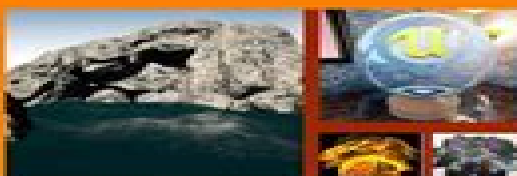




Modélisation, **Blueprints**, Matériaux & Paysages



Versions 4.7+

Les cahiers du développeur **Unreal Engine**



Editions
Graciel

Tome 1

Cahiers Dunreal Engine Unreal Graphics

Ryan Shah



Cahiers Unreal Engine Unreal Graphics:

Les Cahiers d'Unreal Engine Grégory Gossellin de Bénicourt, 2020-01-08 Ce 4ⁱ me tome n'est pas entièrement dédié au jeu vidéo mais il contient de nombreuses références ce domaine. Mais il nous paraît important de rappeler qu'Unreal Engine n'est pas seulement un outil pour créer des jeux vidéo, il est tellement plus que cela. La première partie est orientée vers la maîtrise de l'Unreal Motion Graphics UMG qui est le nouveau système d'Unreal Engine pour créer des interfaces utilisateurs du HUD, la création de menus en passant par les composants de type widgets 3D. Vous apprendrez à utiliser le Widget Designer, un outil puissant pour créer des interfaces : chaque type de widget sera examiné à la loupe, ainsi que la programmation Blueprint correspondante. Nous vous montrerons également comment utiliser le système d'animation des widgets très proche de Matinee que vous connaissez déjà. La seconde partie se concentre sur la gestion de l'audio : les musiques, les sons et les voix. Vous verrez comment intégrer des sons 8 pistes de type 7.1 ou utiliser n'importe quel autre son dans une scène 3D en gérant son atténuation, la réverbération du milieu, etc. Les termes techniques comme Sound Wave, Sound Cue, Sound Class ou encore Sound Mix n'auront plus de secret pour vous. La lecture des 3 premiers tomes est un plus car il y a de nombreuses notions que nous avons abordées dans ces derniers et sur lesquelles nous ne reviendrons pas dans ce tome. Ce 4ⁱ me tome est le premier d'une nouvelle série attaquant Unreal Engine sous un angle plus spécialisé. Nous avons essayé de vous fournir une information la plus complète possible même si la documentation officielle faisait défaut : vous permettrait de maîtriser les arcanes des interfaces utilisateurs et de l'audio sous Unreal Engine.

Les cahiers d'Unreal Engine T1 Grégory Gossellin De Bénicourt, 2015-04-01

Présentation de la collection Unreal Engine est probablement l'un des moteurs de jeu les plus aboutis de notre époque. Il est accompagné d'un dictionnaire la fois simple et puissant qui le rend accessible à un public non développeur : artistes, architectes, ingénieurs, étudiants. À l'origine orientée vers les grosses productions de jeux vidéo, il s'est doté dernièrement d'un nouveau système de licence très attractif : il est désormais gratuit, l'utilisation seules 5% de royalties sont demandées sur les jeux et applications développés avec le moteur. Les projets que l'on peut développer dépassent de loin le secteur du jeu : présentations interactives, temps réel cinématiques, l'où il y a une histoire à raconter, un produit ou un concept à présenter, un appartement à faire visiter sur Internet, voir un concert Next Gen dans un univers virtuel en utilisant un casque de réalité virtuelle. Avec Unreal Engine on peut exporter sa création vers Windows, Linux, Steam OS, OSX, Android, iOS, XBOX One, Playstation 4, Oculus Rift et même directement vers le web en HTML5, WebGL. Unreal Engine possède une documentation abondante, voire impressionnante. De très nombreux sujets y sont traités, mais cette pléthore d'informations rend aussi la découverte de l'outil très difficile, tant la couverture fonctionnelle du produit semble interminable. Et quand on se penche sur un thème précis, on se retrouve inévitablement en manque d'informations, ce qui peut paraître paradoxal. Ce que nous vous proposons est une approche parallèle : cela, un ensemble de plusieurs cahiers qui vous guideront dans la création de tel ou tel type de jeu sans avoir la prétention de se substituer au manuel officiel. Au-delà de la création des jeux, nous explorerons en détail tel ou tel aspect de l'outil en faisant

