CODERAGE 2025

Using AI To
Develop A Working
Delphi Multi-Device Application

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Agenda

- **About David I**

- **LLMs for Coding**

- **My Process for this Talk**

- **Started with a Simple Prompt**

- **Demos**

- **Lessons Learned**

- **Summary**

- **Q&A**

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About David I

- Wrote first program in September 1969 – Fortran prime number generator
- Software Engineer for 52+ years
- Worked at Borland/Inprise/CodeGear/Embarcadero for 32 years
- Embarcadero MVP
- Still using Delphi and C++Builder every day
- Blogs:
  - https://blogs.embarcadero.com/author/davidi/
  - https://blog.davidi.com/
- Social:
  - LinkedIn - https://www.linkedin.com/in/davidi99/
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LLMs for Coding

- OpenAI GPT-5 / GPT-5-Codex
- Anthropic Claude 3.5 Sonnet / Claude 4.x Sonnet with Claude Code
- Google Gemini 2.5 Pro
- Meta Llama 3.1 405B Instruct
- DeepSeek-V2.5-1210 (with DeepSeek-V3 as the successor)
- Alibaba Qwen2.5-Coder-32B-Instruct
- Mistral Codestral 25.01

  Source:

  https://www.marktechpost.com/2025/11/04/comparing-the-top-7-large-language-models-llms-systems-for-coding-in-2025/

- Updates:
  - GPT 5.1 - November 2025
  - Gemini 3 - November 2025
  - Claude Sonnet 4.5 - September 2025

My Process for this Talk

- My plan
  - Learning to build multi-device apps
  - LLM(s) do all the work - creation, updates and fixes
  - Record/Report all of the interactions, issues, progress
- Use ChatGPT 5, Claude Sonnet 4.5, Gemini 3
- My General use of "modern" AI
  - IDE for Code Completion, Features, Modernization
  - Create Prototypes and Explorations
  - Integrate AI functionality SDKs

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Started with a Simple Prompt

- "Use Delphi 13 and FireMonkey FMX to create multi-device futuristic text adventure application that features a tour through the solar system planets, moons and major asteroids"
- Then "vibe" with the flow

Demos

- ChatGPT 5
- Claude Sonnet 4.5
- Gemini 3

Lessons Learned

- Use as much specificity in prompts up front to avoid mistakes
- Tools continue to improve, evolve, appear, disappear
- Check support for languages, libraries, frameworks, architectures and platforms
- Benchmark scores don't predict production code completeness
- Leverage IDE/tool integration, components and automation

Summary

- ChatGPT 5 – offered app features, helped with error & exceptions, working app
- Claude Sonnet 4.5 – created simple app, UI took time to prompt tune
- Gemini 3 – created project and separated UI from engine, no project zip download

Thank You!

Q&A

Code, Slides, Documents on GitHub
https://github.com/davidi99/SolarSystemTextAdventure