Retro Development: Alternatives and Constraints

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Alternatives

Platform(s)

Compilation or cross-compilation

Programming languages

Frameworks and libraries

Platform(s)

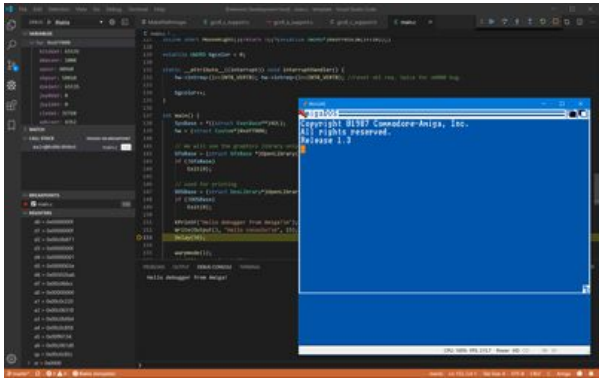
- Real hardware
  - Rare/expensive
    - Apple Lisa, Amiga CD32
  - Upload programs
    - Dying tapes and disks
    - No networking
    - Limited expansions

- Emulators
  - Many emulators by hobbyists
    - Some work very well
      - WinUAE
    - Other much less so
      - ZSNES
  - Many emulators need ROMs
    - Amiga Kickstarts are copyrighted and licensed
    - C65 Kernal and BASIC ROMs are in a gray area

Compilation or Cross-compilation

- Real hardware
  - “It's the Real Thing”™
  - Usability
    - Editors?
    - Compilers?
    - Speed...
  - Frustration
    - Memory protection
- Emulators
  - Variable quality/stability
  - Debugging capability
  - Quick(er) turn around

- Modern OS/hardware
  - Not the same experience
  - Usability
    - Modern IDEs
    - Speed!
  - Frustration
    - Transfer to real hardware



Programming Languages

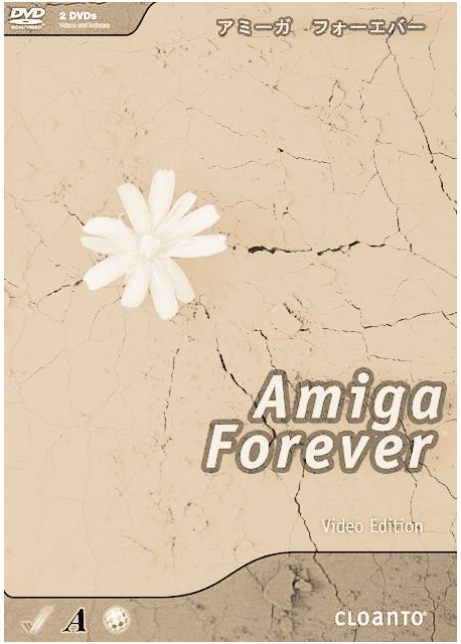
- Assembled/Compiled
  - Dialects of Assembler and C
  - Pros
    - Fast
    - Low level
  - Cons
    - Complexity
    - Understandability
    - Safety/Security

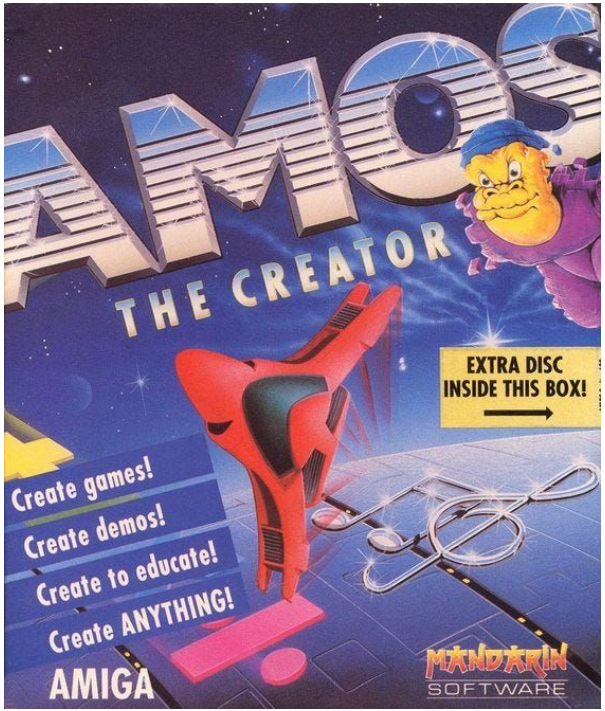
- Licensing and cost
  - Some compilers, IDEs, BASIC are copyrighted and not free

Frameworks and Libraries

- Do Not Reinvent the Wheel
  - Levels
    - Game creators
    - Game engines
    - Frameworks
  - Pros
    - Simplicity
    - Time/Effort
    - Learning curve
  - Cons
    - Style/Target
    - Bugs

- Reinvent the Wheel
  - Pros
    - Lots of effort
    - Learning
    - Control
    - Simplicity
  - Cons
    - Complexity
    - Time/Effort
    - Learning curve


DVD
2 DVDs
アミーガ・フォーエバー
Amiga Forever
Video Edition
CLOANTO


AMOS
THE CREATOR
EXTRA DISC INSIDE THIS BOX!
Create games!
Create demos!
Create to educate!
Create ANYTHING!
AMIGA
MANDARIN SOFTWARE

WinUAE

AmigaForever and WinUAE

Grab a ticket with the license number

Download AmigaForever

- https://drive.google.com/drive/folders/1zshChxDFg40aufrPZJMu3WhfVnhpmtRj
- `AmigaForever2013Plus.msi`

Install AmigaForever

AmigaForever and WinUAE

Download WinUAE

- https://www.winuae.net/download/

Install WinUAE

- It should detect automatically the Kickstarts (ROMs)

Download

- `Amos600.uae`
- `GameJamReAnimate24.7z`

Run WinUAE with this config.

AMOS

AMOS BASIC, dialect of BASIC for Amigas

https://amospromanual.dev/