un point complet sur la question comme la création de cinématiques les cutscenes ou la gestion des effets spéciaux. Chaque cahier peut être lu individuellement et selon vos besoins. Contenu de ce cahier : Dans ce premier tome nous allons vous aider faire vos premiers pas sous le drapeau en créant votre premier jeu sous Unreal Engine. Au sommaire : les fonctions de modélisation de l'éditeur, la création de composants, la programmation Blueprints, l'éditeur de cinématique, Matinee, la création de matériaux, les textures, les normal maps, la transparence et les masques, les matériaux missifs, les matériaux animés et dynamiques, les déplacements via le World Displacement, les Subsurface colors, la réflexion, les fonctions de matériaux, les instances, etc. la modélisation de paysages et l'outil foliage. Pour terminer nous intégrerons un personnage au paysage avatar que nous pourrions contrôler pour explorer le paysage que nous venons de créer et explorer le bâtiment que nous avons construit.

Les Cahiers d'Unreal Engine Grégory Gosselin de Bénicourt, 2021-02-02

L'ajout de fonctionnalités à un jeu ou une application est essentiellement quelque chose de stimulant. Quand on pense cette fonctionnalité pour un jeu vidéo on sait tout de suite de quoi il s'agit : le multijoueurs en ligne. Toutefois on ne pense pas assez aux autres possibilités dans le domaine de l'enseignement, de l'industriel, du marketing, voire du militaire pour pouvoir travailler ou expérimenter plusieurs univers, même procédés, même simulation. Dernièrement je travaillais sur une combinaison de réalité virtuelle permettant littéralement de voir son corps en virtuel et surtout de pouvoir se déplacer, saisir des objets virtuels, etc. C'est d'abord fascinant en soi. Mais lorsque vous enfilez la combinaison qu'un autre gars fait de même l'autre bout de la planète et que vous vous dirigez vers lui pour une première poignée de mains, c'est une sensation indescriptible. On dit qu'un rendez-vous partagé par plusieurs personnes est d'abord une forme de réalité. Tout cela n'aurait pu être possible sans l'aspect réseau justement. Maintenant imaginez : Un chirurgien dirige son opération en pilotant un robot sur un autre continent. Ou encore un participant à une conférence dans une immense salle virtuelle avec des personnes de tout pays réparties dans toute la pièce. Ou bien la visite d'un appartement par un prospect étranger accompagné de l'agent immobilier sans qu'aucun des deux n'ait besoin de se déplacer. Autre exemple : un médecin en ligne va montrer son client comment changer les durites de son véhicule, les possibilités sont infinies. Unreal Engine 4 est un outil fabuleux et lorsqu'on maîtrise ses capacités, le réseau c'est une porte ouverte vers un océan de possibilités. Lorsque j'ai commencé à rédiger ce tome je connaissais l'attente de certains disposer d'un framework clé en main simple à maîtriser et faire évoluer. C'est donc en partie l'objet de ce livre. Mais au-delà de cela je voulais également que vous compreniez toutes les subtilités du développement réseau. C'est probablement un vœu pieux mais j'espère au moins pouvoir vous fournir toutes les bases nécessaires pour que vous empruntiez par vous-même le chemin du multijoueurs ou de l'application réseau. Car si cela est vrai dans de nombreux domaines, c'est encore plus vrai dans notre cas : c'est en forgeant qu'on devient forgeron. Comme je souhaite vous éviter ces longscueils, je vais passer par une approche somme toute personnelle qui consiste ne pas de finir les grandes notions de la réflexion sous UE4 mais vous les rendre tangibles au travers d'exemples simples et progressifs. Faisons un tour d'horizon rapide de ce que nous allons voir ensemble. Tout d'abord nous allons commencer par un exemple très simple qui vous montre qu'en 5 minutes vous pouvez créer

