



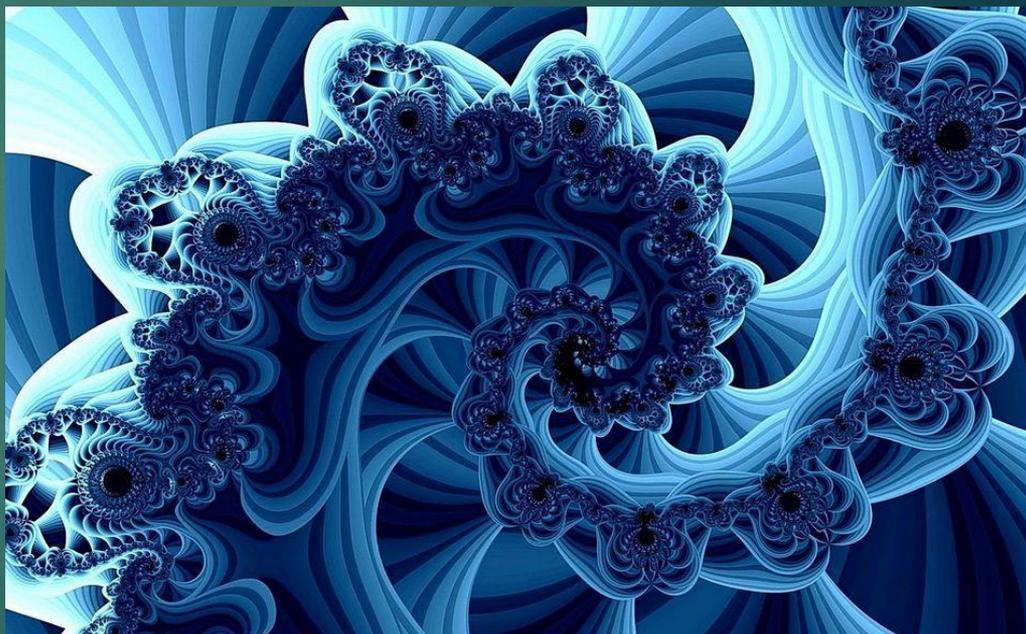
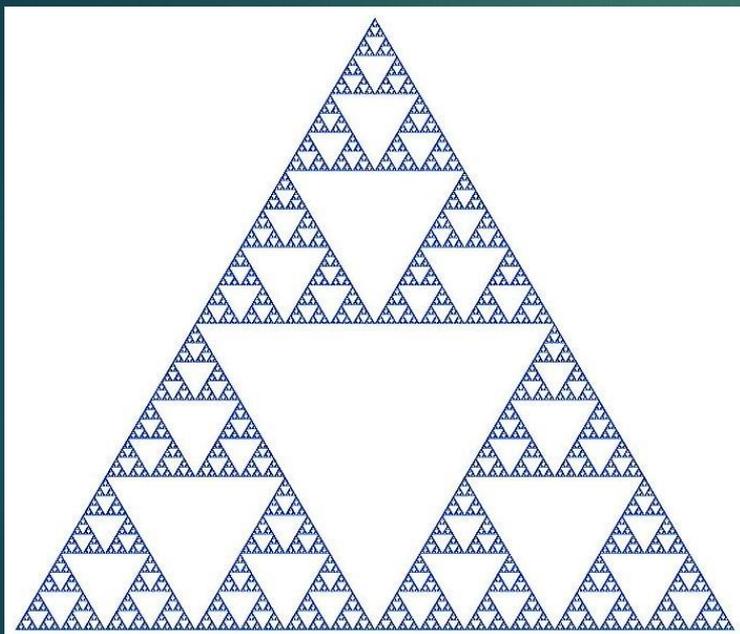
ФРАКТАЛЫ В ВИДЕОИГРАХ

АКИЛОВ М.Е.

