Obsessive Compulsive Development: A Postmortem of the Development of Retro/Grade

Matt Gilgenbach Co-founder - 24 Caret Games





About Me

- Heavy Iron Studios 2003-2005 Gameplay Programmer
- High Impact Games 2005-2008 Lead Gameplay Programmer
- 24 Caret Games co-founded in July of 2008
- I suffer from Obsessive Compulsive Disorder as well as depression (+ bonus insomnia)
 - Clinically diagnosed
 - I see a therapist and have been for over 10 years
 - There is no "cure"
 - Therapy helps with gaining tools to deal with it
 - I was dealing with it pretty well before starting 24 Caret Games

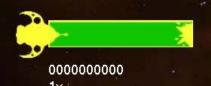
About Retro/Grade

- Released 8/21/2012
- Development time PS3: 4 years
- Development time PC port: 6 months (just me part time)
- Team: Roughly 3
 - Myself Game design & gameplay programming
 - Justin Wilder Engine, effects, and tools
 - Art contractors worked with various people for the first half. Contracted Joe Grabowski full time for the rest of the project
- Hours I worked: On average, around 80 hours/week
- Lines of code: 748,491
 - That is an insane amount for two programmers
 - Little Big Planet had 527,033 with 37 devs (according to gdmag)



In the Beginning...





The IGF Demo (10/31/08)



My Baby

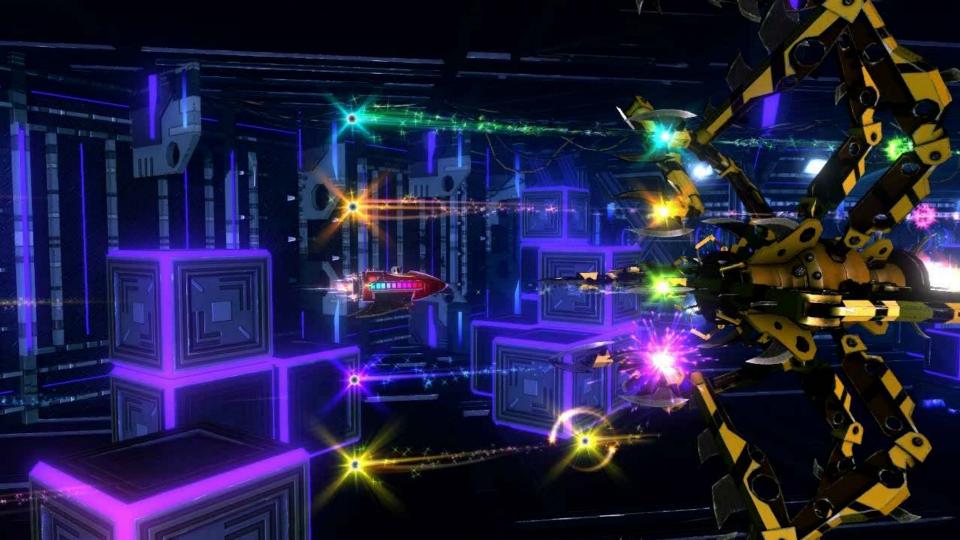


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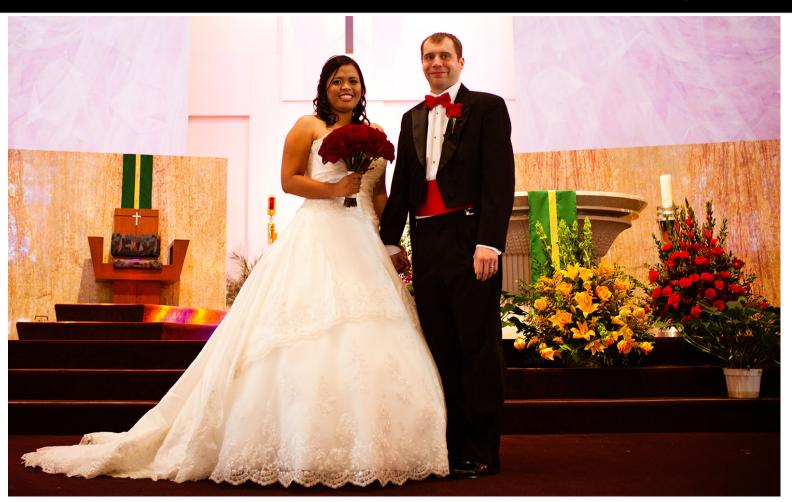






