

1978-

Michael Joshua Ryan

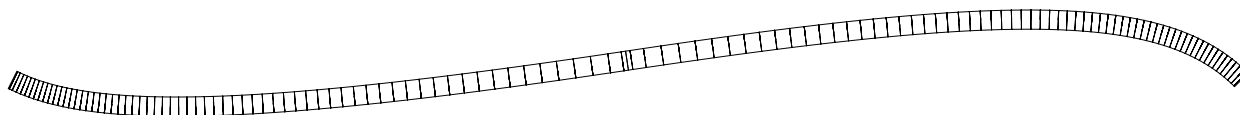
luser.droog@gmail.com

3447 Connecticut St. 104
St. Louis, MO 63118

202-494-2570

Objective

To combine Renaissance aesthetics, cosmopolitan ethics, and scientific technique in the critique and construction of physical and conceptual artifacts.



Education

Dec 2020 **BS Computer Science** University of Missouri - St. Louis

Skills

C, PostScript, Lisp, APL, Forth, Assembly, Java, JavaScript, HTML, CSS, PHP, shell scripting. Procedural, Functional, Object Oriented, Model/View/Controller.

Employment

1998-2001 Student Programmer, UM - St. Louis Registrar's Office. Perform MARKIV mainframe database queries (MVS/TSO) and reformat data (UNIX) to produce reports (Line-Printer) and address labels using Postscript. One interesting project was producing the data for a student directory with embedded Quark tags. Developed a system for interactive queries and accelerated data entry using WinBatch.

2002-2019 Barista, Starbucks Coffee Co.

Extracurricular

1989- Study the guitar, piano, bass, clarinet, music theory, songwriting. Rock, Folk, Jazz, Ragtime, Blues, Classical, Flamenco. UMSL Jazz Band, Jazz Ensemble, Pep Band, Concert Band.

1998-1999 "Redaktor" of the Pierre Laclède Honors College Student Association's *Brain Stew*. Designed and Edited monthly magazine using Pagemaker and various other tools.

1999-2000 Treasurer of the UMSL ACM Chapter. *Requisitioned "first" computer!*

1998-2003 Intense interest in programming languages and language implementation, graphics and graphics programming.

2007-present Began the xpost project with a goal to implement a clone of Sun Microsystems' NeWS graphical programming interface for UNIX. Participated in internet programming fora: `comp.lang.c`, `comp.lang.postscript`, `stackoverflow.com` under the name *luser droog*, contributing programs, answers and questions.

2014-present Performed in local musicals with Stray Dog Theatre and Ignite Theatre on electric bass, upright bass, and electric guitar.

