

Making of 549NOTES.COM

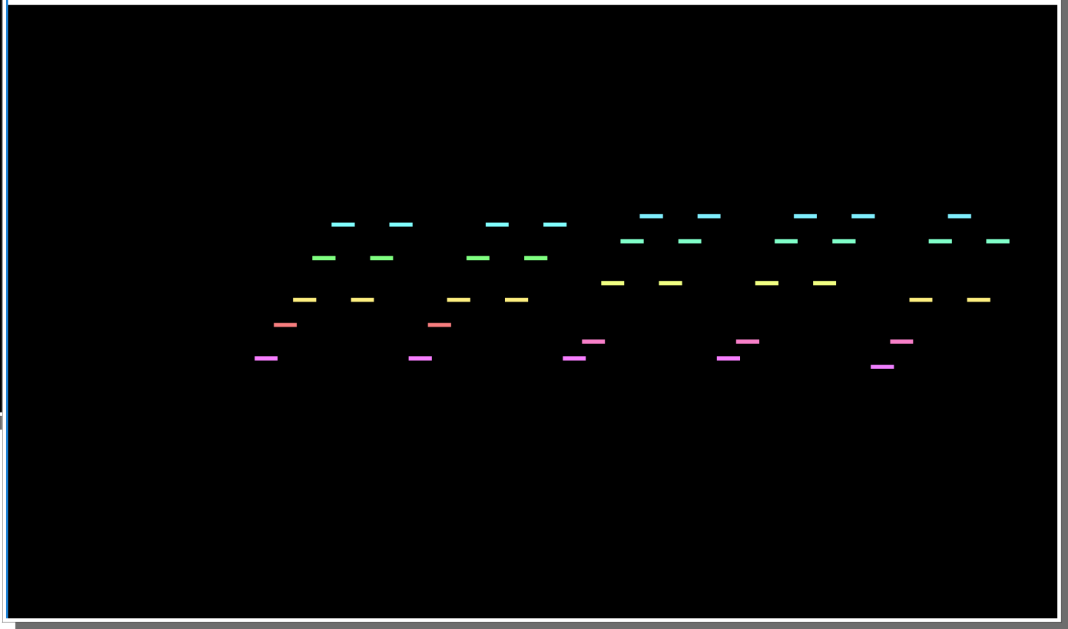
the 256-byte intro PC-DOS intro
which plays 549 notes

DOSBox 0.74, Cpu speed: 100000 cycles, Frameskip 0, Program...

```
W:\>dir *.com
Directory of W:\.
549NOTES COM          256 02-01-2019  9:
DEBUG   COM          20,788 02-01-2019 10:
INSIGHT COM          32,935 02-01-2019 10:
   3 File(s)            53,979 Bytes.
   0 Dir(s)      262,111,744 Bytes free.

W:\>_
```