РИ-370019

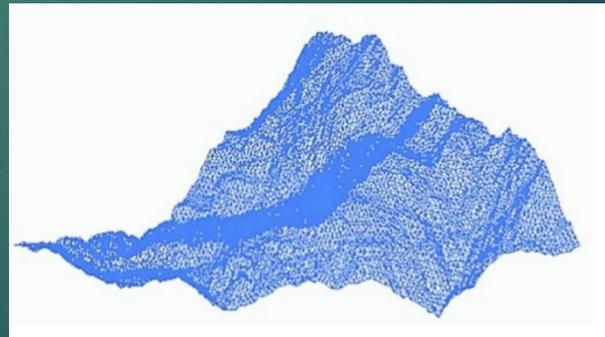
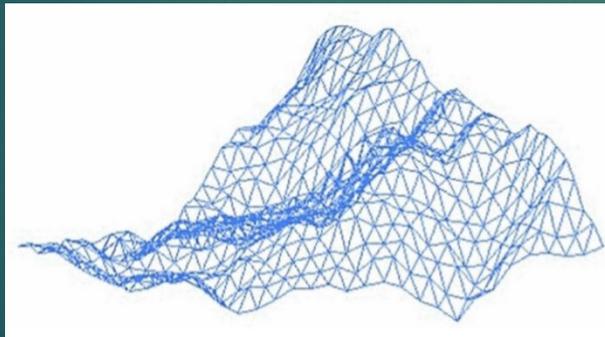
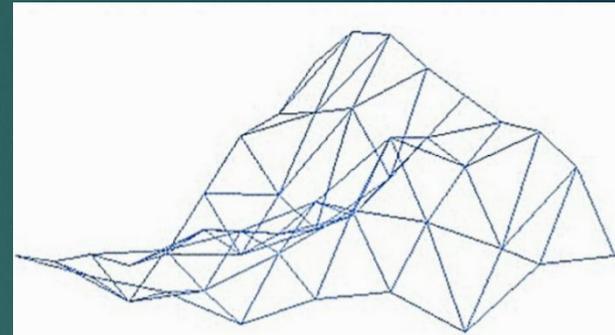
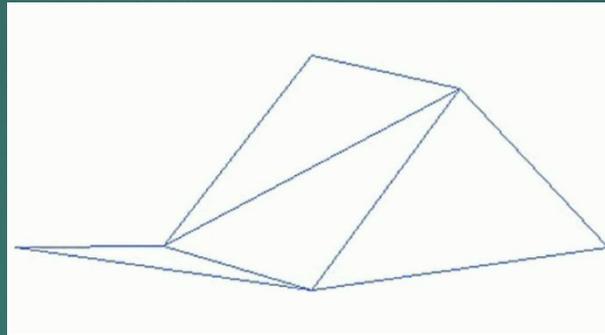
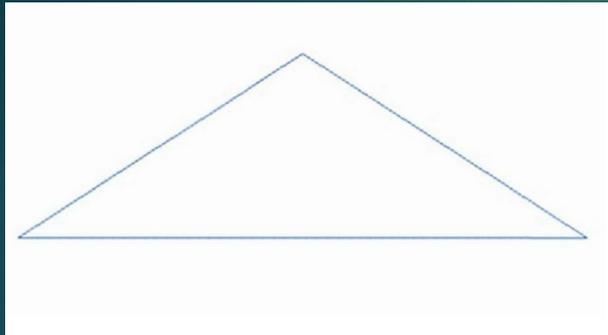
Что такое фрактал?

- ▶ Фигура, которая подобна самой себе при разном масштабе



Как фракталы применяются в видеоиграх?

- ▶ Создание ландшафта



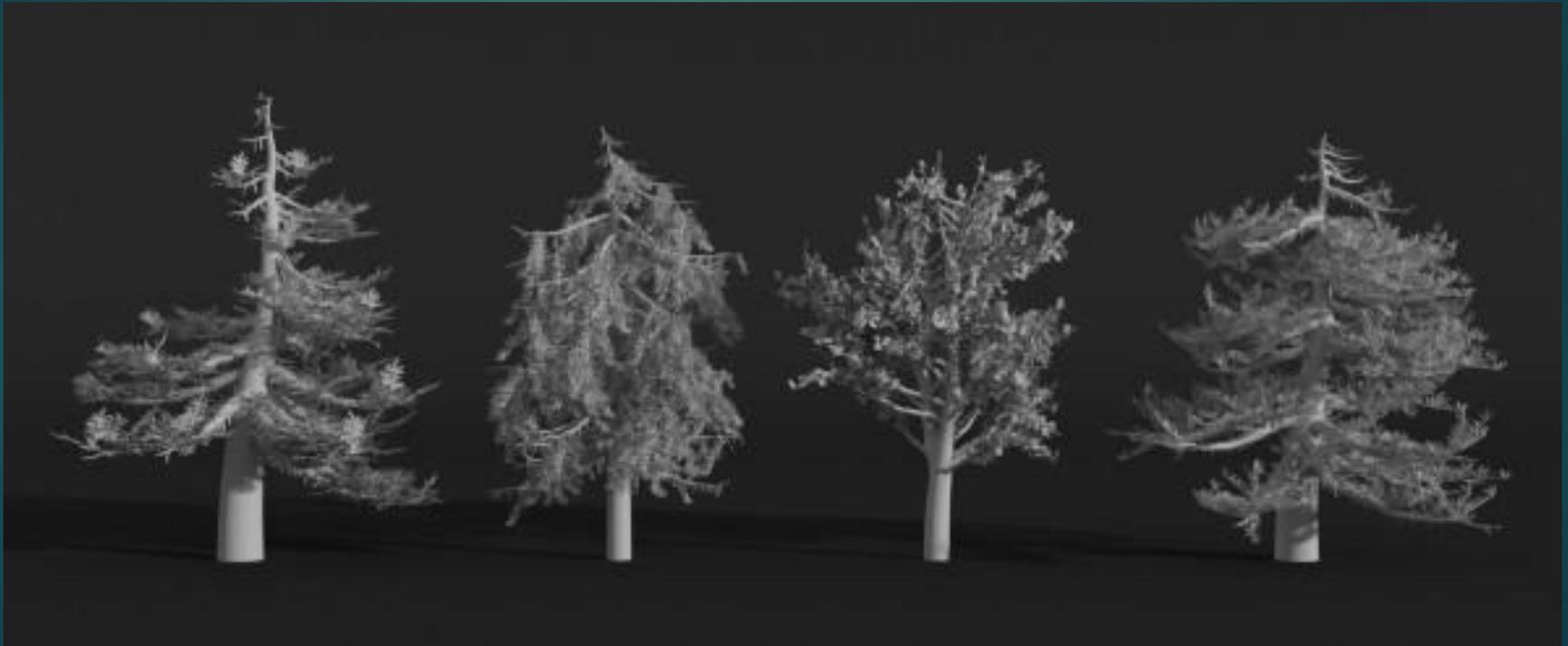
Как фракталы применяются в видеоиграх?

