Oricutron.js

An Oric in your web browser

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Before

- It was impossible to have an Oric emulator on my iPad

- But there are web emulators for a ton of computers

- https://github.com/fcambus/jsemu

- https://archive.vg/blog/a-big-list-of-browser-based-emulators-and-ports-of-classic-games

- http://torinak.com/qaop/links

- There is even a Mac emulator that works on my iPad

  - https://jamesfriend.com.au/pce-js/

  - Here is how it was made: https://jamesfriend.com.au/porting-pce-emulator-browser

Enters emscripten

- https://emscripten.org/

- Emscripten is a complete compiler toolchain to WebAssembly, using LLVM, with a special focus on speed, size, and the Web platform.

- You can compile C code into a WebAssembly and run it in an emulator

- Ports of the SDL exists

- Oricutron is based on the SDL

- This smells good !!!

Maybe someone tried that already ?

- Post on defence-force forum on the 8th of November at 10:25

- https://forum.defence-force.org/viewtopic.php?f=22&t=2197

- Meanwhile I looked a little bit into that and…

- By 4pm I had a first working version ;)

- https://forum.defence-force.org/viewtopic.php?p=23728#p23728

The bugs start to pour

- JavaScript is an event based programming language

- You have to re-think your C sequential code to adapt to it

- Or you end up crashing your browser tabs

- Web browsers are only mainly compatible with each others
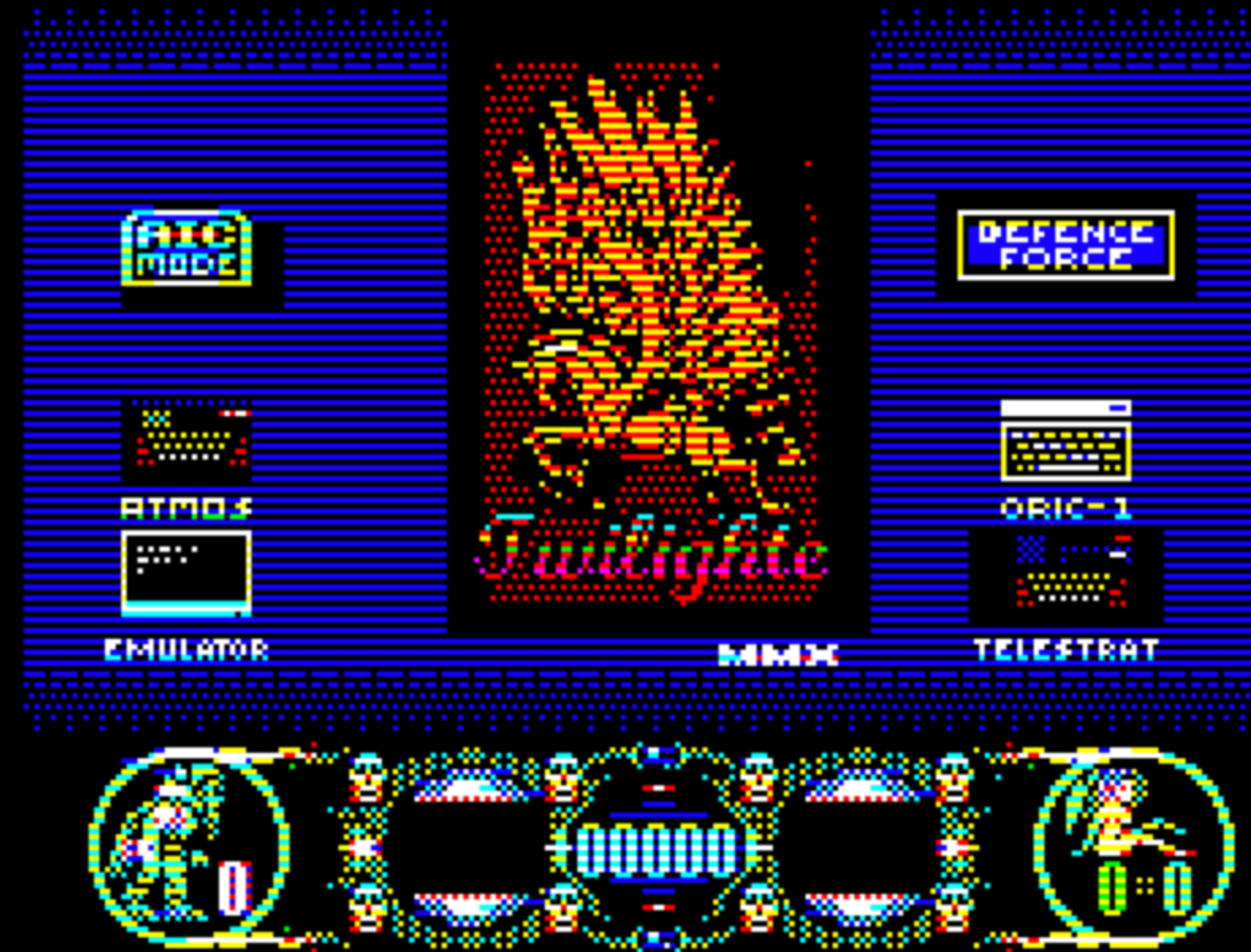
- Safari on the iPad is very basic in fact :(

What if I want to save my Game ?

- You can store things in your browser

- IndexedDB is your friend

- https://developer.mozilla.org/en-US/docs/Web/API/IndexedDB_API

- emscripten guys wrote a simple UNIX filesystem over this ;)

- https://emscripten.org/docs/api_reference/Filesystem-API.html

Demo Time ;)

- Let's play a little:

- https://torguet.net/oric/

I want to do the same!

- It's quite easy

- First download this file: https://torguet.net/oric/OricutronJS.zip

- Extract everything on your web site

- Upload some dsk and tap

- And Voilà!

- If you don't have PHP on your website then you may have to edit the index page

Future work

- There are still some strange bugs

- I want to make a Web GUI, as well as an option to upload your own dsk and tap in the emulator (not through the website)

- Long term goal, rewrite everything in JavaScript

- Thanks to Fabrice Frances there is a Java version of Euphoric

- Why not making Euphoric.js

- This will take some time so relax and take care ;)