /after

GitHub Copilot

Session Issues Pull requests Gists

Copilot v1.0.55-1 uses AI.
`/experimental`

- Tip: `/model`
 - ↳ Select AI model to use

Scheduled prompts

Schedules registered via `/every` and `/after` for this session.

Schedule	Next	Message
› every 30m	28m 46s	check the PR merge queue
every 10m	9m 30s	run tests
every 1h	59m 49s	refresh the app

↑/↓



/fork, /ask, /btw, /share

```
WLC focus exception fix (fork) × Command Prompt × Conduct Chronicle Standup × + v - □ ×
```

Session Issues Pull requests Gists

all JS errors. If you want it tighter, I'd lean toward renaming intent (e.g. a focus-specific wrapper) rather than string-matching the message.

Want me to apply the message-filter narrowing, or leave it as is? (Note: the PR-push/commit tools are currently unavailable, so I could edit the files but not push this run.)

- Forked from "WLC focus exception fix (fork)" (62151e23-249b-4c44-a061-b761fe5b8ca2) as "WLC focus exception fix (fork) (fork)" (51e8c588-f377-44b8-b643-dcee6d910e36).
- MCP Servers reloaded: 6 servers connected

```
/ask K čemu jsou v projektu facades?
```

esc to dismiss



/chronicle [standup|search|tips|...]

```
security-review-test x Command Prompt x Conduct Chronicle Standup x + v - □ ×
Session Issues Pull requests Gists
● Standup for 2026-06-14:
  ✓ Done
  Invoice issuance feature switch - AB#91123 (hakenr/curly-guacamole branch)
    - Feature switch + EF migration implemented
    - No PR found
    - Session: 4d242883-85a3-4bca-9762-fe7db0206ab6
  Absence hours formatting fix - AB#91141 (hakenr/fantastic-spoon branch)
    - Rounding fix done, build/test passing
    - No PR found
    - Session: 5025160c-e0b4-4861-9da6-e025c46ca396
  Weekly nuget upgrades (hakenr/friendly-train branch)
    - Merged master, resolved conflicts, new PR opened
    - No PR found
    - Session: 99ac93ca-a296-43c7-a488-2e07c7678e4a
E:\source\Havit.Blazor [~ main] Session: 41.5 AIC used

/ commands · ? help · tab next tab Claude Opus 4.8 · 1M context
```



/sandbox

```
security-review-test x Command Prompt x Conduct Chronicle Standup x + v - □ ×  
Session Issues Pull requests Gists  
└─ Repository sets TreatWarningsAsErrors=true in Directory.Build.props (global buil...  
• Operation cancelled by user  
• Sandbox mode enabled  
Shell commands now run inside an OS-level sandbox with restricted access:  
- Filesystem - limited to your working directory, PATH directories, temp, and user profile  
- Network - outbound connections are allowed  
- Customization - run /sandbox to grant extra paths, tweak network access, or change other policy settings  
Check status or disable anytime with /sandbox disable.  
! Failed to connect to MCP server "nuget". Execute '/mcp show nuget' to inspect or check the logs.  
! Failed to connect to MCP server "chrome-devtools". Execute '/mcp show chrome-devtools' to inspect or check the logs.  
• MCP Servers reloaded: 4 servers connected  
• MCP Servers reloaded: 6 servers connected  
E:\source\Havit.Blazor [main] Session: 80.7 AIC used sandbox enabled  
|  
/ commands · ? help · tab next tab Claude Opus 4.8 · 1M context
```



/security-review

Running Security Review

```
└─ Review auth middleware (shell)
   └─ cd /Users/monalisa/projects/internal-security-gateway && cat src/security/requestSigning.ts
      30 lines...
```

Here are the findings:

#	Severity	File	Lines	Vulnerability	Confidence
1	● HIGH	<code>src/server/routes/notes.ts</code>	46-49	SQL Injection via raw string interpolation in UPDATE query	10/10
2	● HIGH	<code>src/client/pages/receipts.tsx</code>	56	Stored XSS via <code>dangerouslySetInnerHTML</code> with unsanitized note content	10/10
3	● HIGH	<code>src/server/routes/notes.ts</code>	10-16, 37-50, 68-79	Broken Access Control (IDOR) – no ownership checks on GET/PUT/DELETE notes endpoints	10/10

Asking user 3 HIGH-severity vulnerabilities were found. What would yo...

Copilot is requesting information

3 HIGH-severity vulnerabilities were found. What would you like to do next?

Follow-up action:

> Fix highest severity issues

Fix all issues

Commit a summary of findings

No, and tell Copilot what to do differently

Other (type your answer)



Security validation for third-party coding agents

Implementing todo-tracker functionality ✓ 8m 18s ...

Setting up environment

- Checkout code >
- Start 'github-mcp-server' MCP server >
- Start 'playwright' MCP server >

Validation Results

Code Review (✓ Success)

Code review completed. Reviewed 3 file(s).

Found 3 review comment(s):

- In react-spa/src/App.js, lines 224-225: `new Date().toISOString()` returns a UTC-based date string. for users in timezones ahead of UTC, this could report the previous day, causing a task due "today" (local) to not be flagged as overdue. Conversely, for users behind UTC, tasks due today could be incorrectly marked overdue. Use local date components instead, e.g., construct the comparison string from `getFullYear()`, `getMonth() + 1`, and `getDate()` with zero-padding.
- In react-spa/src/App.js, lines 183-185: The drag handle is a non-interactive `` with no `role`, `tabIndex`, or keyboard event handlers. Keyboard-only users cannot reorder items. Consider using a `<button>` (with appropriate styling), or adding `role="button"`, `tabIndex={0}`, and keyboard listeners (e.g. Arrow keys) to allow reordering without a mouse.
- In react-spa/src/App.js, line 3: A mutable module-level variable used inside a state updater (`nextID++` on line 32) is a side effect that can cause skipped IDs under React 18 Strict Mode (which double-invokes updaters in development). Consider using `useRef` for the ID counter inside the component, or generate IDs outside the updater (e.g., compute `const id + nextID++` before calling `setTodos`).

CodeQL Security Scan (✓ Success)

↓



Firewall settings for Copilot cloud agent

Enable firewall Recommended

Enabled ▾

Limit Copilot cloud agent's Internet access to only allow access to allowlisted locations.

Recommended allowlist

Allow access to locations frequently used to

[Learn more](#)

Allow repository custom rules

Allow repository administrators to add their organization allowlist.

Let repositories decide

Let repository admins decide whether to enable the firewall

✓ **Enabled**

Require the firewall to be enabled across all repositories

Disabled

Disable the firewall across all repositories

Organization custom allowlist

Allow access to specific domains, IP addresses, or URLs for all repositories in this organization. >



Problém je jasný — datepicker pracuje interně s UTC moment hodnotami a ukládá hodnoty jako UTC ISO string (např. "2026-05-29T00:00:00"). Když `stripTime` udělá `new Date("2026-05-29T00:00:00")`, JavaScript ho parsuje jako lokální čas (Praha = UTC+2). V létě to je `2026-05-28T22:00:00Z` — tedy stále 29.5. lokálně, takže to samo o sobě není problém.

Q & A

Můj návrh na další postup

1. Iterace 4 zůstává jak je — beze změny scope. Pošlu ti zítra ráno doplnění do [docs/us-495-iteration-4-summary.md](#),