

DYALOG

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Eastbourne 2026

EWC in 2026



Aarush Bhat

Dyalog Ltd.

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~~*Aarush Bhat*~~ ***Neil Kirsopp***

Dyalog Ltd.

Disclaimers

- Sorry, dass diese Präsentation auf Englisch ist
  - Ich arbeite immer nur auf Englisch. Ich übe Deutsch nicht so oft wie ich sollte
  - Sie dürfen doch später mit mir Deutsch oder Englisch oder Denglisch oder eine Mischung reden – alles geht
- I don’t plan to talk about AI/KI
  - but it might come up two or three times
  - I left that to Morten and Stefan yesterday in terms of dealing with that topic in more depth

Agenda

- Part One: Quick EWC update
- Part Two: Testing EWC applications

Who builds EWC



Morten Kromberg

CTO of Dyalog. Original developer of EWC.



Neil Kirsopp

Dyalog's resident JavaScript expert. Has been working on EWC since Oct’24.



Aarush Bhat

With Dyalog since Jan’23. Joined team EWC this year. Develops EWC and steers where to take it.

A small team, working in the open on dyalog/ewc.

EWC: Dyalog'24

Why EWC?



1. Protect existing investments

- Since 1990, □WC has made it possible for domain experts to be "full stack" developers
- □WC is perhaps the most important reason why Dyalog has been successful
- □WC is is restricted to the Microsoft Windows desktop, which is fading

1 Everywhere WC DYALOG

EWC: Dyalog'24



Part One: The Boring Release

A year of unbreaking EWC

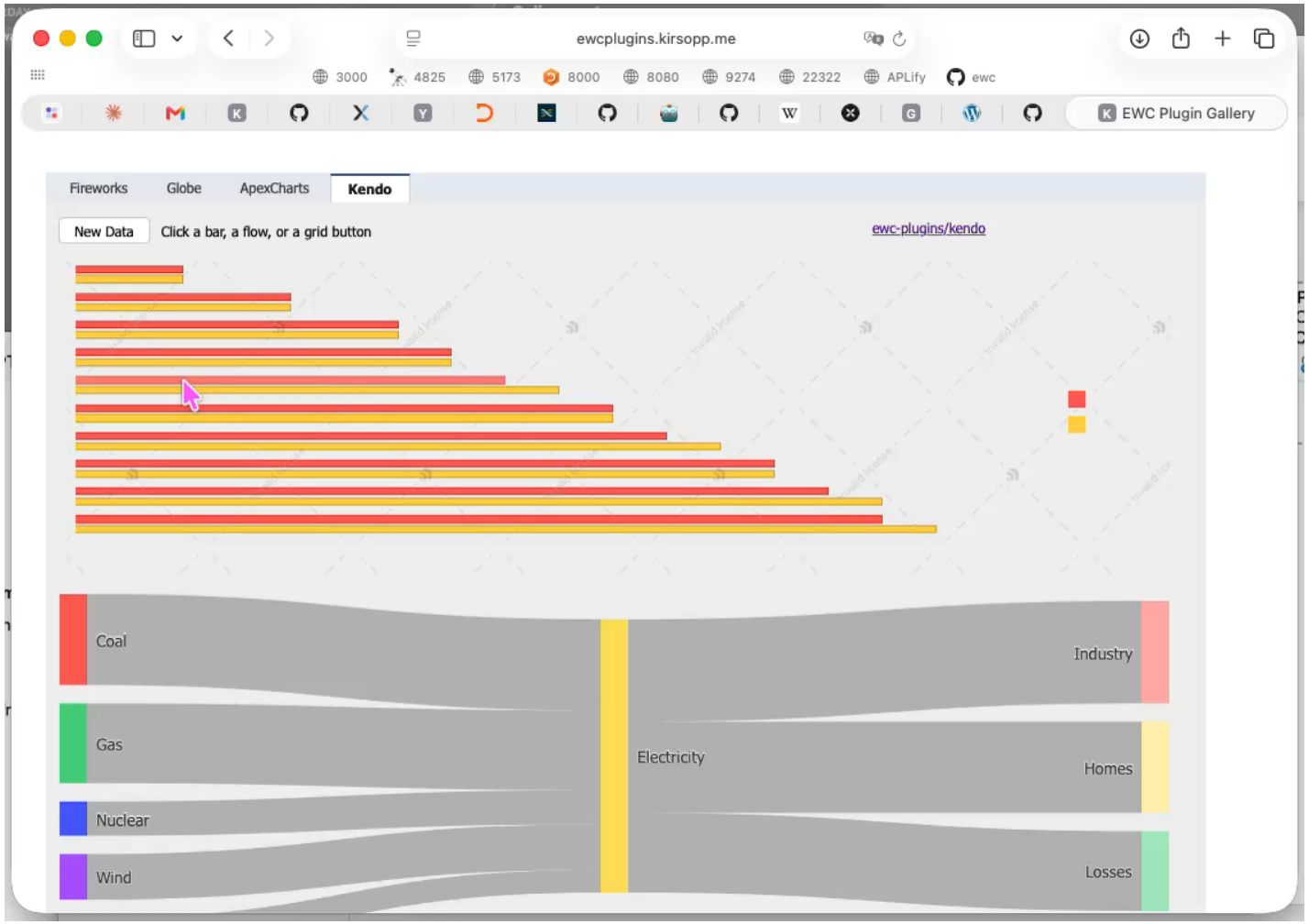
A lot of unglamorous fixes · Plugins · Releases · LLMs

