

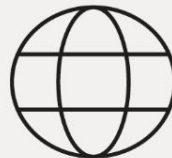
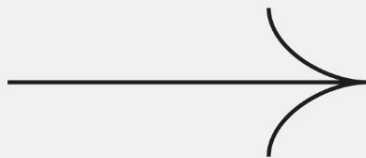


# Turning text into multi-voice audiobooks with Gemini

Tomek Porożyński  
Google Developer Expert, Cloud Architect

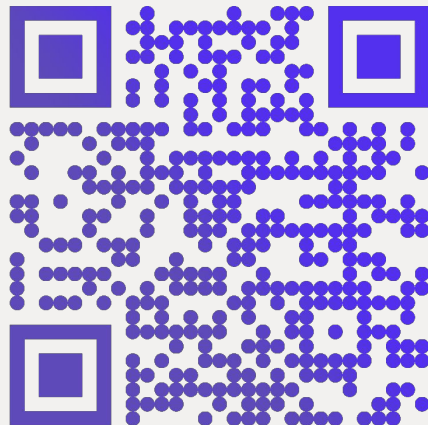


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

**GDE for AI & Cloud  
Cloud Architect at PwC  
from Bydgoszcz, Poland  
in love with Marsa Alam**

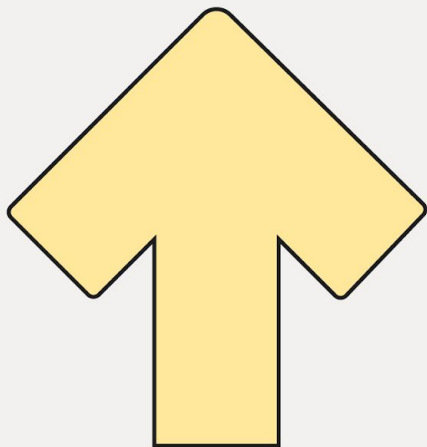
Tomek Porozynski



01

# Turning text into audio

 Text →  TTS →  Sound waves



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Text analysis → breaks down sentences, identifies words and punctuation



Phonetic conversion → maps words to sounds using dictionaries/rules



Audio synthesis → generates actual sound waves to produce speech



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# VODER (1939)



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# DECtalk (Digital Equipment Corporation, 1983)

Voder: "I am Huge Harry, a very large person with a deep voice. I can serve as an authority figure."



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## IVONA (2005)



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## Modern GenAI Era (2020s+)

- 🗣️ Multi-voice synthesis → multiple distinct voices in single generation
- 🌟 Emotion & expression control → tone, pace, emphasis on demand
- 🎤 Voice cloning → create custom voices from audio samples
- 💬 Natural language prompting → "make it sound anxious" or "speak slowly with a smile"
- ⚡ Real-time generation




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## Modern GenAI Era (2020s+)

... to name just a few:

 ElevenLabs (2022) → Polish startup, voice cloning from minutes of audio, emotional synthesis

 OpenAI TTS (2023) → 6 preset voices, HD quality, steerable with instructions

 Google Gemini TTS (2025) → natural language prompts ("speak like a sympathetic agent"), multi-speaker dialogues


 Open Source → Bark, Tortoise, Coqui TTS - community-driven alternatives



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02

# Google Gemini TTS

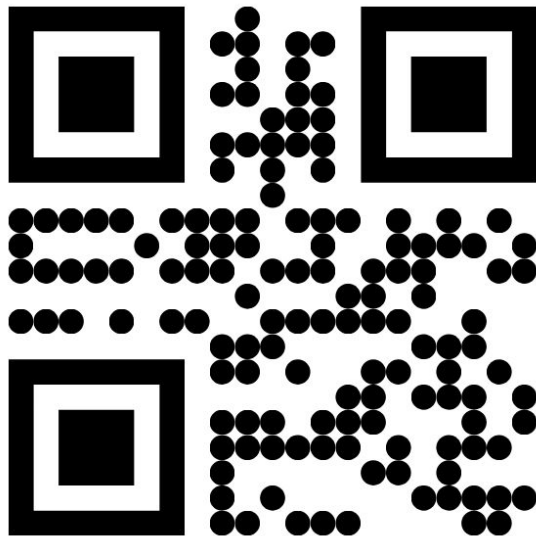
 Let's wrap up the slides and start with some demos!



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# Google AI Studio

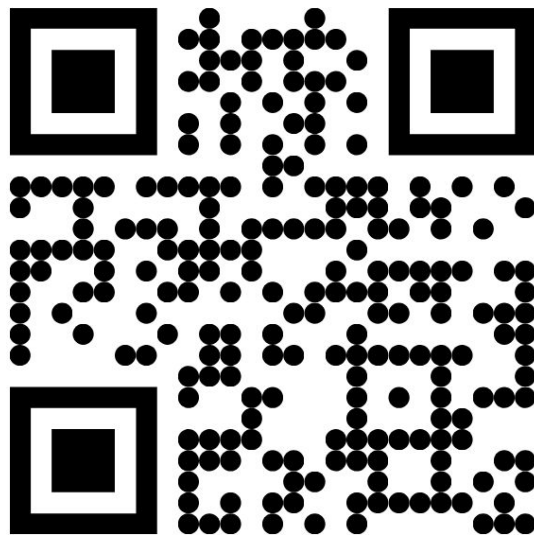
<https://ai.dev>



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# Google Colab

<https://google.colab>

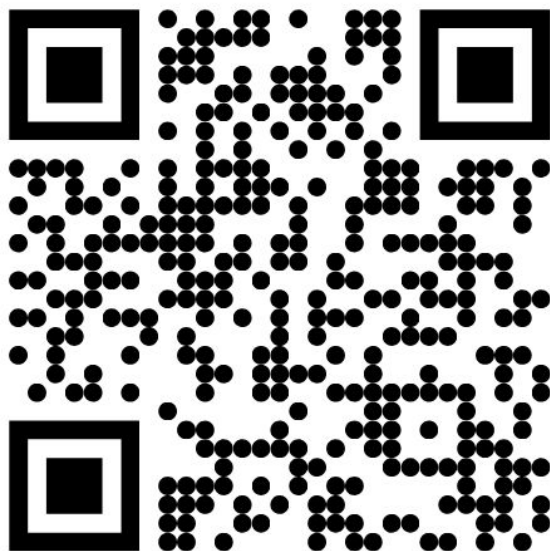


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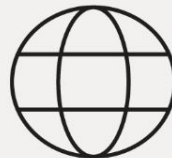
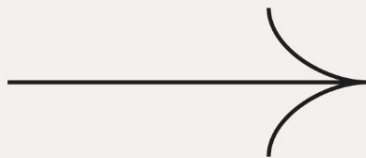
## Link to workshops



GitHub Repository: <https://github.com/ontaptom/cairo/>



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# Thank You! Questions?

Tomek Porozynski

