Surakarta | October, 8th 2023

Empowering 597 Future Changemakers

A 150-Hour Journey Through LibreOffice and Open Document Formats in Taiwanese Junior High School

Kuan-Ting Lin **(CC BY 4.0)**
Louca at ting dot tw

https://louca.id

Ask anytime

Send & view questions at https://slido.com

#5929910

You need to agree to additional privacy terms to use Slido.

This talk is about...

Exploring a 150-hour experiment of LibreOffice curriculum implemented for 597 Taiwanese junior high students.

Pembicaraan ini tentang... Mengeksplorasi eksperimen 150 jam dari kurikulum LibreOffice yang diterapkan untuk 597 siswa SMP Taiwan.

Q&A *https://slido.com*
#5929910
(privacy terms apply)

Why teach early?

The ripple effect – how one engaging student can reach out to thousands throughout lifetime

My own experience getting to know Ubuntu (and OpenOffice.org) since 10 years old

Q&A *https://slido.com*
#5929910
(privacy terms apply)

Chosen students & the course

597 7th & 8th grade Taiwanese pupils (12-13 yo)

Urban, efficiency-first New Taipei public school

18 Apr – 27 Jun, 8-12 hrs each for 18 classes

Each student with a Windows 10 PC

Q&A *https://slido.com*
#5929910
(privacy terms apply)

LibreOffice
Conf.Asia
2023
ubu
CON
Asia
2023

The LibreOffice curriculum

More than software – focused on philosophy

Defending the importance of FLOSS in the age of cloud

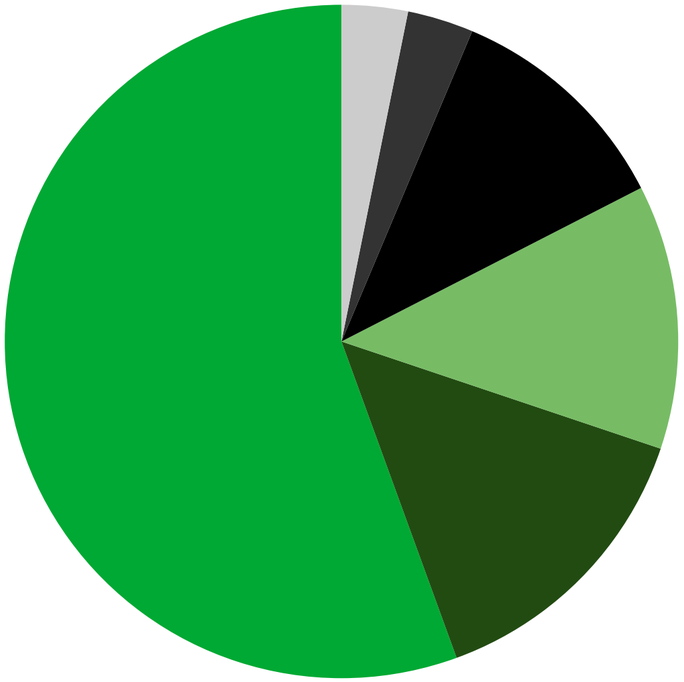
Bringing values of freedom into tech education

Q&A *https://slido.com*
#5929910
(privacy terms apply)

Taiwan National IT curriculum

Junior high IT consists of 90hr spent in computer classrooms (approx. 45min over 40wks for 3 yrs)

- **Algorithm (56%)**
  Scratch, Algorithm Concepts, App Inventor & Python
- **Ethics, Laws & Security (14%)**
  Not Including Copyright Laws
- **General Knowledge (13%)**
  Computer System, Internet, History, Industry
- **Data (11%)**
  Google Sheets & Microsoft Excel *LibreOffice only mentioned
- **Copyrights & CC (3%)**
  Fair Use & Creative Commons
- **Digital Media (3%)**
  Digital Sound, Image & Audacity



Distribution of Weekly Themes in *Han Lin*'s 2023 Junior High School IT Curriculum for 7th-9th Grade (Based on Taiwan Government's Curriculum)

Categorized and Compiled by: Kuan-Ting Lin. Data Source: Han Lin Publishing Company's Junior High School Information Technology Teaching Plans, School Year 2023, Based on Taiwan Government's Curriculum

Q&A *https://slido.com*
#5929910
(privacy terms apply)

Taiwan National IT curriculum

And how to justify the LibreOffice/FLOSS-related knowledge in the IT course

- Algorithm (56%) → Licenses of the tools and their meanings
  Scratch, Algorithm Concepts, App Inventor & Python
- Ethics, Laws & Security (14%) → How FLOSS can be ethical and secure
  Not Including Copyright Laws
- General Knowledge (13%) → The inherent open source spirit of IT
  Computer System, Internet, History, Industry
- Data (11%) → Just teach using Calc instead, also ODF
  Google Sheets & Microsoft Excel *LibreOffice only mentioned
- Copyrights & CC (3%) → Dive into (free) licensing cases and resources
  Fair Use & Creative Commons
- Digital Media (3%) → Open (social/online) media making with FLOSS tools
  Digital Sound, Image & Audacity