The Boring Release

Plugins

- Extendable by customers
  - Any JS library is now available, trivially
- Allows libraries that aren’t ours/don’t match our license

Plugins Demo



We are experimenting!

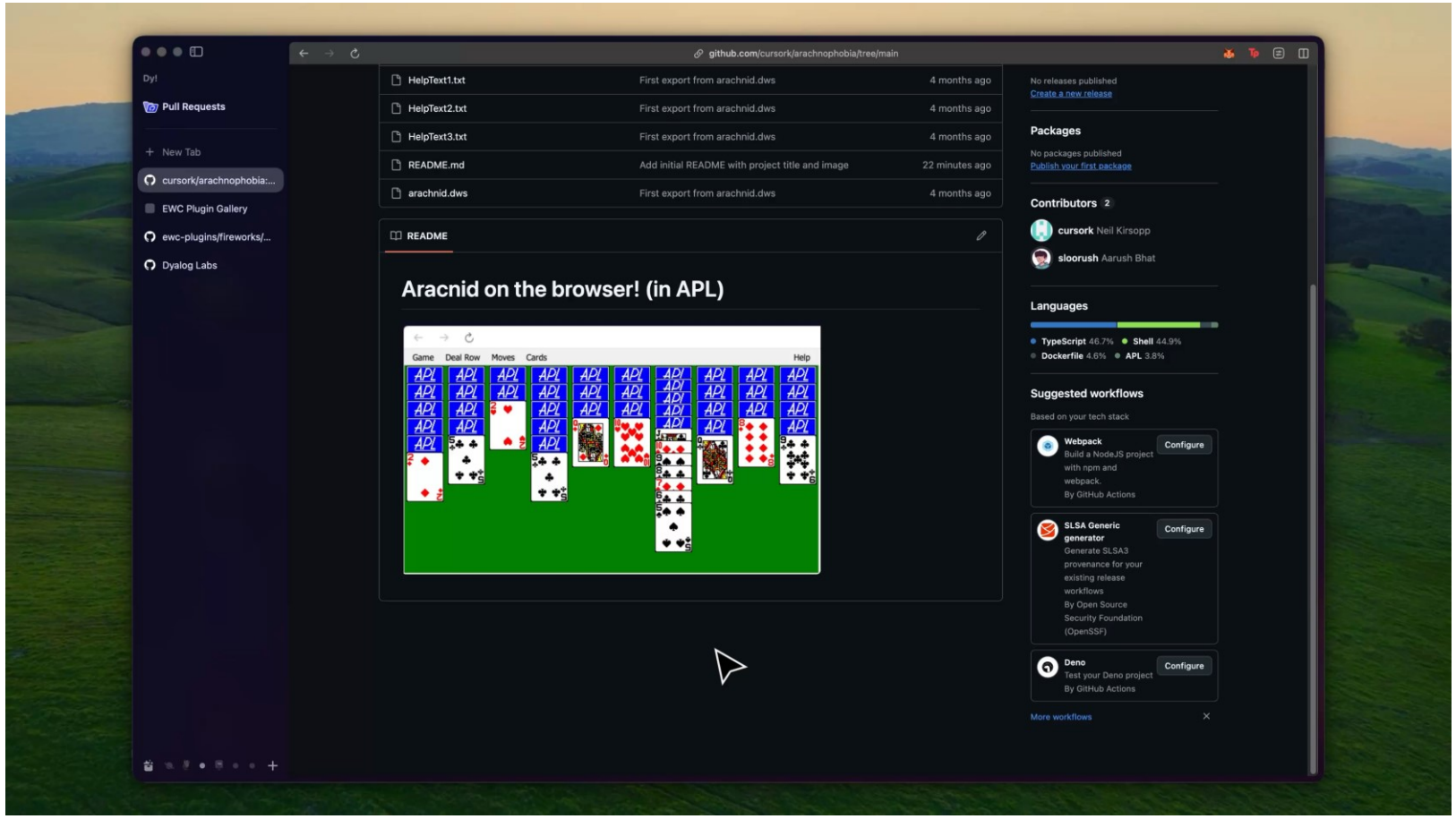
Arachnid

The famous Dyalog APL Arachnid from 1992, ported. Same code as the ⎕WC app, just on a new platform.

With only ⎕→e changes

Demo time!

Arachnid on the browser!



□→e

.dws → text files

What are we thinking about?

Where we are

- Parity with □WC is close for the everyday classes
- Porting is cheap
- We moved to having releases
  - Releases are safe, tested, and deliberately **boring**
- Still early-adopter territory

What is next

- Close the remaining gaps, class by class
- Your apps: onboard - tell us what breaks and it goes on the list

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Complain!

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Complain! We need a corpus of applications

Part Two: Testing

A year of unbreaking EWC

Docker · Playwright · visual regression

Testing GUIs

- A GUI test has to click, type, wait and look
- “Looks right” is hard to assert
- Tests are slow to write and break whenever the UI changes, so most teams give up and test by hand