er un jeu et y connecter plusieurs joueurs via d'autres postes C est un exemple trompeur car tout semble très simple mais c'est aussi que le travail est vraiment m ch Cela a au moins le mérite de vous mettre directement dans le bain d'puiser une partie de votre curiosité afin que vous puissiez focaliser votre attention sur la suite Car il y a beaucoup de concepts à comprendre et un peu de savoirs faire accumuler avant de se lancer dans un projet de création d'un jeu ou d'une application en ligne C est donc ce que nous allons étudier dans un second temps Ensuite nous mettrons en place les bases d'un framework multijoueurs en ligne avec la création d'un lobby c'est-à-dire d'un hall permettant de créer une session serveur de rechercher des parties et de joindre l'une d'elles en tant que client Nous allons souvent utiliser les mots de jeu en ligne de joueurs mais au final lorsqu'on crée une application on parle d'utilisateur et de clients cela revient exactement au même Nous verrons que nous allons vite atteindre certaines limitations et nous mettrons en place un certain nombre d'éléments pour s'affranchir des limitations des Blueprints et créer un framework avancé avec une meilleure gestion des joueurs Nous verrons également comment développer un système de chat textuel et vocal comment utiliser l'instant replay qui permet de filmer des parties réseau et de rejouer l'intégralité ou une séquence en particulier de la partie Nous apprendrons à utiliser les outils de débogage et de mesure de performance du jeu sur le réseau Puis nous verrons comment configurer un serveur d'ici sous Windows OSX et Linux La mise en place d'un tel serveur n'est pas aussi simple qu'on pourrait le penser au préalable Cela nécessite par exemple une re-compilation complète de l'éditeur mais également une configuration plus avancée de votre projet Joindre une partie nécessite de connaître l'adresse du serveur qui héberge la partie Mais quand vous créez un jeu et que vous souhaitez lister l'ensemble des serveurs disponibles dans le monde entier ou par pays comment procéder Vous pouvez passer par des plateformes tierces comme Steam Nous verrons d'ailleurs comment utiliser Steam et configurer notre projet pour prendre en charge cette plateforme Mais si vous voulez vous affranchir de cela nous avons également développé un serveur sur mesure en PHP JSON hébergé chez vous ou avec votre site web que vous pourrez réutiliser et améliorer pour vos projets Nous allons d'ailleurs le développer ensemble Enfin si vous souhaitez développer un MMO ou avoir des services supplémentaires vous pouvez passer par des plateformes tierces autres que Steam comme Photon Engine pour le temps réel ou XtraLife BaaS pour le tour par tour Nous parlerons également du multijoueurs sur Android iOS Amazon Facebook PS4 Xbox One Nintendo Switch etc qui utilisent les mêmes fonctions que celles étudiées dans ce tome Quand on dit qu'Unreal Engine est cross platform cela n'est pas un vain mot vous pouvez mettre en place un serveur Linux hébergé sur le cloud d'Amazon EC2 et connecter des joueurs qui proviennent de clients divers comme Windows iOS ou Android et ce au sein d'une même partie D'ailleurs nous ferons le test avec un serveur et un client Win64 et un autre client HTML5 car il faut paramétrer le projet pour utiliser des WebSockets

Realtime Motion Graphics with Unreal Engine 4 Scott Pagano, 2016 **Unreal Engine 4 Shaders and Effects Cookbook** Brais Brenlla Ramos, John P. Doran, 2019-05-27 Build optimized efficient and real time applications that are production ready using Unreal Engine's Material Editor Key Features Create stunning visual effects for 3D games and

high quality graphics Design efficient Shaders for mobile platforms without sacrificing their realism Discover what goes into the structure of Shaders and why lighting works the way it does Book Description Unreal Engine 4 is a powerful game engine one which has seen a recent boost in widespread adoption thanks to its ease of use and the powerful rendering pipeline that it packs Seeing as how it s relatively easy to create stunning presentations and visuals Unreal has quickly become a strong contender in industries where this kind of software had been previously denied entry With that in mind this book aims to help you get the most out of Unreal Engine 4 from creating awe inspiring graphics to delivering optimized experiences to your users This is possible thanks to a mixture of hands on experience with real materials and the theory behind them You will immediately know how to create that material that you want to display and you ll also end up with the knowledge that will let you know how to control it All of this will be done without losing sight of two key components of any real time application optimization and efficiency The materials that you create will be light and efficient and they will vary depending on your target platform You ll know which techniques can be used in any kind of device and which ones should be kept to high end machines giving you the confidence to tackle any material related task that you can imagine Hop onboard and discover how What you will learn Master Unreal Engine s rendering pipeline for developing real time graphics Use physically based rendering PBR for building materials and lighting solutions Build optimized materials for games targeting multiple platforms Understand Unreal Engine s node and functions for creating desirable effects Design and build production ready shaders Explore Unreal Engine s Material Editor for building complex materials and textures Who this book is for This book is for developers who want to create their first Shaders in Unreal Engine 4 or wish to take their game to a whole new level by adding professional post processing effects A solid understanding of Unreal is required to get the most from this book

