

跨域新視界 XR Showcase

文稿整理 / 林珮雯

跨域，是這個時代的新態度，也是在陽明交大學習的一種新選擇。由資工系莊榮宏教授、傳科系張宏宇教授、應藝所謝啟民教授及墨匠科技王銓彰執行長四位老師共同開設「XR 跨域專題」，亦為本校「創新科技」跨界力微學程計畫重點課程之一。

「XR 跨域專題」課程，結合了故事、虛擬與擴增實境技術、美術場景設計、音樂製作等領域，發展虛實整合之遊戲與互動應用。在課程結束後，為分享學習成果，於 110 年 10 月 6 日辦理期末 XR Showcase。由二十多個專題作品中，精選八組實作專案，開放予全校師生互動體驗。活動當天也請邀來自業界與學界的重量級評審講評，帶給學生更多實務上回饋，透過體驗交流，跨域實作課程的教育意義更為加豐富完整。以下是作品介紹：

最佳 XR 獎：SplitXR

成員：陳君杰 (CHEN,JUN-JIE)、邱兆國 (QIU,ZHAO-GUO)、鄭榮元 (ZHENG,QI-YUAN)、吳豐晉 (WU,FENG-JIN)、謝唯安 (XIE,WEI-AN)

在 AI 全面控制人類的時代，世界近全部領土已經被機器人給攻佔，一名瘋狂科學家鄧肯博士鑽研靈魂合體實驗，聲稱這是人類解藥，目前已有數千名實驗者不幸罹難。

勇於挑戰獎：不便夫妻

成員：江佳霖 (JIANG,JIA-LIN)、崔靖翔 (CUI,JING-XIANG)、林沂蓁 (LIN,YI-ZHEN)、梁卓然 (LIANG,ZHUO-RAN)、王崇銘 (WANG,CHONG-MING)

遊戲需要兩名玩家，一名玩家扮演四肢癱瘓的老婆，另外一名扮演失明的老公，本遊戲由老婆戴上 VR 頭盔，老公手拿 vive 控制器，在遊戲中兩位玩家需要互相配合，完成諸如走路回家、吃東西的任務。

最佳創意獎：石虎媽媽與小跟班

成員：謝唯安 (XIE,WEI-AN)、邱兆國 (QIU,ZHAO-GUO)、鄭榮元 (ZHENG,QI-YUAN)、吳豐晉 (WU,FENG-JIN)、楊宗穎 (YANG,ZONG-YING)

人類的開發對自然環境產生不少破壞，在陰錯陽差之下，石虎媽媽跟他的孩子竟然被載到了陌生的人類城市之中。他們必須想辦法在城市中活下去，然而在充滿污染的都市環境，他們有辦法安然渡過難關嗎？

最佳呈現獎：Vantasy

成員：崔靖翔 (CUI,JING-XIANG)、陳宇柔 (CHEN,YU-ROU)、李欣儒 (LI,XIN-RU)、林沂蓁 (LIN,YI-ZHEN)、陳彥云 (CHEN,YAN-YUN)

突然其來的一場風暴，城市一夕之間失去了顏色，生活在無色的環境之中的人們經歷著難以習慣的巨大變化，想像著過去的生活。在無數工作者幾年的努力下，人們終於重製出能產生色彩的工具，然而，大量的灰白生活空間無法只在少數人的努力下快速自癒。因此，我們想邀請你 / 妳加入我們，用你 / 妳喜歡的方式重塑這座城市的過去和未來可能的樣子，讓我們共同孕育這座城市，醞釀城市的嶄新顏色。

在過去的一年裡，疫情猝不及防的來到生活中，我們盡可能的待在家裡，被正在發生的全球疾病影響生活。隨著疫情的存在成為習以為常，人們回到實體生活中，雖然有些事已必然不能回歸到最初的狀態，但或許我們依然能夠做一些特別的小事，創造新的美好日常。

最佳人氣獎：遊樂園歷險記

成員：仲謙 (TU,ZHONG-QIAN)、楊祐維 (YANG,YOU-WEI)、李欣儒 (LI,XIN-RU)、吳學亮 (WU,XUE-LIANG)

城堡、小丑、海盜船，自由落體、摩天輪！熟悉的旋轉木馬音樂你聽到了嗎？

期待的暑假終於到了，遊樂園也再度開啟，歡迎各位小朋友們來到 < 挖屋遊樂園 >！你們將作為一對兄妹到遊樂園玩耍，在這裡你們可以玩到刺激的遊樂設施，探索遊樂園的景點，通過挑戰收集遊園點數，兌換豪華大禮！如果你想帶走禮物回家，請找上一個你最有默契的夥伴，一起展開精采的遊樂園冒險旅程吧！



Showcase 展入圍：For The Cookie!

成員：陳君杰 (CHEN,JUN-JIE)、吳學亮 (WU,XUE-LIANG)、梁卓然 (LIANG,ZHUO-RAN)、江佳霖 (JIANG,JIA-LIN)

本遊戲為 2 對 2 的 VR 連線對戰遊戲，兩方人馬必須設法跑到終點獲得終點的大餅乾，背景則是設定在有法師以及騎士的中古世紀。

每一組玩家一人會遊玩 VR、另一位則是操縱鍵盤滑鼠以及看電腦的畫面，玩 VR 的玩家擔任騎士，要負責控制角色的左右以及跑步並把法師丟向餅乾，PC 玩家則是擔任法師，負責用滑鼠瞄準來施放法術，來阻撓對手或是加強我方。

