

# Fixing Tools Not Problems

Our Long Journey The  
Tool Treadmill Part 1

Part 2 of 7: Steps 1-3

# The Software Treadmill

## Solving One Problem Creating Another

⚙️ How building software changed a long road kind of a **treadmill**.

⚙️ Let's trace the steps and the pattern of added complexity.

# Step 1 Starting Out

## Raw Control e.g C

- ⚙️ We had **full control** but wow hard work!

- ⚙️ Had to write everything manage memory carefully.

- ⚙️ Easy to make mistakes **slow progress.**

# Step 1 Summary

## Baseline Complexity

- ⚙ Problem Solved Nothing (Baseline).
- ⚙ New Problem **Manual Effort/Risk.**

# Step 2 Libraries Frameworks Arrive

## Reusable Code Components Helped

⚙️ These helped!

Got **pre-built code** pieces.

⚙️ Didn't have to rewrite basic stuff  
constantly.

# Step 2 The Downside

## Dependency Hell Framework Learning Curve

⚙️ But then we had "**DLL Hell**" things breaking from library conflicts.

⚙️ Had to learn **huge complicated** frameworks.

# Step 2 Summary

## Boilerplate vs Dependencies

⚙️ Problem Solved Didn't have to write basic stuff.

⚙️ New Problem Managing **dependencies and complex frameworks.**

# Step 3 Easier Languages

VB C Java Python etc

⚙ Made coding faster with **automatic memory management** (GC).

⚙ Great!

Simplified many core coding tasks.



# Step 3 The Ecosystem Explosion

## Constant Change Information Overload

⚙️ But worlds around these languages got **huge**.

⚙️ So much to learn **constantly changing**.

# Step 3 Summary

## Less Low Level Work More Learning

⚙️ Problem Solved Less low-level coding work.

⚙️ New Problem Keeping up with **giant ecosystems.**

# Insight

## Early Layers of Complexity

- ⚙️ These first steps brought progress but also layers of overhead.
- ⚙️ We started spending time managing the tools themselves.

# Next

## Next The Treadmill Speeds Up

- ⚙️ Next we enter the era of Big Data

Containers K8s Microservices.

- ⚙️ The complexity pattern continues and intensifies.

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