How we test EWC

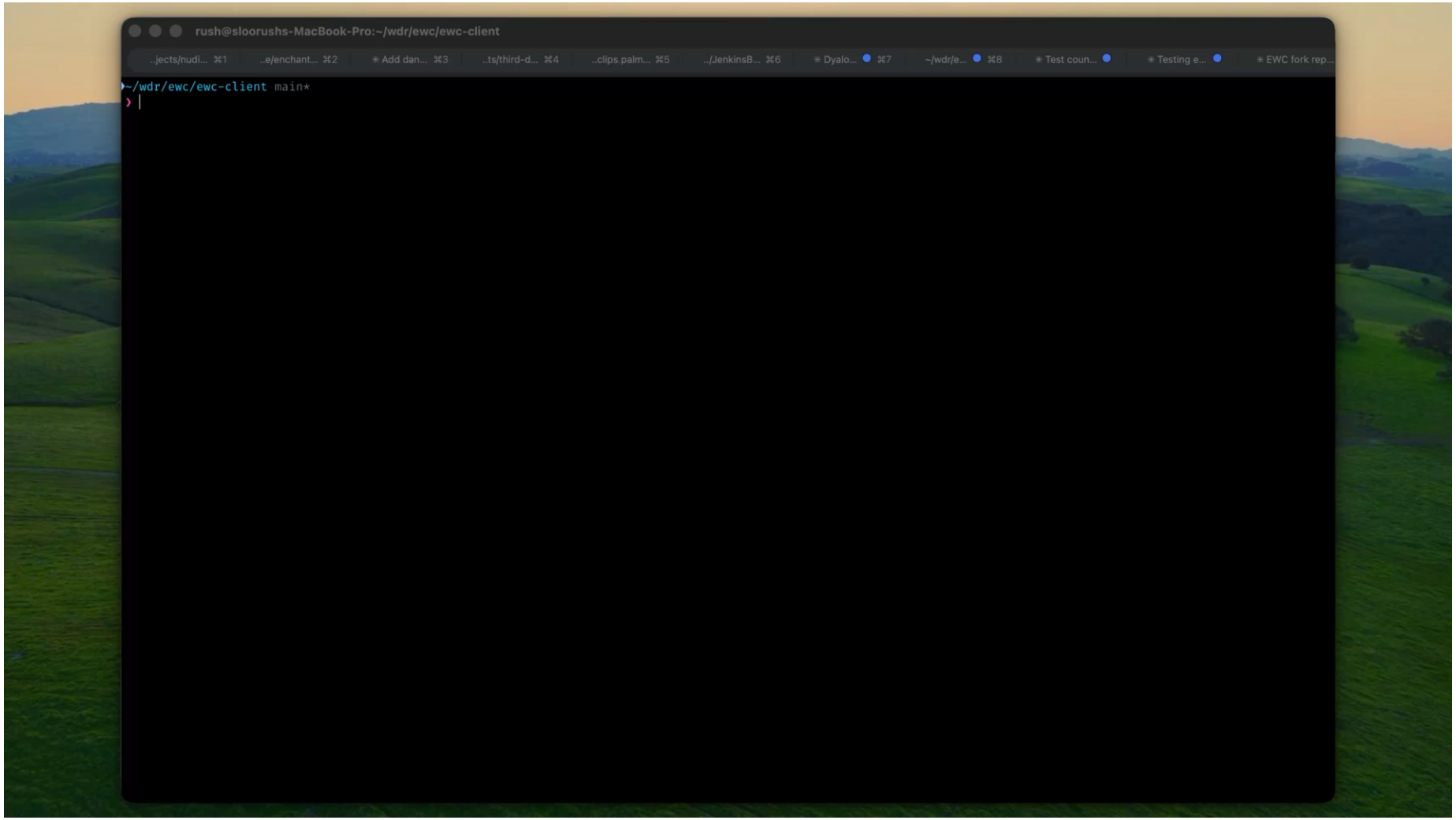
Real stack, no mocks

- Real browser/desktop
- ~100 demo apps as fixtures
- Dyalog in Docker, locally and in CI

What runs

- Automated CI on GitHub
- Every commit is tested
- ~445 Playwright tests
- Applications tests running on local – soon to be moved to a CI

EWC tests in action



Search tests

All 7 | Passed 3 | Failed 4 | Flaky 0 | Skipped 0

Metadata

10/9/2026, 11:44:07 AM Total time: 24.8s

basic/combo.spec.ts

- ✕ **DemoCombo › visual: combo closed state** 679ms
  basic/combo.spec.ts:279
- ✕ **DemoCombo › visual: dropdown open state** 728ms
  basic/combo.spec.ts:291

basic/grid-styles.spec.ts

- ✕ **DemoGridStyles - Visual Regression › visual regression - grid styles demo** 1.2s
  basic/grid-styles.spec.ts:331

basic/grid.spec.ts

- ✕ **DemoGrid - Visual Regression › visual regression - grid demo** 994ms
  basic/grid.spec.ts:805

basic/buttons.spec.ts

- ✓ **DemoButtons › visual regression - buttons demo** 1.1s
  basic/buttons.spec.ts:87