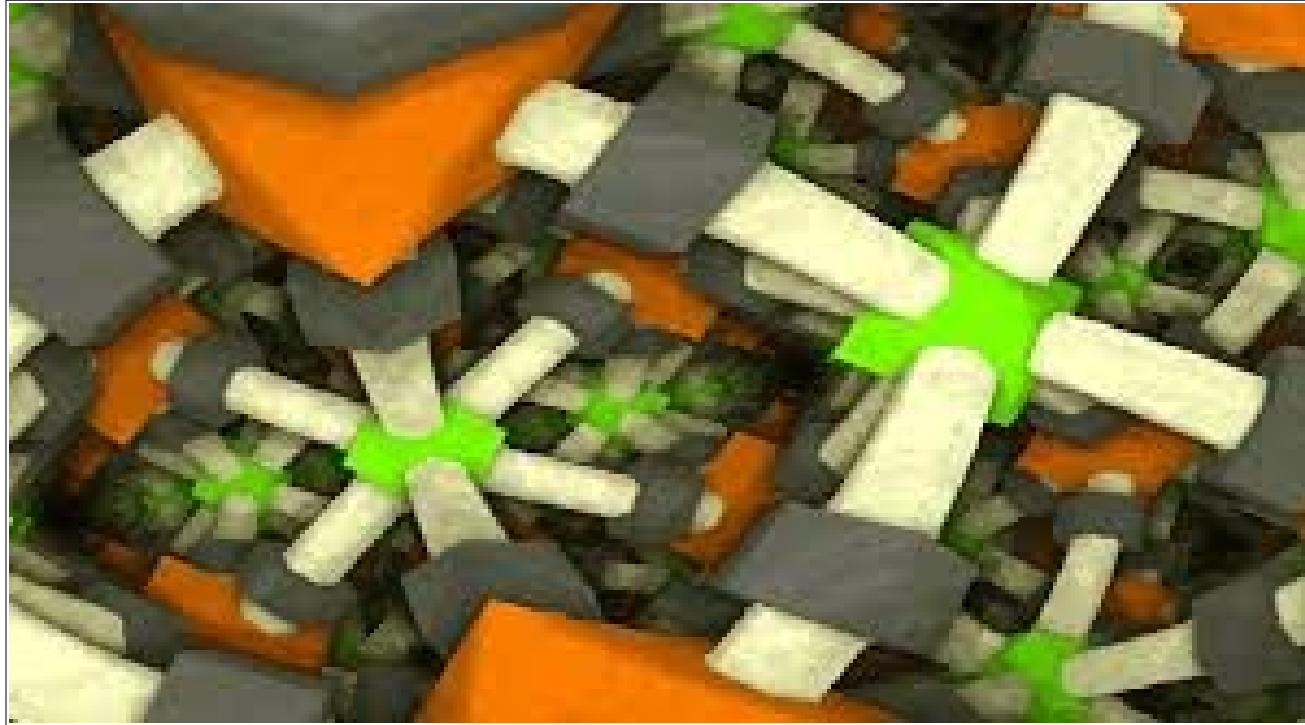
DOSBox 0.74, Cpu speed: 100000 cycles, Frameskip 0, Program...