值得一提的是本遊戲的法術皆是時間法術，讓玩家在射出法術後可以體驗操縱時間的快感！

Showcase 展入圍：Rewind

成員：曾奕淳 (ZENG,YI-CHUN)、郭光祥 (GUO,GUANG-XIANG)、曾冠儒 (ZENG,GUAN-RU)、許鎮宇 (XU,ZHEN-YU)、王崇銘 (WANG,CHONG-MING)

這是一個恐怖輪迴探索的單人遊戲，玩家需要不停輪迴的場景中找尋主角在故事究竟發生了什麼事。過程中會一直有未知的旁白向玩家說話，彷彿他在描述玩家 (你) 在故事中的行為。玩家可以照著自己的想法選擇是否聽從這個旁白做出不一樣的行為，玩家的舉動會影響著故事還有路線的進行。





XR Showcase Presents New Vision

Having cross-domain skills is considered important and a new choice for students nowadays. At National Yang Ming Chiao Tung University (NYCU), we offer courses to cultivate students with such abilities. "XR Cross-Disciplinary Project", provided and collaborated by a teaching team including Dr. Jung-Hong Chuang at the Computer Science Department, Dr. Hong-Yu Chang at the Department of Communication and Technology, Dr. Chi-Min Hsieh at the Institute of Applied Arts, and Chuan-Chang Wang, the executive director of Blacksmith Technology Ltd. The course also is one of the major courses in the Interdisciplinary Program.

The "XR Cross-Disciplinary Project" course combines storytelling, virtual and augmented reality technologies, art scene design, and music production to develop virtual-reality integrated games and interactive applications. At the end of the course, the XR Showcase was held on October 6, 2021, to share the results of the learning outcome. 8 groups of projects were selected from more than 20 projects and opened to all students and professors for the interactive experience. On the day of the event, we also invited well-known judges from the industry and academia to give feedback to the students. Through the event, students demonstrated their meaningful learning journey gained from the course and the following are students' projects.

Best XR Award: SplitXR

Members: Jun-Jie Chen, Zhao-Guo Qiu, Qi-Yuan Zheng, Feng-Jin Wu, and Wei-An Xie.

In the era when AI takes complete control of human life, a crazy scientist named Dr. Duncan devoted himself to soul-mixing experiments. He claimed it was the solution for humans. However, thousands of participants have died due to the experiments.

Challenge Award: Inconvenient couple

Members: Jia-Lin Jiang, Jing-Xiang Cui, Yi-Zhen Lin, Zhuo-Ran, Liang, and Chong-Ming Wang

This game requires two players. One will play as a disabled wife, another as

a blind husband. In this game, the wife needs to put on a VR helmet while the husband controls the vive remote control. They need to collaborate to complete daily tasks such as walking home and eating meals.

Most Creative Award: Leopard cats and the kids

Members: Wei-An Xie, Zhao-Guo Qiu, Qi-Yuan Zheng, Feng-Jin Wu, and Zong-Ying Yang.

Human development has caused damage to our natural environment. By accident, leopard cats and her kids were taken to an unfamiliar human city, and they had to find ways to survive in the urban city. In this game, players need to help them to overcome challenges in the polluted environment.

Best Presentation Award: Vantasy

Member: Jing-Xiang Cui, Yu-Rou Chen, Xin-Ru Li, Yi-Zhen Lin & Yan-Yun Chen

A city lost its colors overnight after a sudden storm, and citizens living in the colorless environment experienced a huge change that was hard to get used to. Many of them imagine they could go back to the past. After years of efforts, people finally recreated the tools to produce color. However, it was difficult to recover all colors with limited efforts among a few people. Therefore, we would like to invite you to join us to reshape the past and the possible future of this city in the way you like, so that we can nurture this city together and brew a new color for the city.

Over the past year, life has changed a lot due to the Covid-19 pandemic, and we had to stay at home most of the time. Although life cannot go back to the time when there was no pandemic, perhaps we could do something to make our daily lives better.

The Popularity Award: Amusement Park Adventure

Members: Zhong-Qian Tu, You-Wei Yang, Xin-Ru Li, Xue-Liang Wu

Castle, clown, pirate ship, free fall, Ferris wheel! Can you hear the music of the carousel? The long-awaited summer vacation is finally here, and "WOW Amusement Park" welcomes you all. You will be playing as a brother and sister in this game, and you will have a good time in our amusement park by playing exciting rides, exploring different attractions, and winning prizes by overcoming challenges. Please bring your best partner to go on this adventure with you.

Showcase Exhibition Finalists: For the Cookies!

Members: Jun-Jie Chen, Xue-Liang Wu, Zhuo-Ran

Liang, Lia-Lin Jiang

The VR games take place in the middle ages which had wizards and knights showing up. Played by two players against two players, each team has to think of ways to arrive at the final spot to earn a large cookie for the game. During the game, one of the players needs to play the VR machine. Another player needs to control the keyboard and the mouse while watching the monitor. The VR player will be the knight who needs to move around and throw cookies at the wizard (PC player). The PC player will be the wizard to spell magic by using the mouse. It is worth mentioning that the spells in this game are all time spells, allowing players to experience the thrill of manipulating time after shooting spells!

Showcase Exhibition Finalists: Rewind

Members: Yi-Chun Zeng, Guang-Xiang Guo, Guan-Ru Zeng, Zhen-Yu Xu & Chong-Ming Wang.

This is a single-player game of horror exploration, where the player needs to find out what has happened to the protagonist in the story in a constantly rotating scenario. An unknown narrator speaks to the player all the time as if he is describing the player's (your) behavior in the story. The player can choose whether to listen to this narrator to make a different behavior according to their ideas. Different decisions will lead to different story endings in the game.