Distribution of Weekly Themes in *Han Lin*'s 2023 Junior High School IT Curriculum for 7th-9th Grade (Based on Taiwan Government's Curriculum)

Categorized and Compiled by: Kuan-Ting Lin. Data Source: Han Lin Publishing Company's Junior High School Information Technology Teaching Plans, School Year 2023, Based on Taiwan Government's Curriculum

Q&A *https://slido.com*
#5929910
(privacy terms apply)

Teaching plan for a 10hr class

2 Hours — **Basic concepts**

FLOSS vs commercial, ODF vs OOXML, Public Money? Public Code!
Exercise: identifying and analyzing free software

2 Hours — **Case studies**

Software: Mainly LibreOffice, mentioned Scratch, Mastodon & Firefox
Policy: EU and Taiwan govt software procuration (w/ videos & handouts)

4 Hours — **Group researching & presentation making**

Choose from the topics & materials provided by instructor. Topics include deep dives into above issues, also comparison of LibreOffice, Google Docs & Microsoft Office

2 Hours — **Final presentation & note taking**

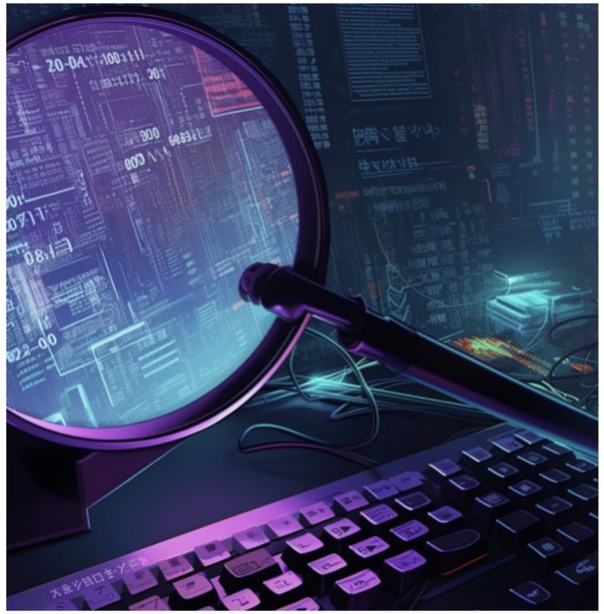
File format must be ODF. Students are encouraged to use LibreOffice to present. Graded by quality of presentation, how well fellow pupils understand the presentation and one's notes on others' works

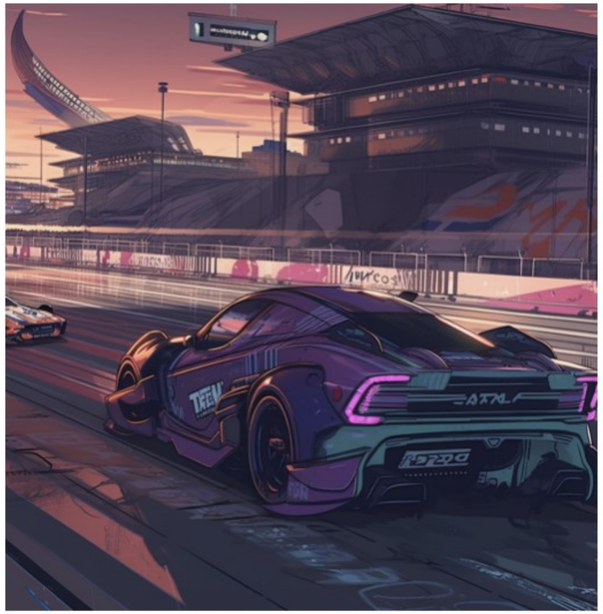
LibreOffice Conf.Asia 2023

Q&A *https://slido.com*
#5929910
(privacy terms apply)