Unreal Engine: Motion Graphics Techniques Scott Pagano,2016 Unreal Engine: Motion Graphics Techniques ,2016 Expand your motion graphics skillset by learning how to prepare and import assets into the video game engine Unreal Engine 4 UE4 In this course Scott Pagano demonstrates techniques for designing and building animated assets that will translate with ease from Maya or Cinema 4D into UE4 for real time motion graphics rendering He covers importing and exporting workflows blendshapes rigs using FBX and Alembic files and rendering out a finished project Master the Art of Unreal Engine 4 - Blueprints - Double Pack #1 Ryan Shah,2014-09-29 Master the Art of Unreal Engine 4 Blueprints takes a concise clear informative but fun approach to developing Unreal Engine 4 without touching a single line of code By using this book you ll be creating various small projects completely in blueprint From this book you ll be equipped with the know how you ll need to create the game of your dreams On top of mastering the Blueprints system in Unreal Engine 4 you ll also learn the secrets behind getting the most out of the beast of an engine **Unreal Engine 4: Realtime Motion Graphics** ,2016 Unreal bridges the gap between 3D motion graphics and the processing power of real time game engines You can create content in familiar tools CINEMA 4D and Maya and use Unreal to animate and render those assets This workflow allows for

the creation of gorgeous imagery while bypassing the traditional time consuming rendering process of traditional 3D tools This course offers mograph designers a quick start guide to real time motion graphics in Unreal Engine 4 UE4 Scott Pagano shows how to prep and import both static and animated geometry and animate objects and cameras with the Matinee Editor He shows how to flesh out your scenes with Unreal s lighting and shading tools and export video files and image sequences for further refinement in software such as After Effects Following the quick start chapter are three real world projects that demonstrate the power of the workflow This forward thinking approach to motion graphics leaves antiquated processes behind and presents modern efficient and fun ways to create 3D imagery Once you have a grasp of how to import animate and make your content look great in UE4 the doors are open to dive into worlds of virtual reality gaming and interactive content Check out more of our Unreal training here

Unreal Engine 4 Game Development Essentials Satheesh PV,2016-02-25 Master the basics of Unreal Engine 4 to build stunning video games About This Book Get to grips with the user interface of Unreal Engine 4 and find out more about its various robust features Create dream video games with the help of the different tools Unreal Engine 4 offers Create video games and fully utilize the power of Unreal Engine 4 to bring games to life through this step by step guide Who This Book Is For If you have a basic understanding of working on a 3D environment and you are interested in video game development then this book is for you A solid knowledge of C will come in handy What You Will Learn Download both the binary and source version of Unreal Engine 4 and get familiar with the UI Get to know more about the Material Editor and how it works Add a post process to the scene and alter it to get a unique look for your scene Acquaint yourself with the unique and exclusive feature of Unreal Engine 4 Blueprints Find out more about Static and Dynamic lighting and the difference between various lights Use Matinee to create cut scenes Create a health bar for the player with the use of Unreal Motion Graphics UMG Get familiar with Cascade Particle Editor In Detail Unreal Engine 4 is a complete suite of game development tools that gives you power to develop your game and seamlessly deploy it to iOS and Android devices It can be used for the development of simple 2D games or even stunning high end visuals Unreal Engine features a high degree of portability and is a tool used by many game developers today This book will introduce you to the most popular game development tool called Unreal Engine 4 with hands on instructions for building stunning video games You will begin by creating a new project or prototype by learning the essentials of Unreal Engine by getting familiar with the UI and Content Browser Next we ll import a sample asset from Autodesk 3ds max and learn more about Material Editor After that we will learn more about Post Process From there we will continue to learn more about Blueprints Lights UMG C and more Style and approach This step by step guide will help you gain practical knowledge about Unreal Engine through detailed descriptions of all the tools offered by Unreal Engine

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