- ▶ Создание пейзажей

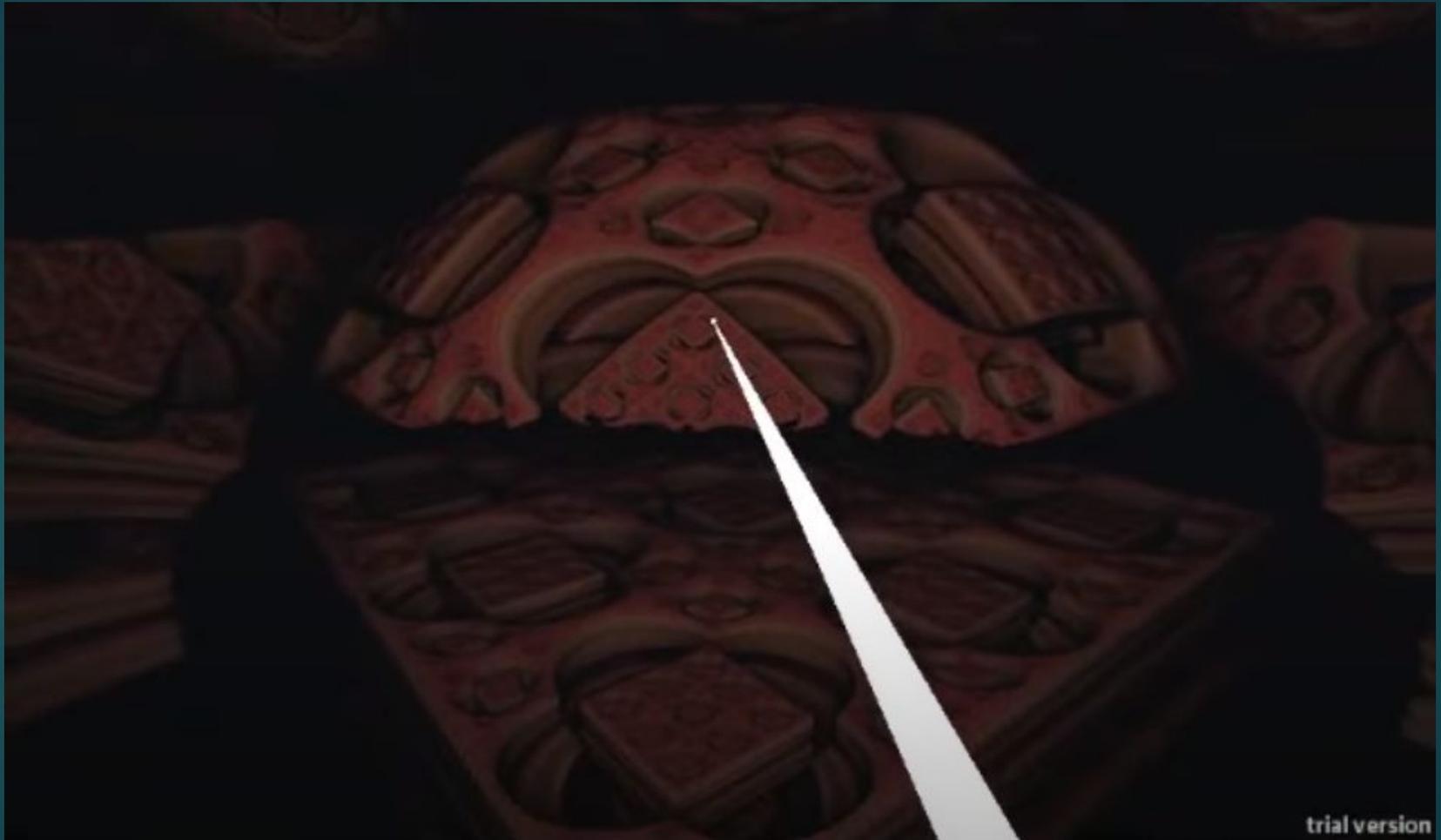


Как фракталы применяются в видеоиграх?

