

GoTalks - 21.05.2024 - Zagreb

Building TUI Apps with BubbleTea



About Me

- 3 years as Frontend engineer in Croatian Telekom
 - UI/UX expert for HT customer portal
 - Digital transformation
- 4 years as Go developer at Sartura
 - Started as frontend developer
 - Switched to Golang
 - Have not looked back since
 - Ended as backend team lead
- CEO of Turofield
 - Company specialized in Golang development



Showcase: Agent Manager

Tool for managing IoT devices



Charm.sh

- BubbleTea is a part of a family of libraries made by charm.sh
- Charm.sh raised \$6 Million USD of funding for development
- Other notable libraries
 - Lip gloss - terminal style and layout
 - Glamour - stylesheet driven markdown renderer
 - Bubbles - BubbleTea component toolkit
 - Log - Logger
 - Harmonica - Physics based animation toolkit



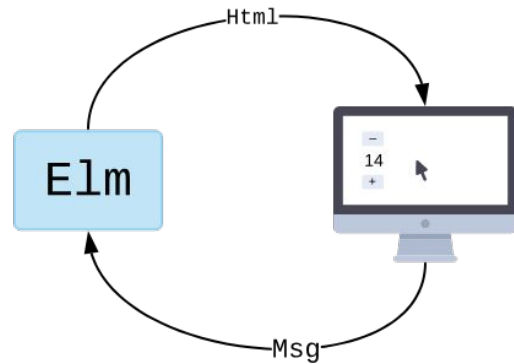
BubbleTea - Overview

- TUI
- Library for building stateful terminal applications written in Go
 - 21.1K Github Stars
 - Open Source
 - MIT License
 - Used by AWS, NVIDIA, Microsoft Azure, etc.



Inspired by

- Elm programming language
 - Functional language that compiles to JavaScript
 - For building websites and web apps
- The Elm Architecture
 - Model - application state
 - View - state into user interface
 - Update - updating state based on messages

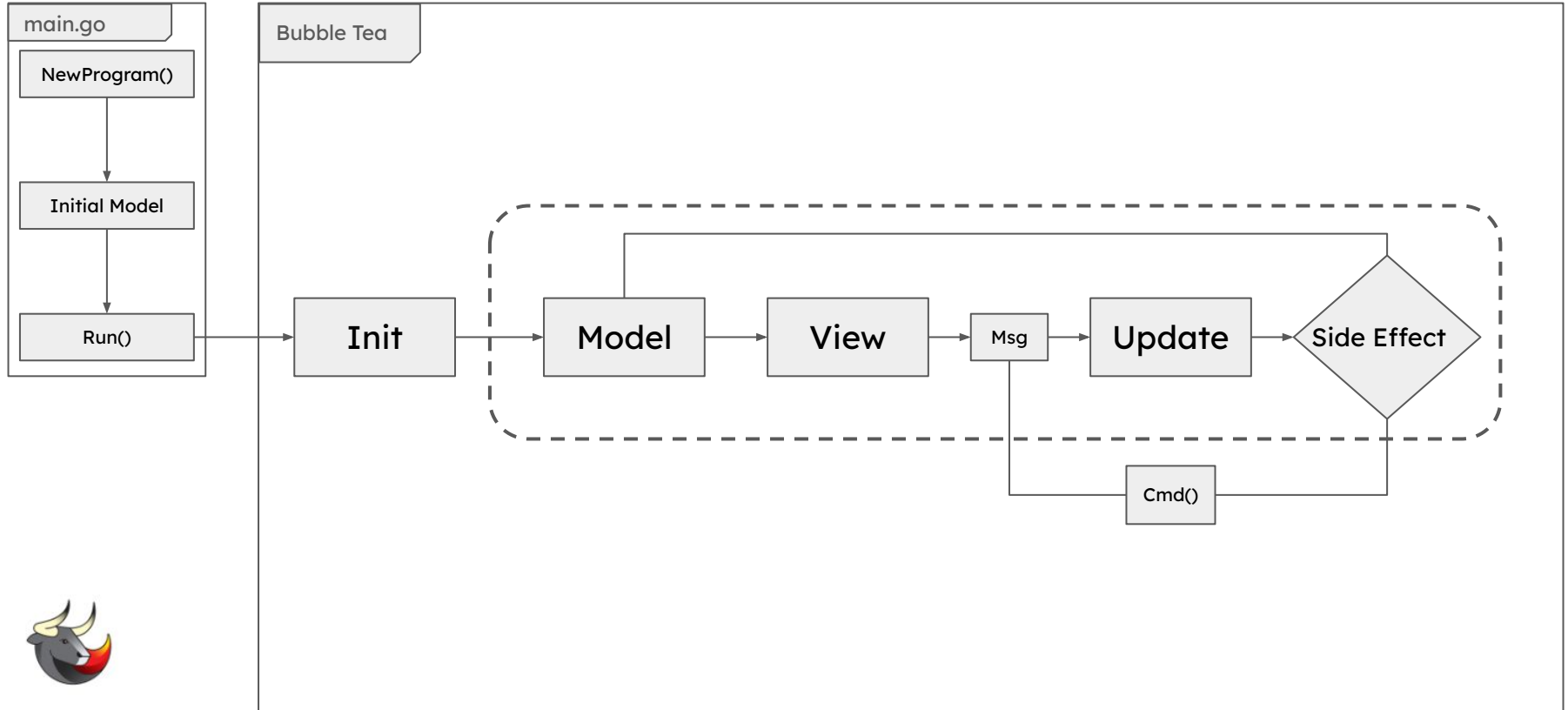


BubbleTea

- Model - describes application state
 - Init - Function that returns initial command for the application to run
 - Update - Function that handles incoming events and updates the model
 - View - Function that renders the UI based on the data in the model
- Initialization - initializes the application default state
- Update method - function that is called when “things happen”



Architecture



Enough theory

Let's see some examples.



Thank you!

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