Circular Logic









The Finish

The Best Videogames of 2012

by Jason Dietz, Metacritic Features Editor December 31, 2012 1 12 user comments

J,

Best PS3 Exclusives, 2012



Journey Sony



Dyad Sony



The Unfinished Swan Sony



Retro/Grade 24 Carat



Starhawk Sony





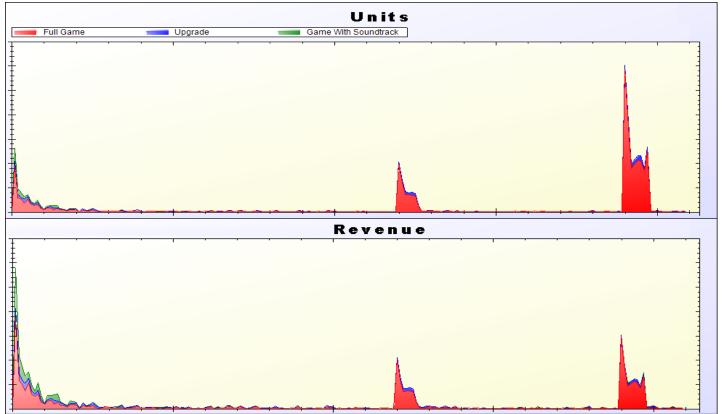
Retro/Grade Final "Features"

- 1080p 60 fps with AA (PS3 first)
- Dynamic lighting and shadows
- PVS generator for object culling
- Background streaming for all data
- Optimized SPU CRN decoder in assembly to reduce load times
- Vertex shader based stateless particle system
- Runtime texture measurement to optimize texture sizes
- Shader preprocessor to create variations
- Brute force shader optimization tools
- Color Grading on the SPU
- Skydome with decal projections and shader

compositing

- Infinite star field with clumping and frustum culling
- Ship based controls for camera path recording
- Complex procedural animation for bosses and characters
- Screen FX Motion blur, distortion mapping, bloom
- HUD/menu design with animated refractive LED particles

Sales



The School Of Hard Knocks

to all who may read these letters, Greetings:

Hereby it is certified that upon recommendation of the College of Indie Games

The Regents of the School of Hard Knocks have conferred upon

Matt Gilgenbach

in recognition of the satisfactory fulfillment of the prescribed requirements the degree of

Indie Game Development

with all the rights, privileges, and honor thereto pertaining here and elsewhere. Dated at Los Angeles, CA, this twenty-first day of August, two thousand and twelve.

