

fluxus & Scheme

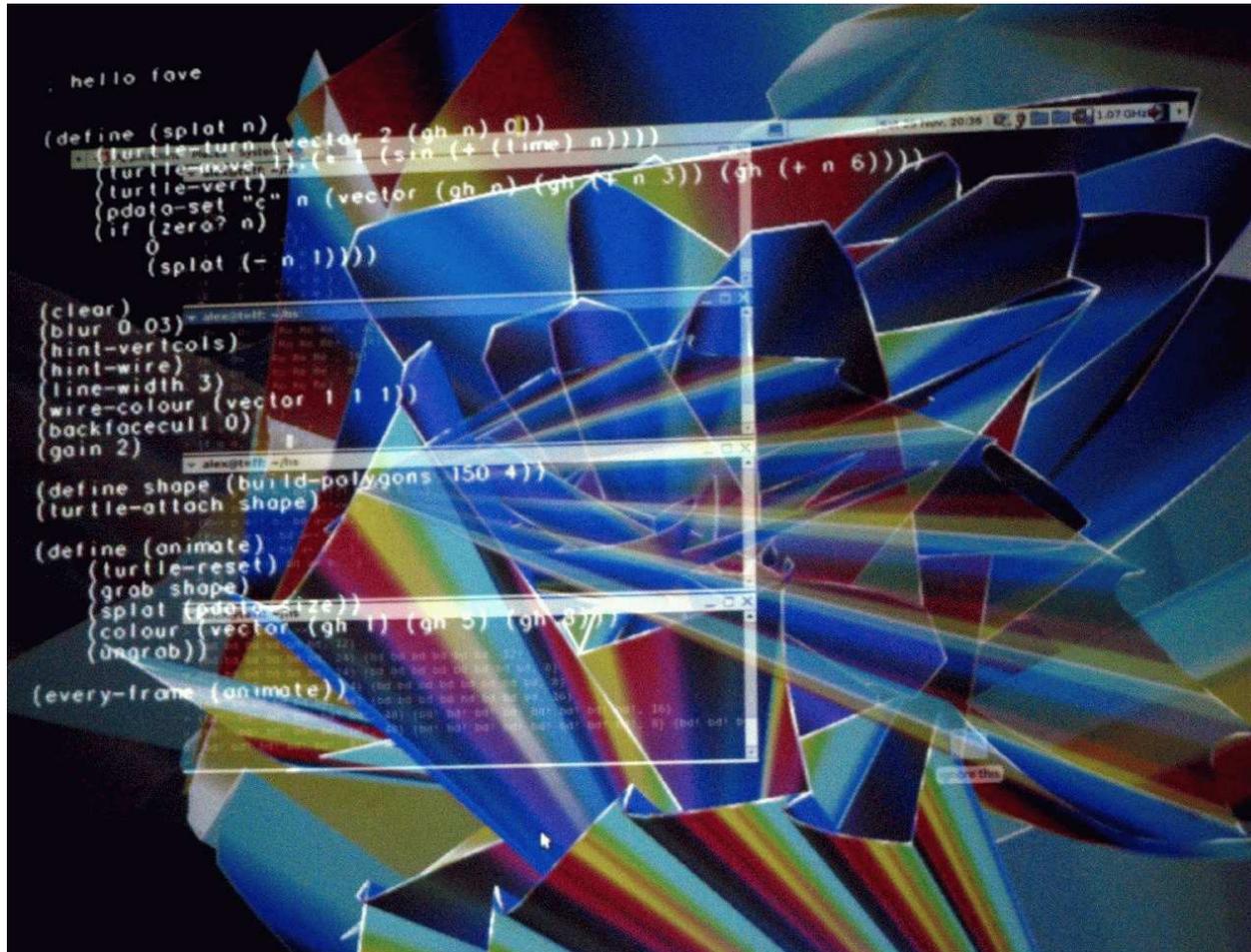
Dave Griffiths

Fluxus facts

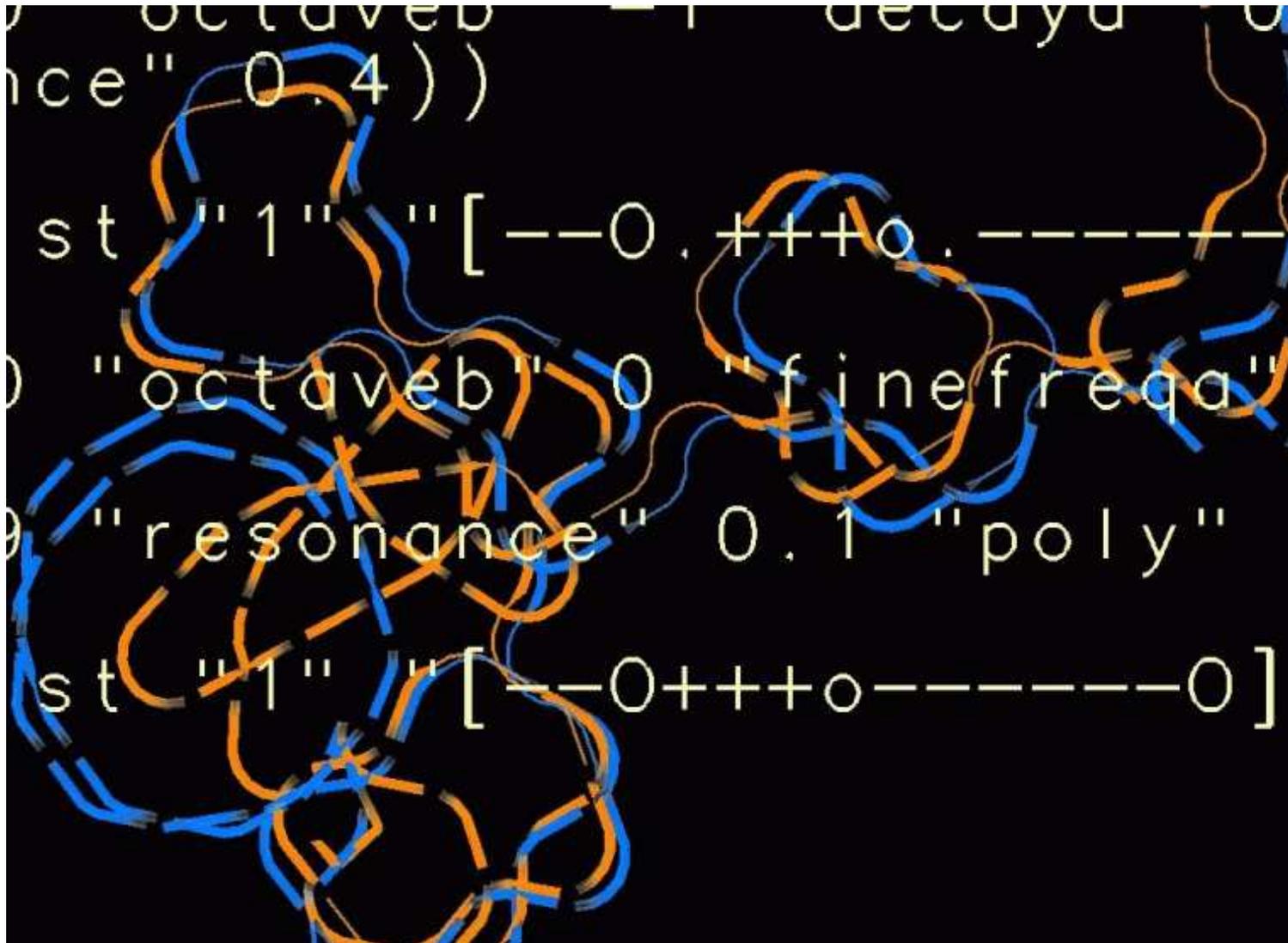
- A 3D rendering engine
- Scheme interpreter
- Uses mzscheme and OpenGL
- Free Software
- Works on Linux and sometimes OSX
- Version 0.1 released Tuesday, August 5th 2003 17:29 (courtesy of freshmeat)



I use fluxus for...



Live coding graphics, using live audio input



Live coding graphics and audio at the same time



As a framework for developing new livecoding languages

Scheme

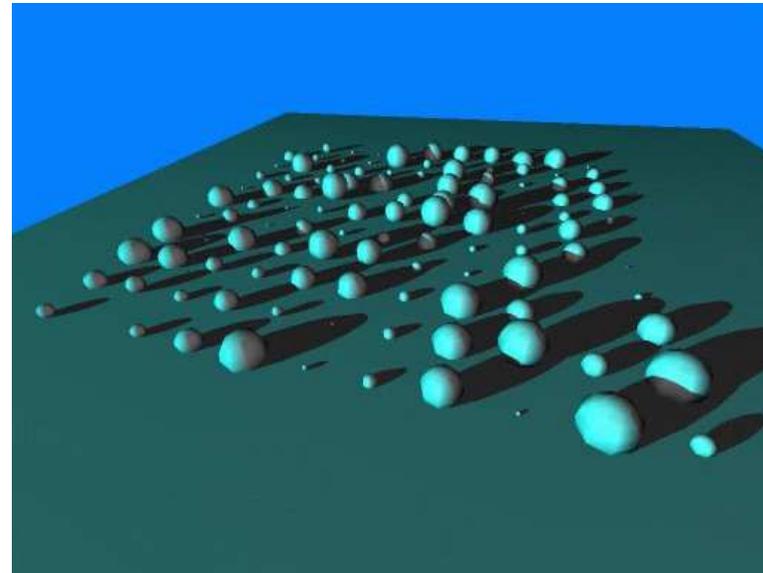
- Invented in 1975 by Jerald J. Sussman and Guy L. Steel Jr.
- A simplified dialect of Lisp
- A "high level" language
- A language for learning programming
- Influences modern languages such as Python and C#

... if you are used to a C based language
it can seem very strange

```
(define (factorial n)
  (if (zero? n)
      1
      (* n (factorial (- n 1)))))
```

Scheme is good for live coding

- Minimal syntax
- Functional
- Minimum code, maximum complexity



Livecoding

- Performance programming
- Mainly a musical field
- Reaction against the normal laptop performance
- Showing the audience what you're doing



TOPLAP

- Formed in 2003
- Promote Livecoding
- Has an Important Manefesto