- ▶ Создание деревьев



Fractal Game (2014)



Fractal Game (2014)



Marble Marcher (2019)

Marble
Marcher

Play
Levels
Controls
Screen Saver
Exit

©2019 CodeParade
Music by PettyTheft

60fps



Marble Marcher (2019)

00:23:04



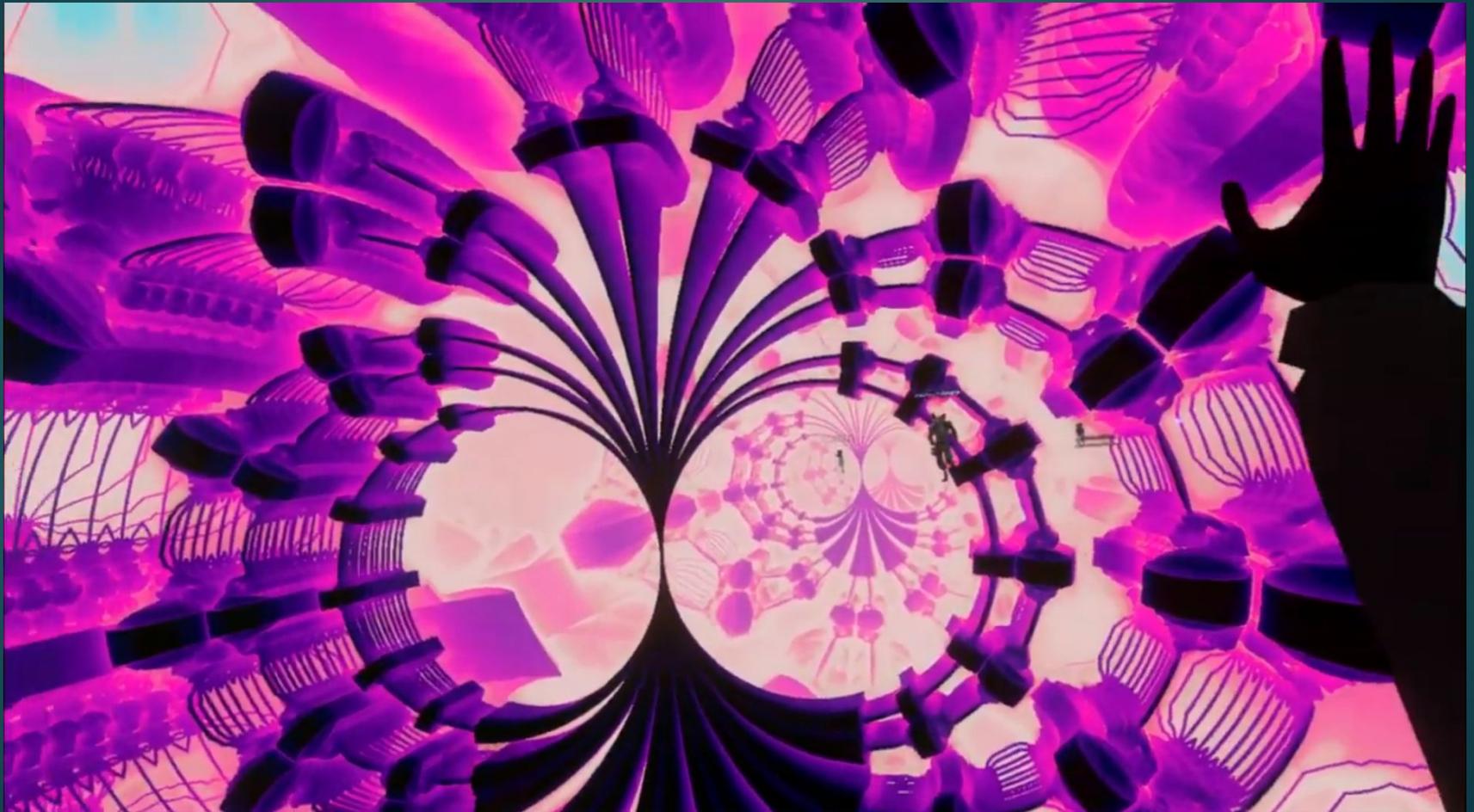
Fractal Alchemist (2020)