256-byte demoscene: extremely strong competition

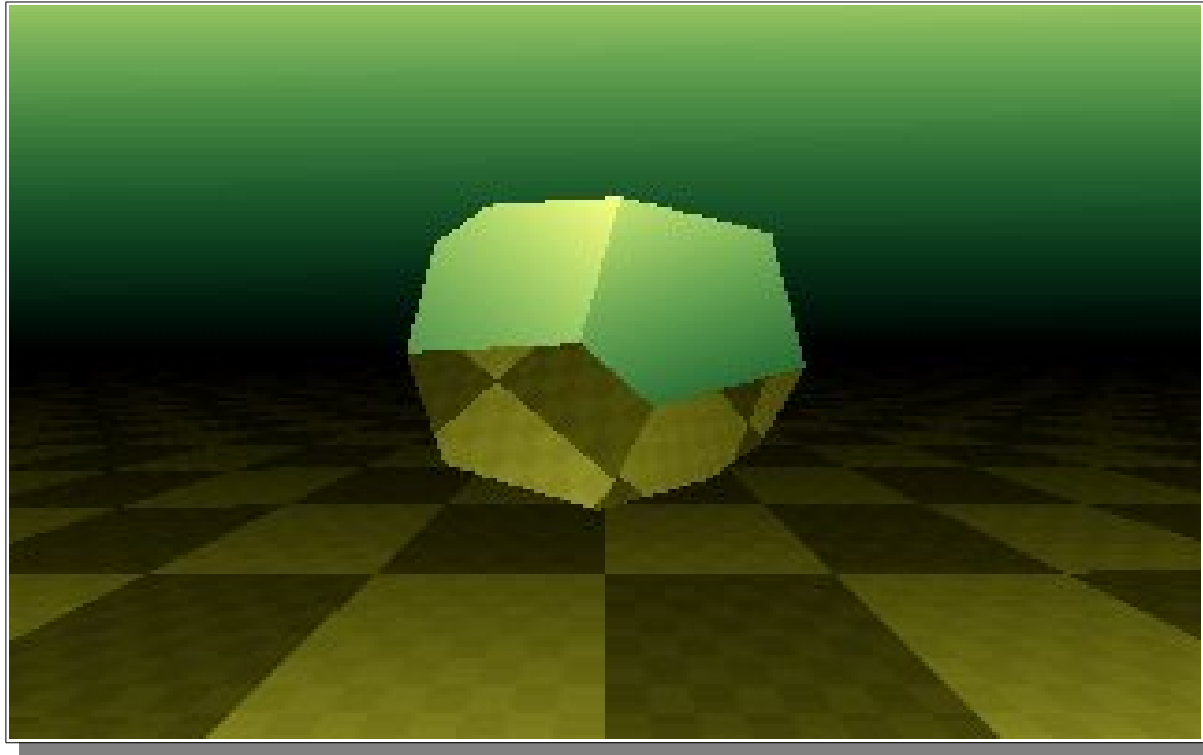


256-byte demoscene: extremely strong competition



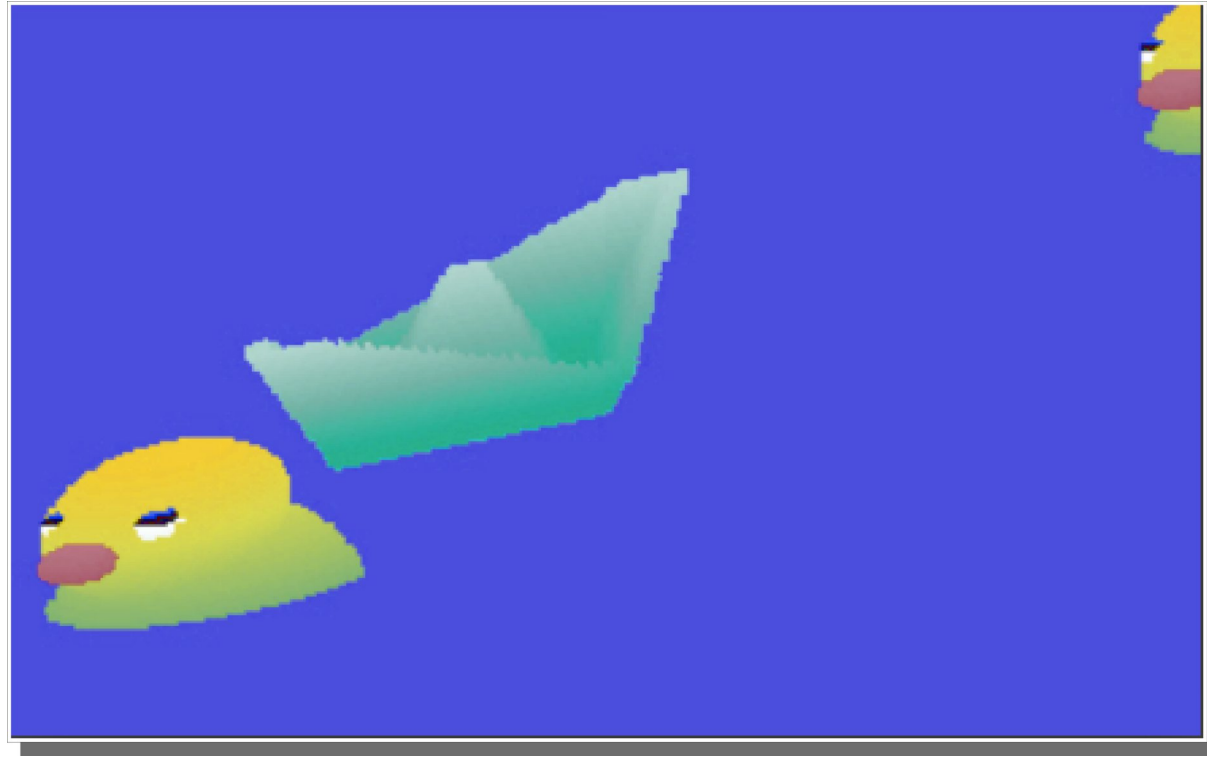
Řrřola: Puls