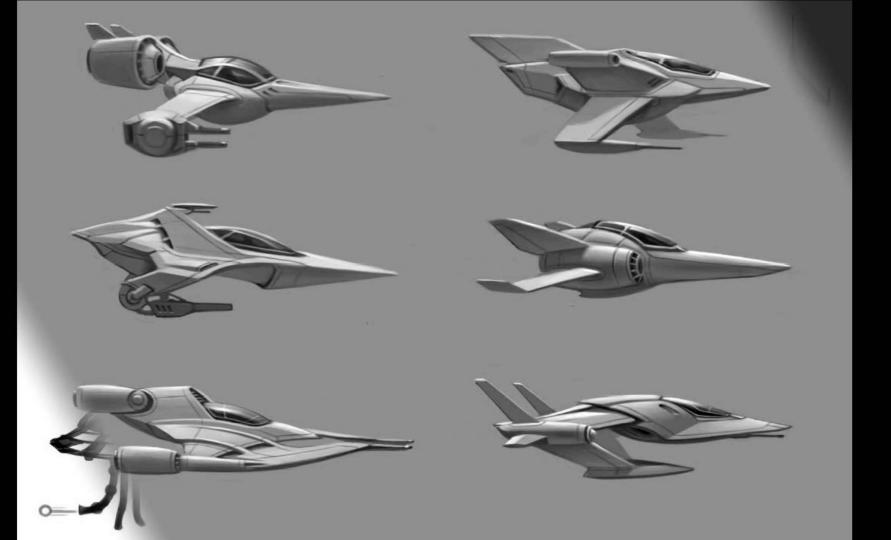


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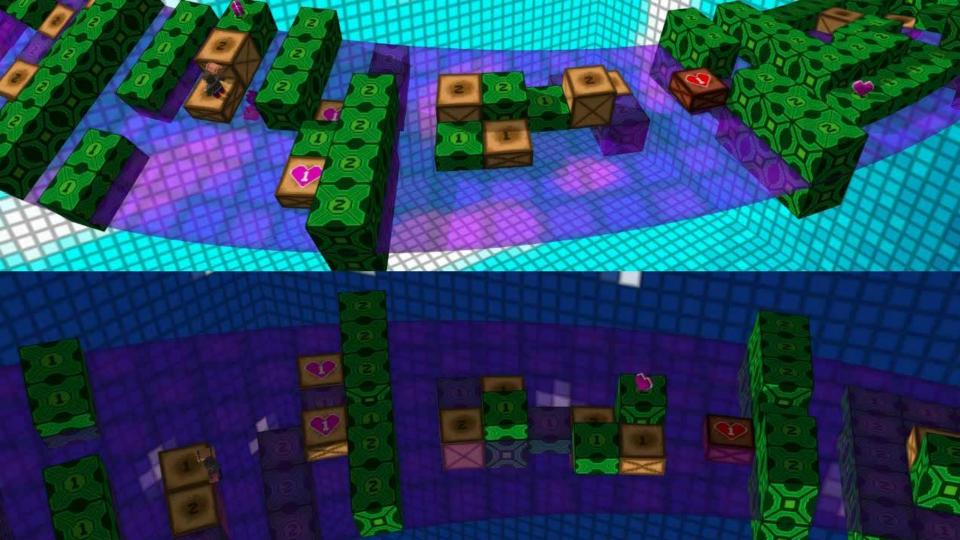






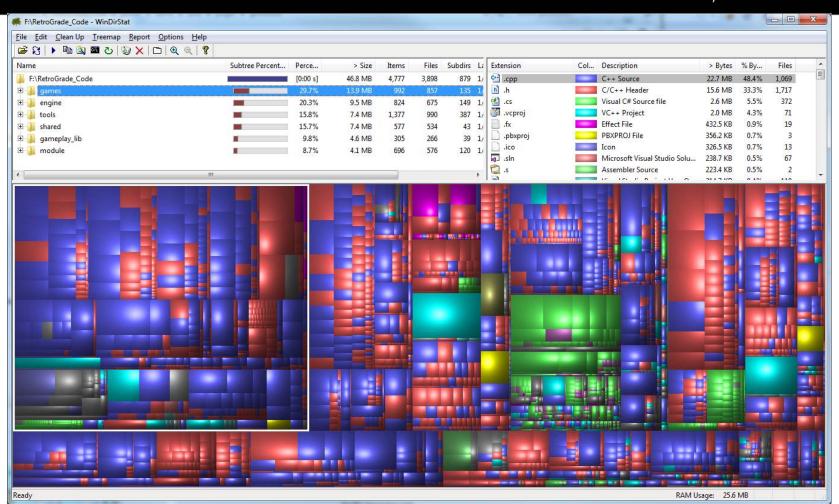






Well, duh!

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What's next?

- Justin Wilder, the other remaining founder of 24 Caret Games, left and got a full time gig
- I'm still trying to find balance in my life
 - I don't want to neglect my responsibilities to my family
- I'm hoping to do another indie game and apply the lessons I've learned
 - I'm not sure I can find the right balance

Thank you for listening!

Any questions?

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