GODOTCON 2021

Saturday, 23 of January		Timezone:	Greenwich Mean Time
08:45 - 09:00	Welcome		
	Rémi Verschelde		
	Presentation of the new year for Godot and Welcome to the assistants at GodotCon 2021		
09:00 - 09:30	WebXR in Godot		
	Tech		
	David Snopek		
	WebXR is an open standard that allows creating VR and AR		
	applications that run in the web browser. This can be a useful tool for getting your games or apps into "walled gardens" (like the Oculus Quest) or sharing VR and AR experiences with any device without		
	requiring the user to download or install anything. And now you can make WebXR apps and games with Godot!		
09:30 - 10:00	(Almost) A Year of Fam Jams		
	Community		
	Paul Gestwicki		
	I am a Computer Science Professor who teaches game design and		
	development, but more importantly, I am a husband and a father of four boys aged 13, 10, 8, and 5. When the global pandemic forced the		
	first round of lockdowns in March 2020, I tried to think of something		
	fun and creative that my family and I could do together. We decided to do a "Fam Jam": we set aside one Saturday for a family game jam.		
	We used Godot Engine along with other FOSS tools. This became a		
	monthly tradition.		
	In this presentation, I will talk about our jam structure and what we learned along the way. There have been some tensions and disagreements, but I am proud of how we overcame them. Now, we		
	have a much smoother process for working together.		
10:00 - 10:30	Visualizing Austria in Godot		
	Non-Game projects		
	Karl Bittner & Mathias Baumgartinger		
	As there is an increasing need for realistic large-scale landscape		
	visualisations in order to involve a broad public in social issues such a landscape and climate change or the expansion of renewable energy		
	we use the Godot Engine for a cross-project geospatial landscape		
	visualization named LandscapeLab: The LandscapeLab uses different kinds of geodata (raster and vectordata) from geographical open dat		
	sources to generate real-time 3D landscape renderings for workshop		
	environments and VR headsets using Godot. To bridge the gap between the gaming and the geodata world, we developed a		
	GDNative addon named Geodot, for geodata loading and processing		
	Geodata is an important resource not just for research, but also for		
	games - most recently, Microsoft's Flight Simulator 2020 inspired a		
	wide interest in the gaming sector. Our Geodot demonstration will show how geodata can be used in Godot and how the loading and		
	processing of the data works in the background.		
10:30 - 11:00	Authoritative Multiplayer with Godot		
	Tech		
	Stefan_Gamedev		
	In this presentation, we are going to see high-level overview of		
	authoritative multiplayer. What elements a back-end consists of, the considerations that go into the design of said back-end, and how Godot can be used for such a back-end.		

11:00 - 11:30	Teaching Codot Engine: Learning Experience Design Community Teaching Castón Caminiti During 2020, in GTC IEEE Argentina, we carried out a series of educational initiatives with Godot Engine. In this presentation, we would like to share our experience by presenting criteria on the construction of teaching proposals with the engine and the aspects of Godot that contribute to both learning and research in video games, and how can this be included in a formal curriculum. Presentation in Spanish with English subtitles.
11:30 - 12:00	Wwise Godot Integration: integrating audio middleware into Godot Audio Tech Alessandro Famà & Jorge Garcia This talk presents the process of integrating a popular audio middleware (Audiokinetic's Wwise) into Godot. Wwise is widely used in the game industry for various types of game projects, from AAA to game jams. An overview of the middleware will be provided, as well as details of the GDNative plugins. The talk will include short demos to demonstrate various features of the integration. These will cover the installation process, the use of custom nodes to play sound effects, callbacks, Visual Script and the WAAPI picker.
12:00 - 13:00	Flash Talks In this section, we will see some shorter talks about a variety of topics. Some games with interesting features, and some technical tools and news.
	The Garden Path Community flash talk Came Louis Durrant The Garden Path' is an upcoming sandbox game built in the Godot Engine. It's creator, Louis Durrant, will discuss working in the engine, philosophies and inspiration for the game's design, as well as present a live demo of the game with commentary.
	Godex: An ECS for Godot Community flash talk Tech Andrea Catania In this presentation, we will see a short introduction on the ECS design pattern, what it is and how it works, it's advantages and disadvantages. Then we will also see a short demo on using ECS in godot with Godex.
	Dialog system in visual novel Hauma Community flash talk Game Senad Hrnjadovic Hauma is a coming visual novel that features multiple choice dialogues, full voice acting, cut scenes In this talk we will see how the dialog system was set up.
	The new rendering of Godot 4.0 Keynote Main Juan Linietsky (Reduz) Juan is going to talk about the coming rendering features of Godot 4.0.

13:00 - 13:30	Godot editor on the Web. What's new, tricks, need-to- know Tech
	Fabio Alessandreli Let's see an overview of the new in-browser version of Godot. How does it work, what are some tricks
13:30 - 14:00	Interacting with the Internet of things for pleasure and profit.
	Non-Came projects Julian Todd Many home automation devices like smart plugs and indoor air quality sensors work with MQTT. This protocol is simple enough to implement in GDScript as well as very cheap ESP8266 wifi enabled microcontrollers running Micropython. This talk will give an overview of the tool-chain as well as how to apply it to games interacting with the real world and distributed robotics.
14:00 - 14:30	Community Luke Dary Red Hat Summit often includes amazing technical demos built on open source technology. The past two years have included applications created in Godot to add dynamic and interactive visualizations. This talk will show how Godot usage at Red Hat has grown in the last two years, our experiences with it for things other than gaming, and how to use it more in an enterprise context.
14:30 - 15:00	Shader shenanigans Technical Art Paweł Fertyk Shaders are magic! In this coding session I'll show and explain some effects you can create using shaders in Codot Engine. Examples include a UV light, a 3D object outline, and a portal.
15:00 - 15:30	Community Kati Baker This talk will share the story of the Godot Wild Jam (GWJ), why it was created, how it has grown, and its future goals. We'll discuss how to start a community and the pillars in maintaining and moderating GWJ. We'll also be highlighting developers who have continued their own work post-GWJ after getting their start with us.
15:30 - 16:00	Extending the 2D Renderer: Adding 3D-Like Shadowing Tech Pedro J. Estébanez

Hellrule', despite being a 2D game, features 3D-like graphics and lighting. The current support for 2D shadows in Godot 3 was not enough for what was needed for this game. Therefore, the 2D renderer was extended to support two different kinds of shadows: one kind being similar to AO (Ambient Occlusion), applied to the background tiles, and the other one being a sort of faked shadows casted over the foreground tiles. Both react in real time, occluding the explicit light sources so only the ambient light reaches the surfaces, and both also feature soft edges.

This talk will explore how the renderer was extended to implement these features and also explain how these shadowing techniques themselves work.

16:00 - 16:30

Thank You!