256-byte demoscene: extremely strong competition



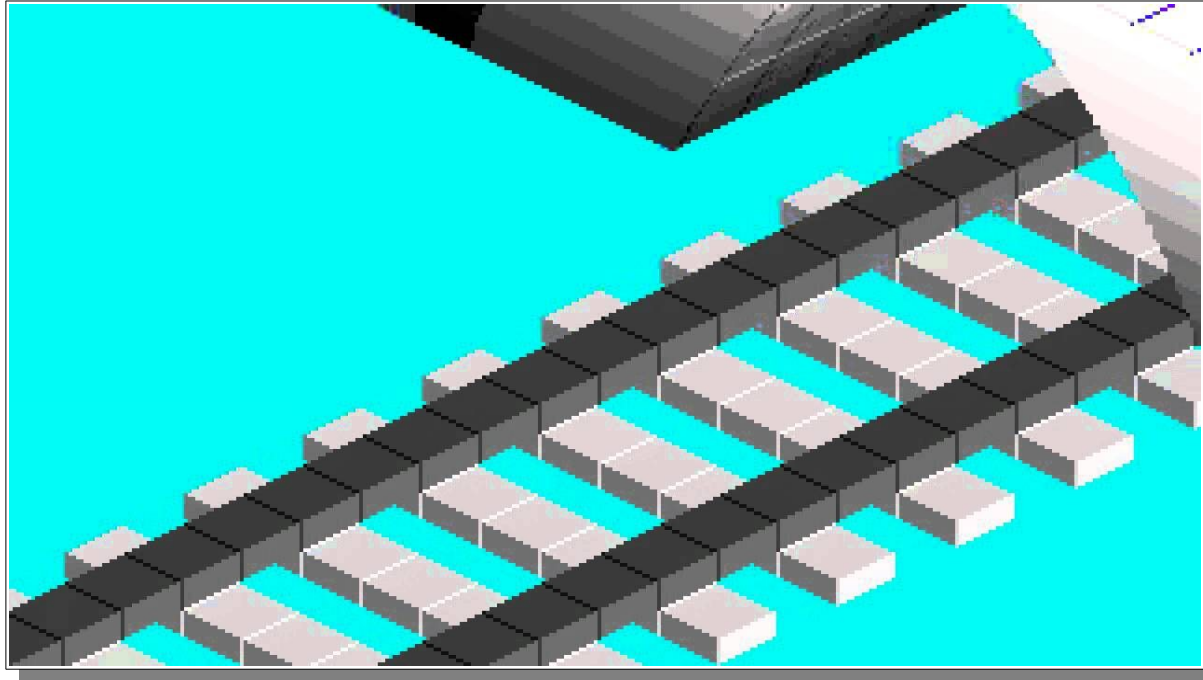
Řrřola: Pyrit

256-byte demoscene: extremely strong competition



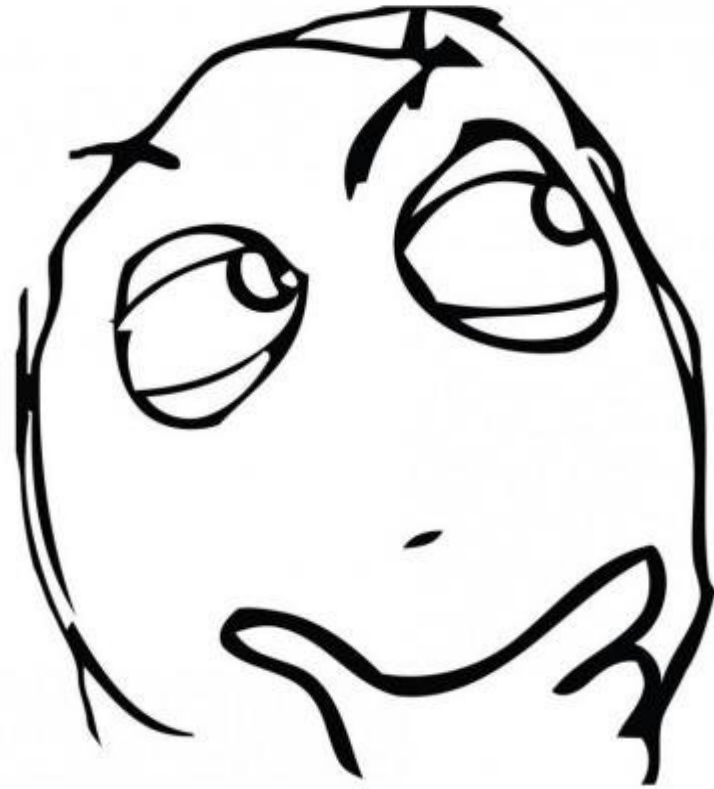
Digimind: Pool Patrol

