Intro to Emojinal or



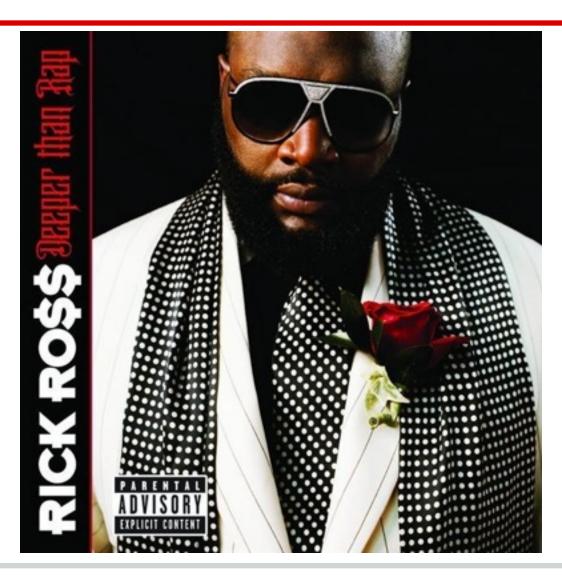




Lambda Lounge Chattanooga February 2014

```
def V(b:LogicBoolean)=new LogicBoolean(this.value | |
b.value)
def ∧(b:LogicBoolean)=new LogicBoolean(this.value &&
b.value)
def \rightarrow(b:LogicBoolean)=(¬(this)) V (this \land b)
object LogicBoolean {
  def ¬(a:LogicBoolean)=new LogicBoolean(!a.value)
  implicit def boolToLogicBool(x:Boolean)=new
LogicBoolean(x)
}
def expr(a:Boolean,b:Boolean,c:Boolean,d:Boolean)=
((a \land b) \lor \neg(a \land c)) \land ((c \lor d) \land \neg(b))
```

Deeper than semantics



Emojinal

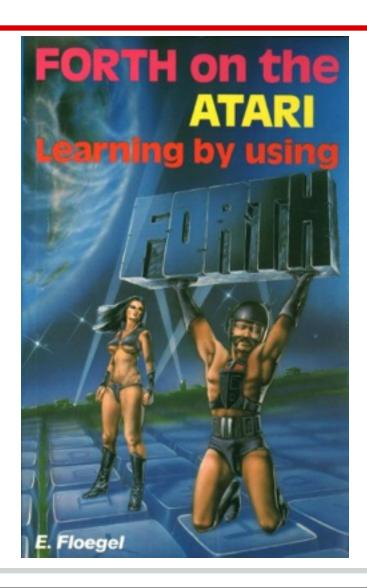
Emojinal is an emoji-only, stack-based programming language.

It transpiles to JavaScript.

It runs on node.

It was released in 2013.

It was created by Addie Wagenknecht & Ramsey Nasser.



Hello World

Syntax

Prefix notation.

Emoji codepoints (in the Unicode meaning) map to a stack-based pseudocode, which is parsed into JavaScript.

There are Emojinal tokens that map directly to useful JavaScript tokens.

Compilation

The core compiling loop takes emoji characters,

converts them to ASCII pseudocode,

parses that pseudocode (using a library called PEG)

which results in a Forth-like JavaScript language (called FJS)

then sends the FJS code to the FJS interpreter to execute.

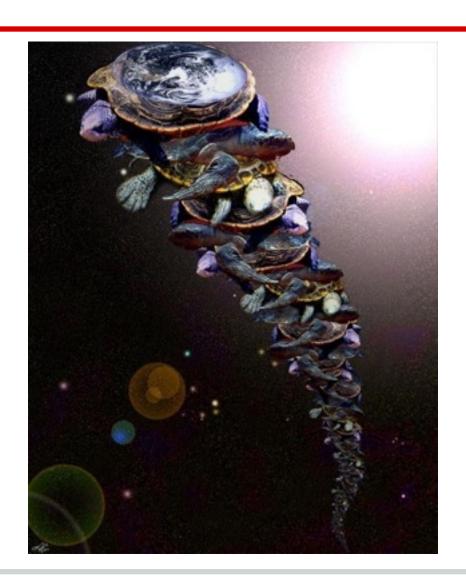
Execution

Execution is done by the FJS interpreter,

and uses a single stack for keeping state.

FJS executes on node.js.

JavaScript:



JavaScript Has a Unicode Problem

Just be grateful we aren't talking about a programming language in Tamil:



Emojinal.herokuapp.com A Processing DSL in Emojinal

Bouncing Pile of Poo

wandering snake line:

























Emojinal: Mobile-first

The natural environment to work with Emojinal is Safari on iOS.

Sapir-Worf hypothesis.

Culturally portable.











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