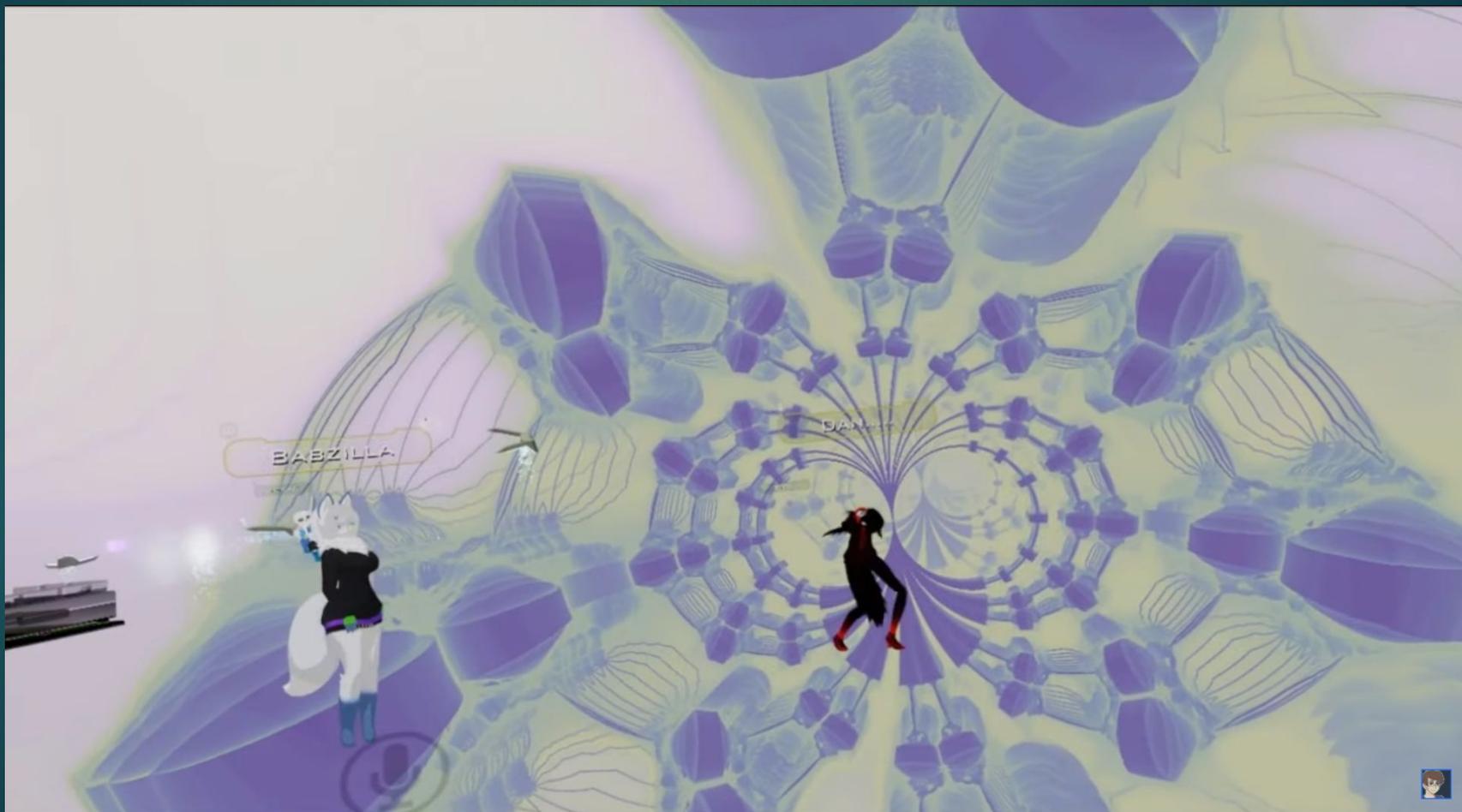
Fractal Alchemist (2020)