256-byte demoscene: extremely strong competition



Digimind: Immediate Railways

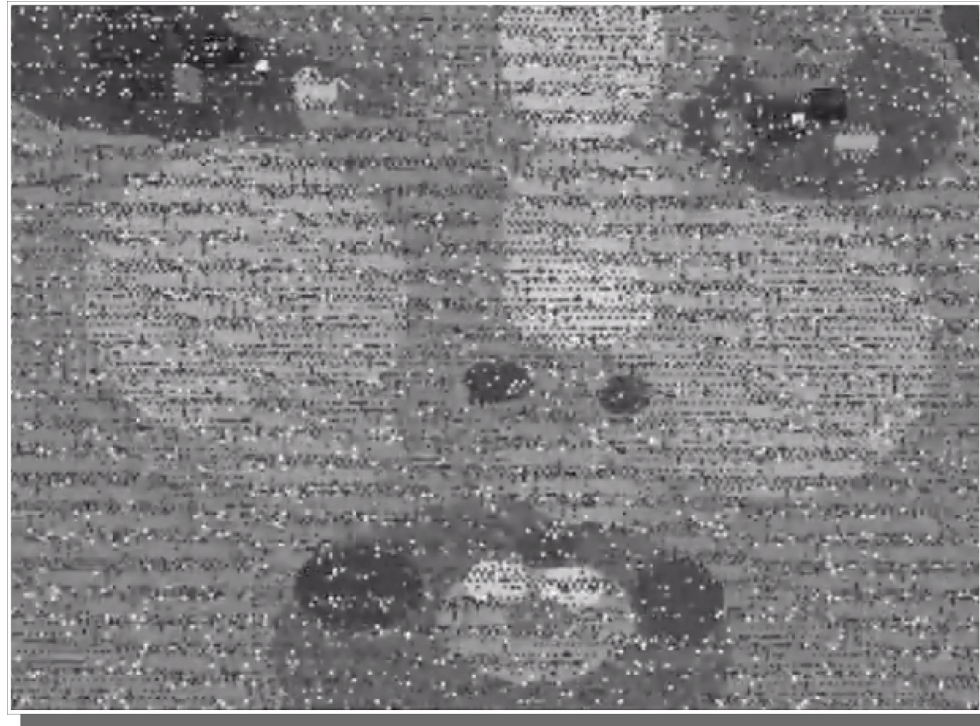
256-byte demoscene: extremely strong competition



How to shine out of crowd?

256-byte demoscene: how to beat competition?