Portfolio

2008-present xpost: A Level-1 Postscript Interpreter for GNU/Linux/X11 (github.com/luser-dr00g/xpost).
debug.ps: A portable Debugger for PostScript (github.com/luser-dr00g/debug.ps).
pcomb: Parser Combinators in C (github.com/luser-dr00g/pcomb).

```


20 %!PS
21 %Simple Typesetting Engine with Justified paragraphs
22 /margin 72 def /box [ clippath pathbbox ] def /left margin 30 add def
23 /top [ left box 3 get margin sub ] cvx def /right box 2 get margin sub def
24 /bot margin def /newpage { T top moveto } def /sigil<5E>def
25 /br { 0 lead neg rmoveto } def /hbr { 0 lead -0.5 mul rmoveto } def
26 /cr { left currentpoint exch pop moveto } def /buf <<>> def /++ { dup load 1 add store } def
27 /hr { gsave right left add 2 div currentpoint exch pop translate
28 7.2 dup scale -32 -1 moveto -28 -3 -20 -3 0 0 curveto
29 currentpoint strokepath currentlinewidth dup 72 div setlinewidth stroke setlinewidth
30 moveto 20 3 28 3 32 -1 curveto 1 setflat
31 strokepath currentlinewidth dup 72 div setlinewidth stroke setlinewidth grestore br } def
32 /rline { gsave dup stringwidth pop neg 0 rmoveto show grestore } def
33 /line { gsave sigil{search{show exch token pop exec exch}{show exit}ifelse}loop grestore } def
34 /par { (\n) { search exch line not { exit } if br
35 currentpoint exch pop bot lt { showpage newpage } if } loop br } def
36 /last { buf buf length 1 sub get 0 get } def
37 /append { buf length 0 gt { dup 0 get 0 1 getinterval (\n) exch search { pop pop last ( ) eq
38 { buf buf length 1 sub undef } if } if pop } if buf exch buf length exch put } def
39 /push { dup 0 get ( ) eq {pop}{ dup 0 get ( ) eq { buf length 0 eq {pop}{ last ( ) eq {pop}{
40 append } ifelse } ifelse }{ append } ifelse } ifelse } def
41 /trim { buf length 0 gt {last ( ) eq { buf buf length 1 sub undef } if } if } def
42 /buffer{ buf 0 get 0 get ( ) eq {1}{0} ifelse 1
43 buf length last ( ) eq {2}{1} ifelse sub 4 3 roll
44 {buf exch get} /exec cvx 3 2 roll /exec cvx 4 array astore cvx for } def
45 /dump {0 {spaces s} argsbegin { 0 get ( ) eq {/spaces ++} if } buffer
46 cr { aload pop pop setfont stringwidth rmoveto } buffer /gap right currentpoint pop sub def
47 /spaceadjust gap spaces dup 0 eq {pop 1} if div def cr { aload pop /lead exch def setfont
48 {dup ==only}pop s } buffer cr br end /buf <<>> def {/=}pop } def
49 /accum {dup currentpoint pop exch stringwidth pop add right gt {{spaceadjust 0 32 4 3 roll
50 widthshow} dump } if dup stringwidth rmoveto { exch currentfont lead } push } def
51 /jtext { ( ) { search exch dup (\n) eq {accum}{accum ( ) accum} ifelse not{exit}if } loop } def
52 /jpar { sigil{search{jtext exch token pop exec exch}{jtext exit}ifelse}loop {show} dump } def
53 /settab{/tabstop currentpoint pop def}/tab{tabstop currentpoint exch pop moveto}def
54 /argsbegin{ dup length dict begin {exch def} forall } def /proc { token pop exch pop } def
55 /fontproc {{name lead x} argsbegin ({/name //x selectfont /lead //lead def}) proc bind end } def
56 /I 10 11 /Palatino-Italic fontproc def /R 10 11 /Palatino-Roman fontproc def
57 /H 18 16 /Palatino-Roman fontproc def
58 /B {/Palatino-Roman findfont [14 0 0 10 0 0] makefont setfont /lead 13 def} def
59 /T {/Courier findfont [9 0 0 10 0 0] makefont setfont /lead 11 def} def
60
61 (1978- ) newpage rline
62 (Michael Joshua Ryan ^settab ^T luser.droog@gmail.com) H par
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64 St. Louis, MO 63118) R hbr par
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119 showpage

```

```

1 %!PS
2 %CV/Quine Demo
3 20 dict begin /quinedict currentdict def /hack (
4 dict dup/Duplex true put dup/Runble false put/setpagedevice dup where{pop cvx exec}{pop pop}ifelse
5 {/top { 45 582 } def /bot 440 def /lnum 0 def /++ { dup dup load 1 add store load } def
6 /line{ gsave /lnum ++ ( ) cvs gsave -10 0 rmoveto rline grestore show grestore }def %line numbers
7 /newpage { gsave 0 792 translate -90 rotate T top moveto } def /realisp /showpage load def
8 /showpage { grestore /newpage/T 45 770 moveto /bot 0 def/def /showpage /realisp load def} def
9 1 dict begin /prog currentfile 165 cvi string readstring pop def ( { //prog cvx end exec
10 /quinedict begin /T 7 7.6 /Courier fontproc def newpage (%!PS
11 %CV/Quine Demo
12 20 dict begin /quinedict currentdict def /hack ( dup dup length 1 sub 16#28 put par %type procLog
13 /hack dup length 2 sub 1 exch getinterval par %type hack
14 { def hack cvx exec} dup 0 16#29 put par %type seam
15 //prog dup length 2 sub 1 exch getinterval par %type prog
16 420 100 translate .27 .27 scale 0 0 612 792 4 copy rectclip rectstroke //prog cvx end exec %thumb
17 ) token pop exch pop end exec} exec quit %stitch proc, end progdict, execute
18
19

```

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