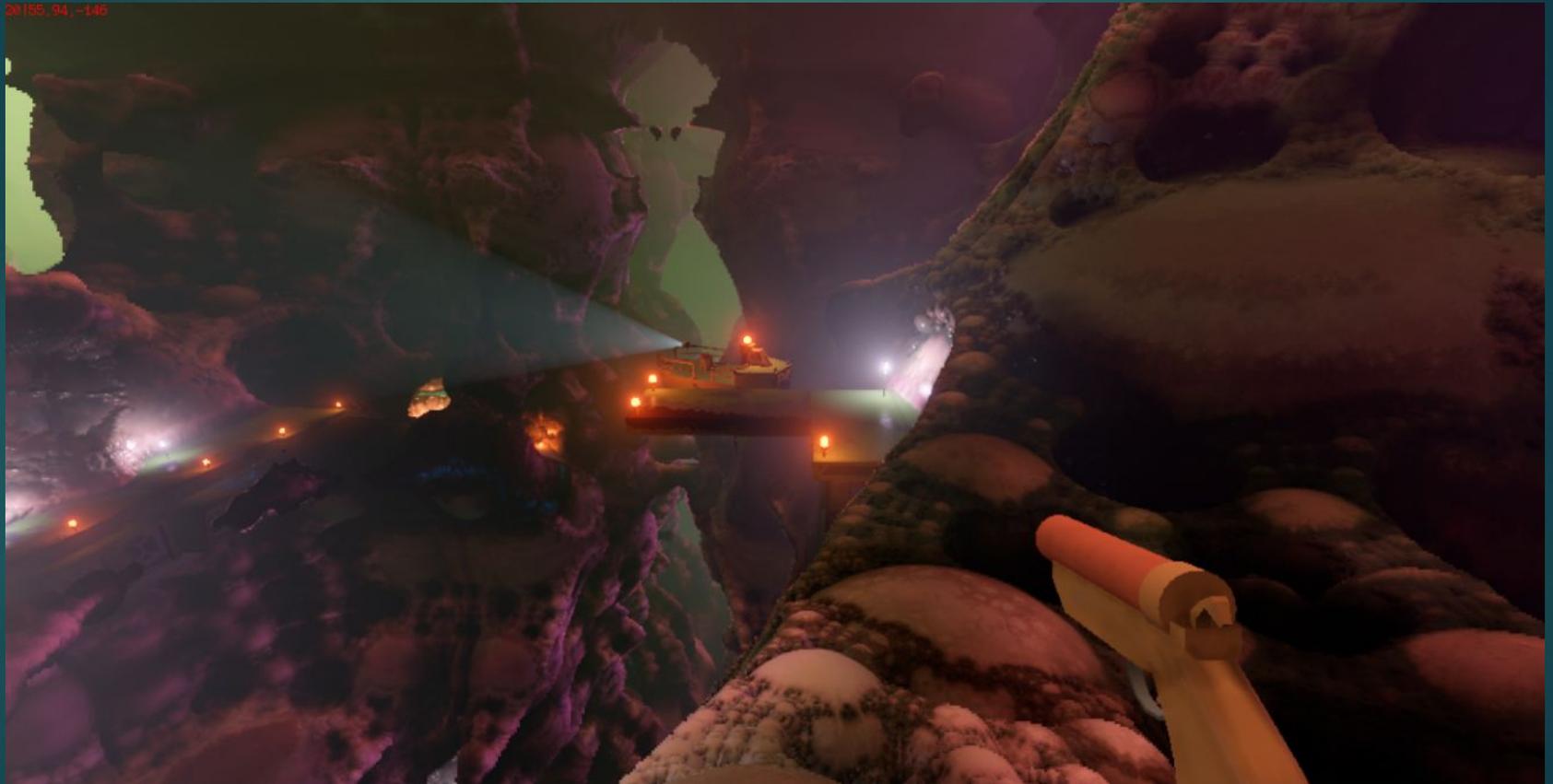
Fractal Explorer (2018)



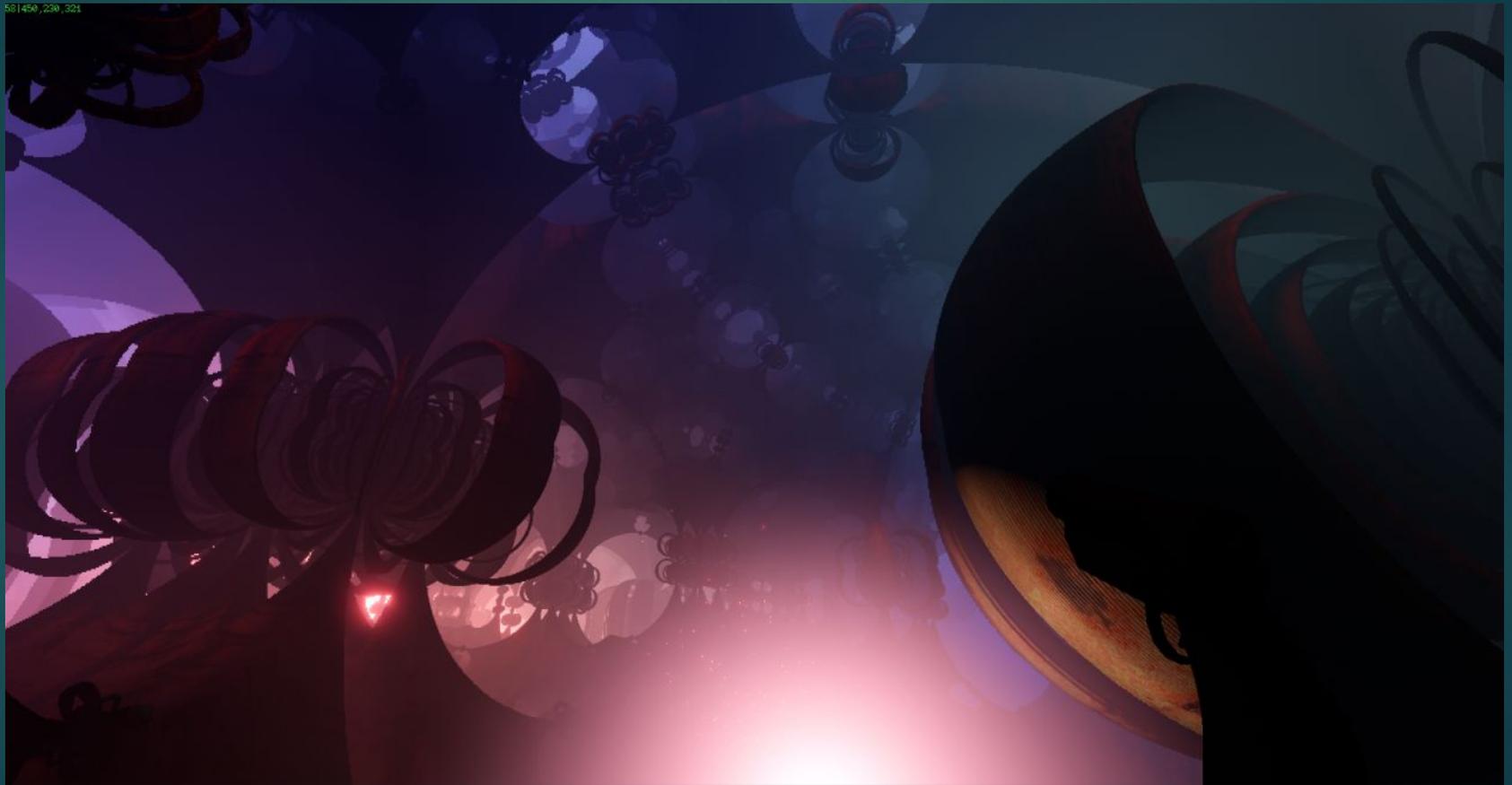
Fractal Explorer (2018)