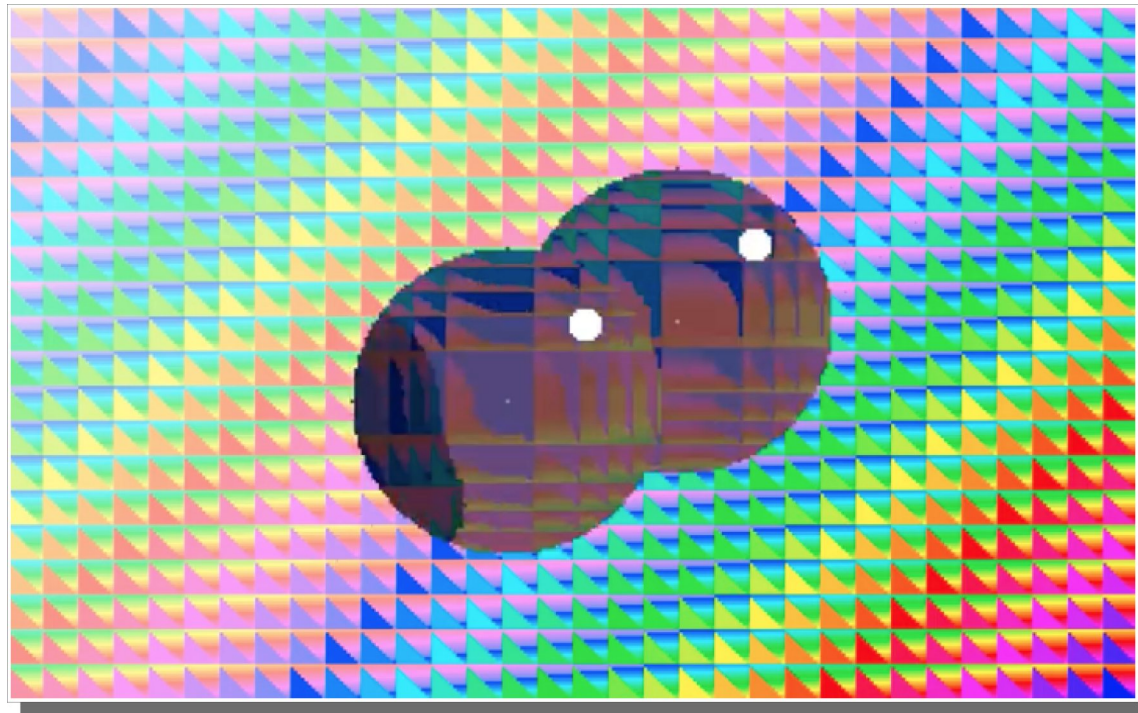
Image processing



TomCat: She – Weak Signal

256-byte demoscene: how to beat competition?

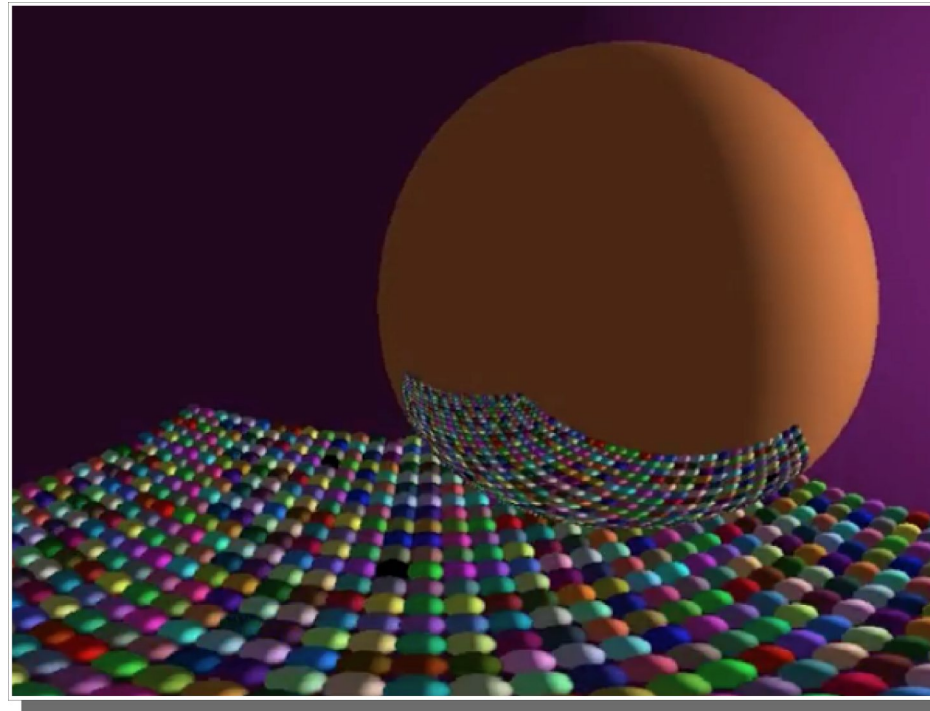
Raytracing



TomCat: Spectrum Rulez!

256-byte demoscene: how to beat competition?