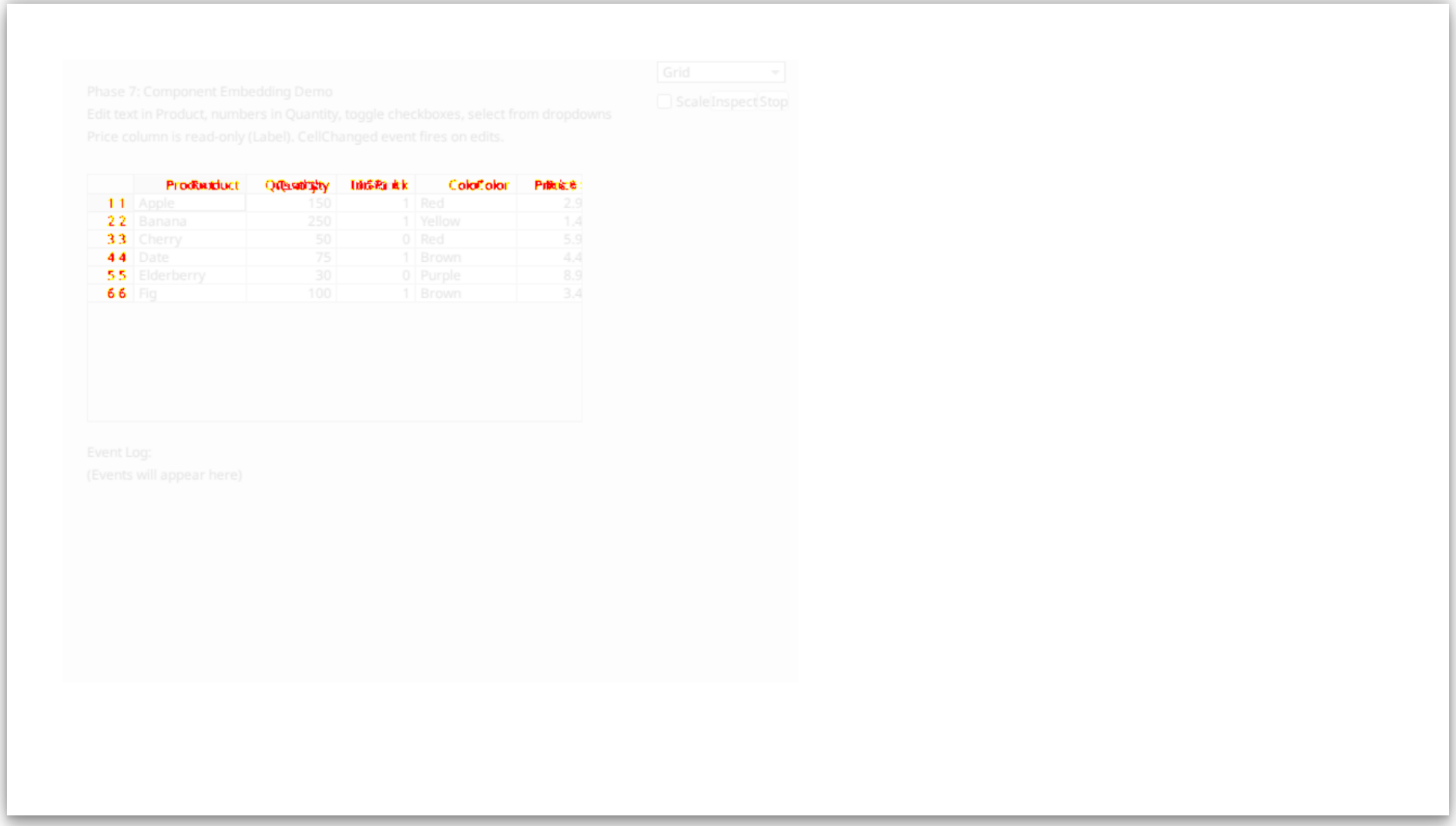
basic/stdcolors.spec.ts

- ✓ **DemoStdColors › visual regression - stdcolors demo** 215ms
  basic/stdcolors.spec.ts:49