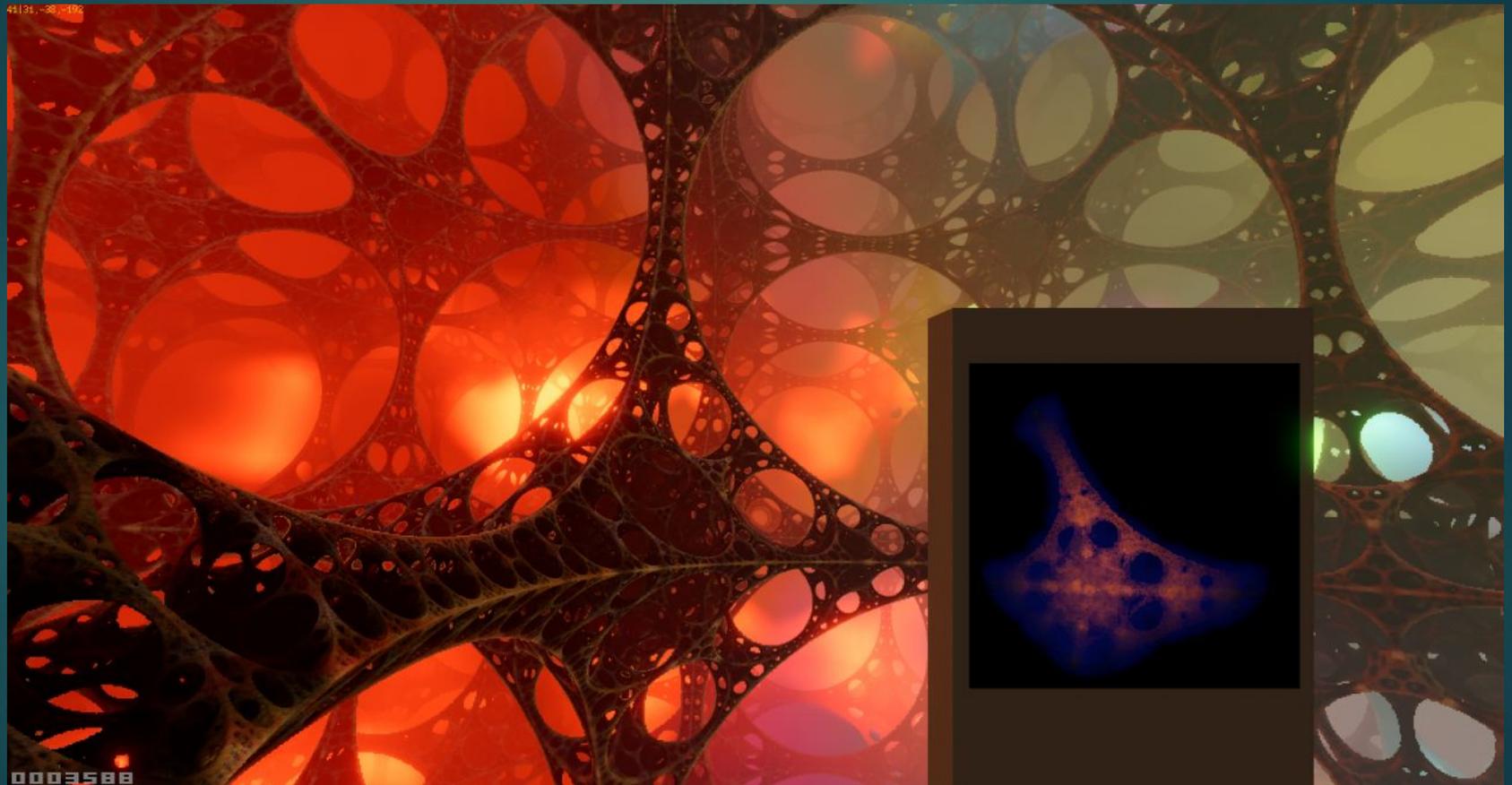
Yedomia Globula (2017)