Raytracing

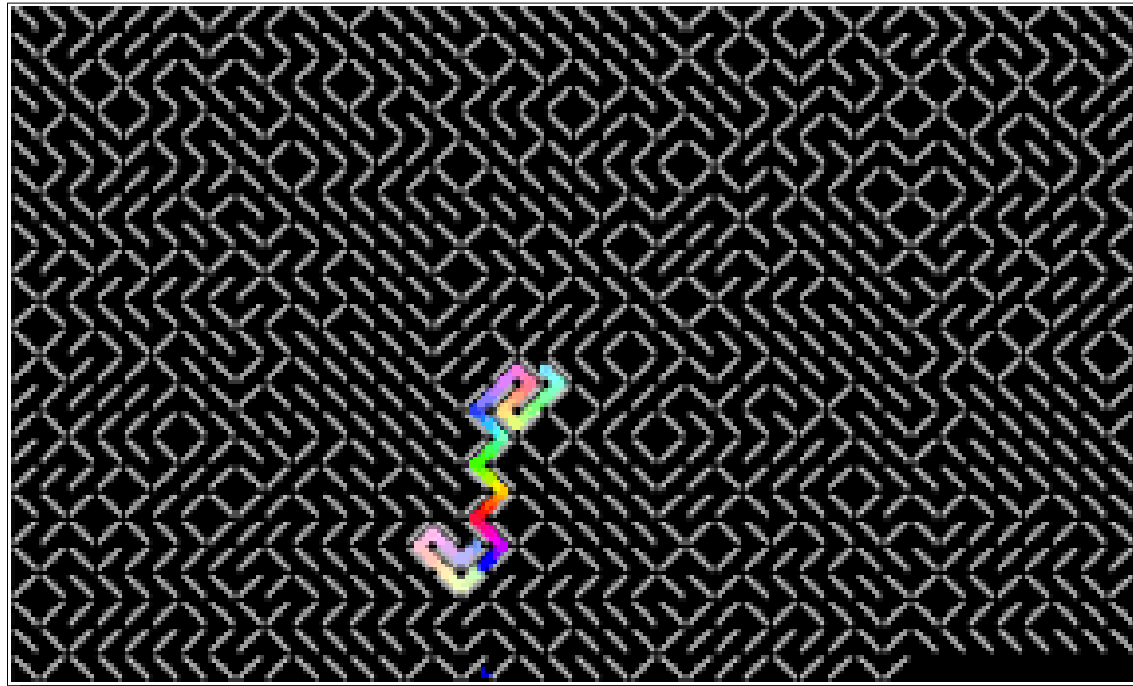


TomCat: Colorful

256-byte demoscene: how to beat competition?

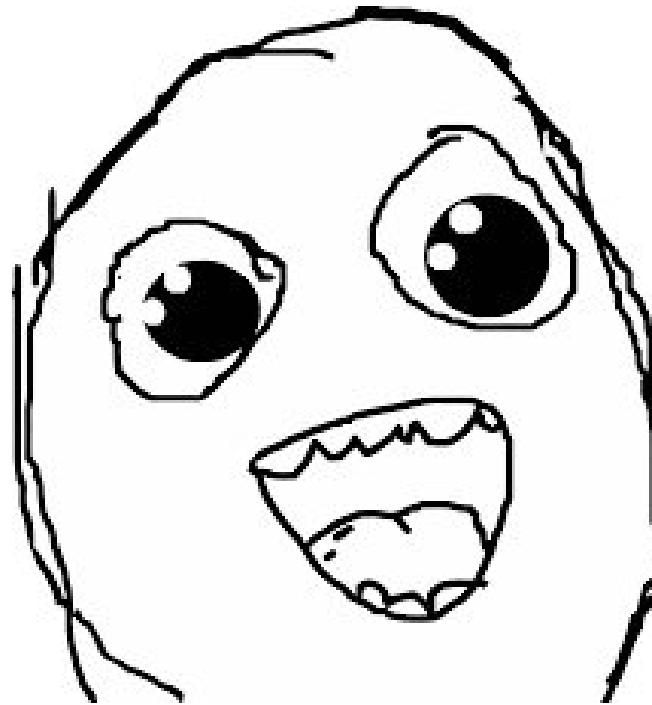
Fun

(if you are not a hardcore sizecoder)