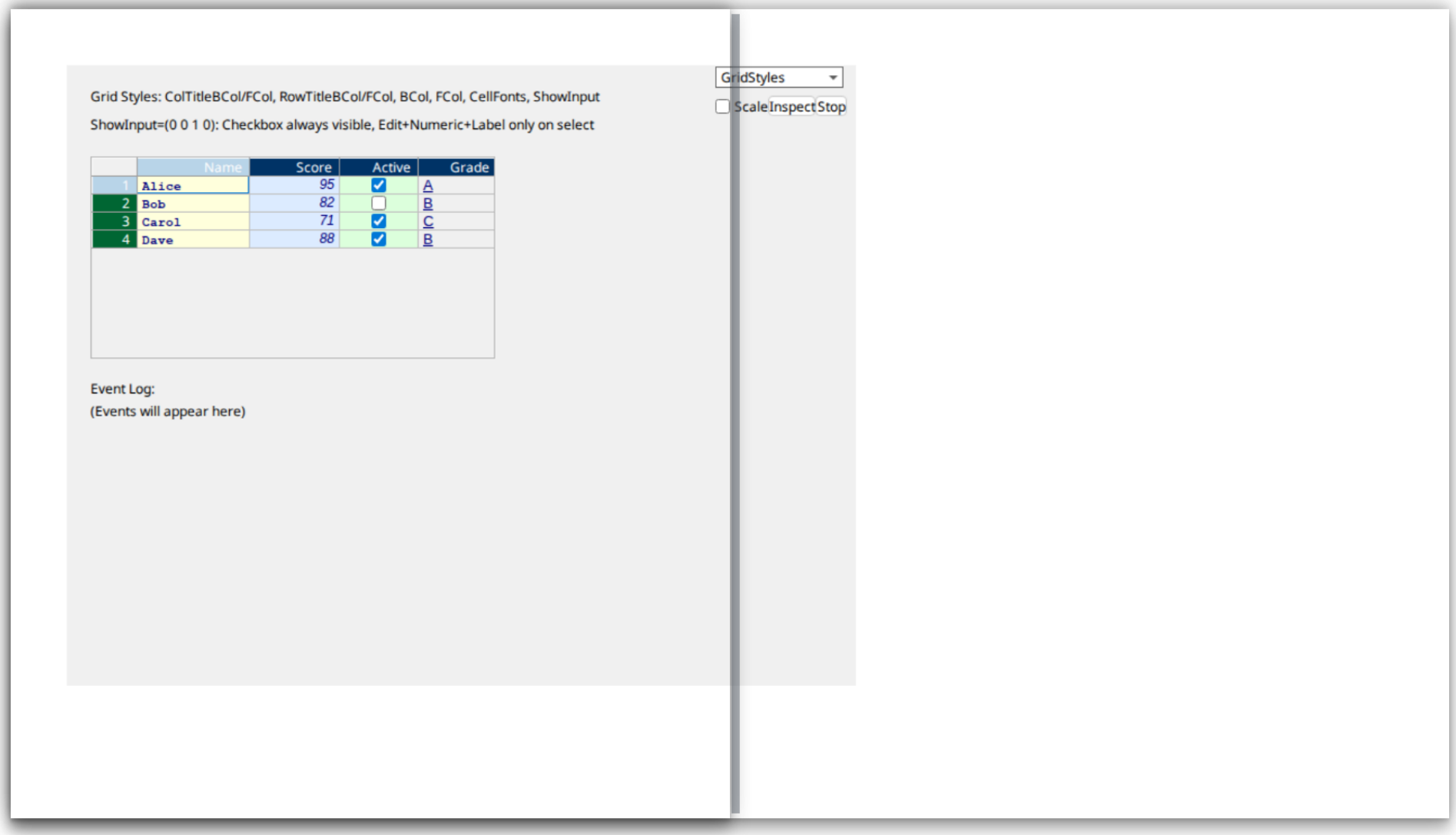
basic/tictactoe.spec.ts

- ✓ **DemoTicTacToe › visual regression - tictactoe demo** 369ms
  basic/tictactoe.spec.ts:87

Diff Actual Expected Side by side Slider



Diff Actual Expected Side by side **Slider**



Fin

Try it. Port something small. Tell us what breaks.

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eWC