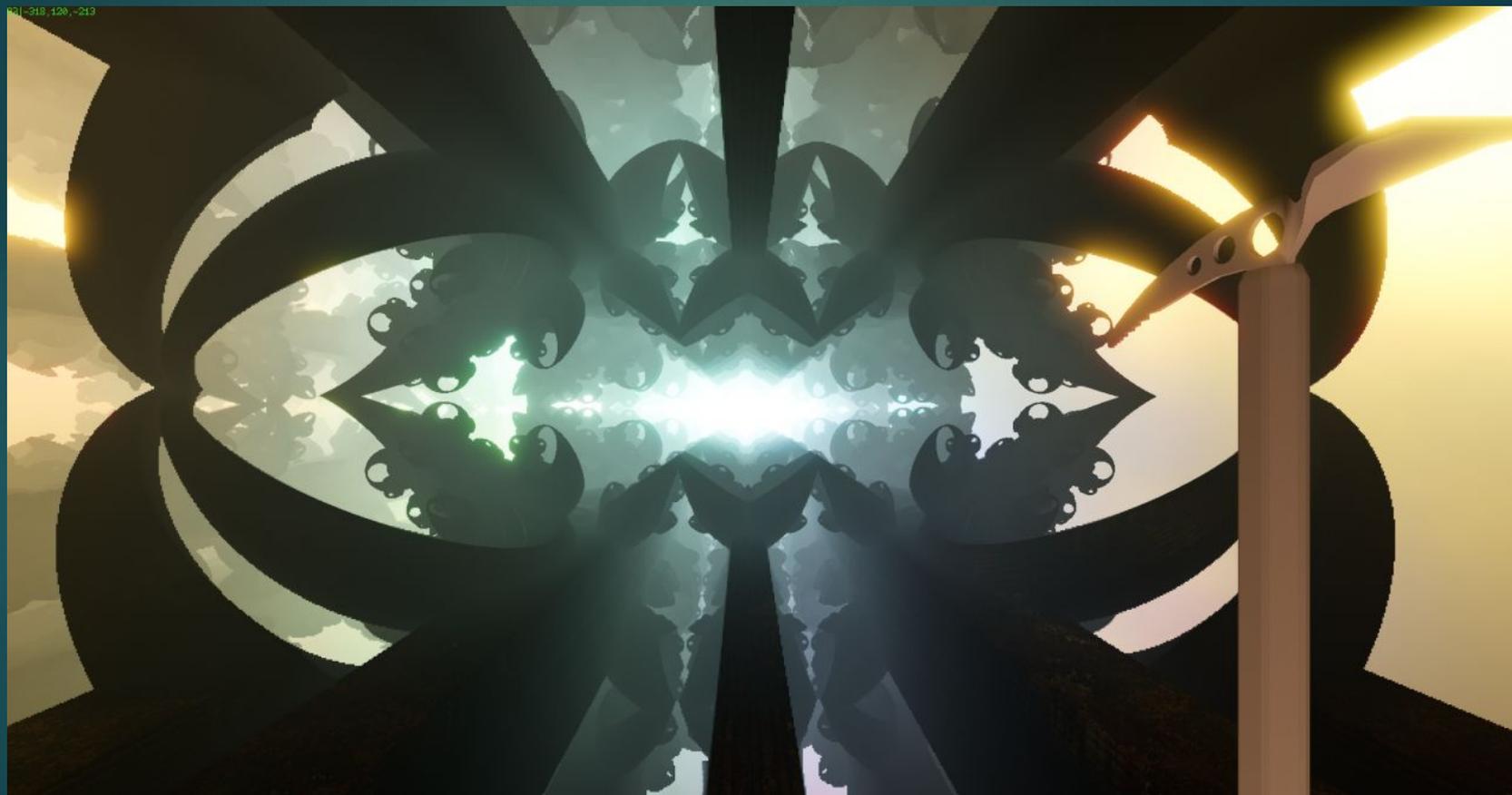
Yedomia Globula (2017)



Yedomia Globula (2017)



Yedomia Globula (2017)





Людография

- Fractal Alchemist (2020)
- Fractal Explorer (2018)
- Fractal Game (2014)
- Marble Marcher (2019)
- Yedomia Globula (2017, in development)

СПИСОК ИСТОЧНИКОВ

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- <https://prezi.com/nwwwuoguafu5o/fractals-in-video-games/> (дата обращения 05.06.2020)
- <https://youtu.be/NelbmaMdk4w> (Fractal Explorer by 1001 in VRChat) (дата обращения 05.06.2020)
- https://youtu.be/IBd26L_MWHQ (Fractal game preview) (дата обращения 05.06.2020)
- https://store.steampowered.com/app/1318030/Fractal_Alchemist_VR/ (дата обращения 05.06.2020)
- <https://codeparade.itch.io/marblemarcher> (дата обращения 05.06.2020)
- <https://bananaft.itch.io/yedomaglobula> (дата обращения 05.06.2020)



Спасибо за внимание!