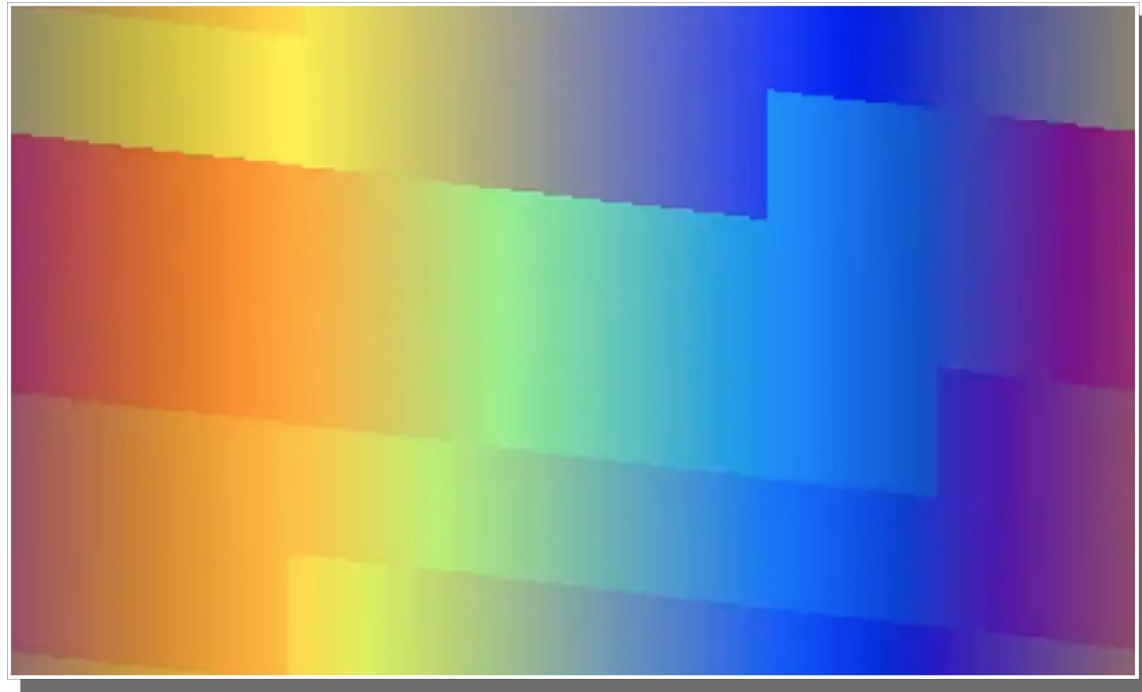
ern0: Maze Solver

256-byte demoscene: how to beat competition?



Music! Add music in 256-byte intros!

256 byte intro with music



TomCat: 2(56)unlimited
(bytebeat music by ern0)

256 byte intro with music



TomCat: No Sleep!
(buzzer music by ern0)

Create universal bytebeat tool

- Bytebeat player & editor
TomCat



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TomCat



- Formula pre-compiler for assembly

ern0



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Bytebeat Editor (TomCat)

...

Assemblyzator (ern0)

Transform bytebeat formula to assembly code...

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Transform bytebeat formula to assembly code
...using a modern C compiler!

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Transform bytebeat formula to assembly code
...using a modern C compiler!

```
int main() {  
  
    int result = 0;  
  
    for (int i = 0; i < 100; i++) {  
        for (int j = 0; j < 100; j++) {  
            result += i * j;  
        }  
    }  
  
    return result;  
}
```

```
b8 e4 e0 75 01  
5c3
```

```
main:  
    mov     eax,0x175e0e4  
    ret
```

Assemblyzator (ern0)

Transform bytebeat formula to assembly code
...using a modern C compiler!

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b8 e4 e0 75 01  
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```

```
main:
```

```
mov     eax,0x175e0e4  
ret
```

Very optimized!
Such compiler!