Example slide of basic concepts

Public Money? Public Code! 的好處

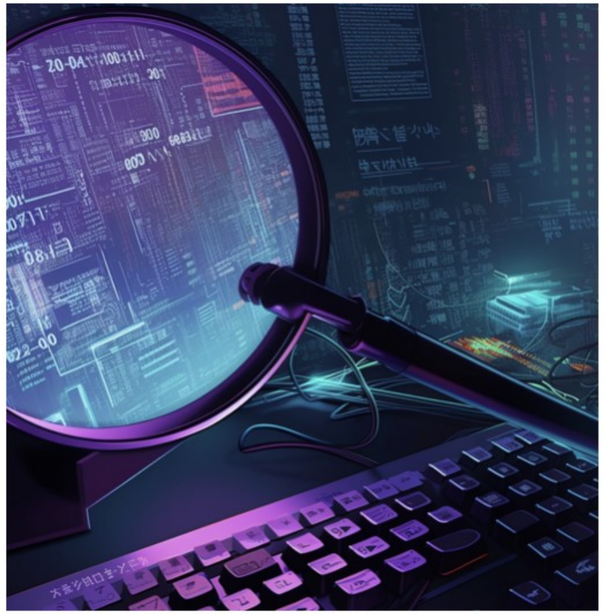




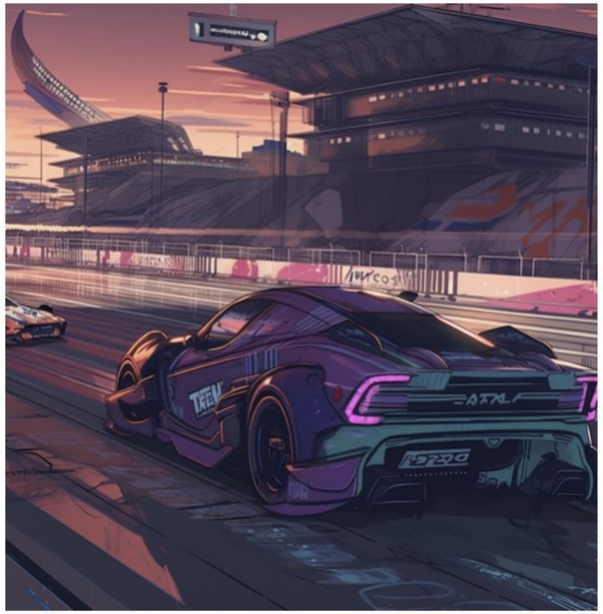
提高透明度　　**公平競爭**　　**資源合理利用**

Example slide of basic concepts

The benefits of [adapting] “Public Money? Public Code!”



More transparent



Compete fairly

Utilize resources reasonably

Facebook與Instagram的專有限制 vs 開放的Mastodon

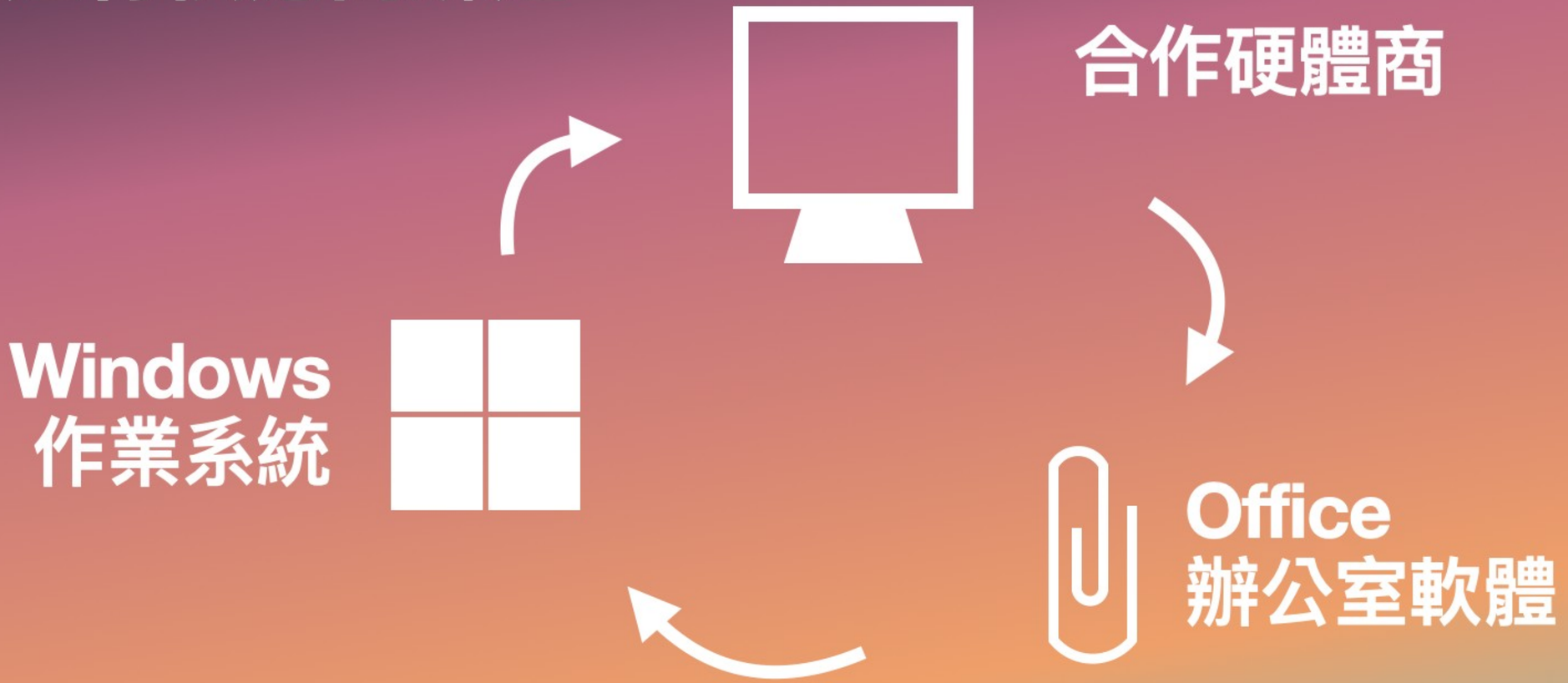
The limits of proprietary Facebook & Instagram

vs

The open Mastodon

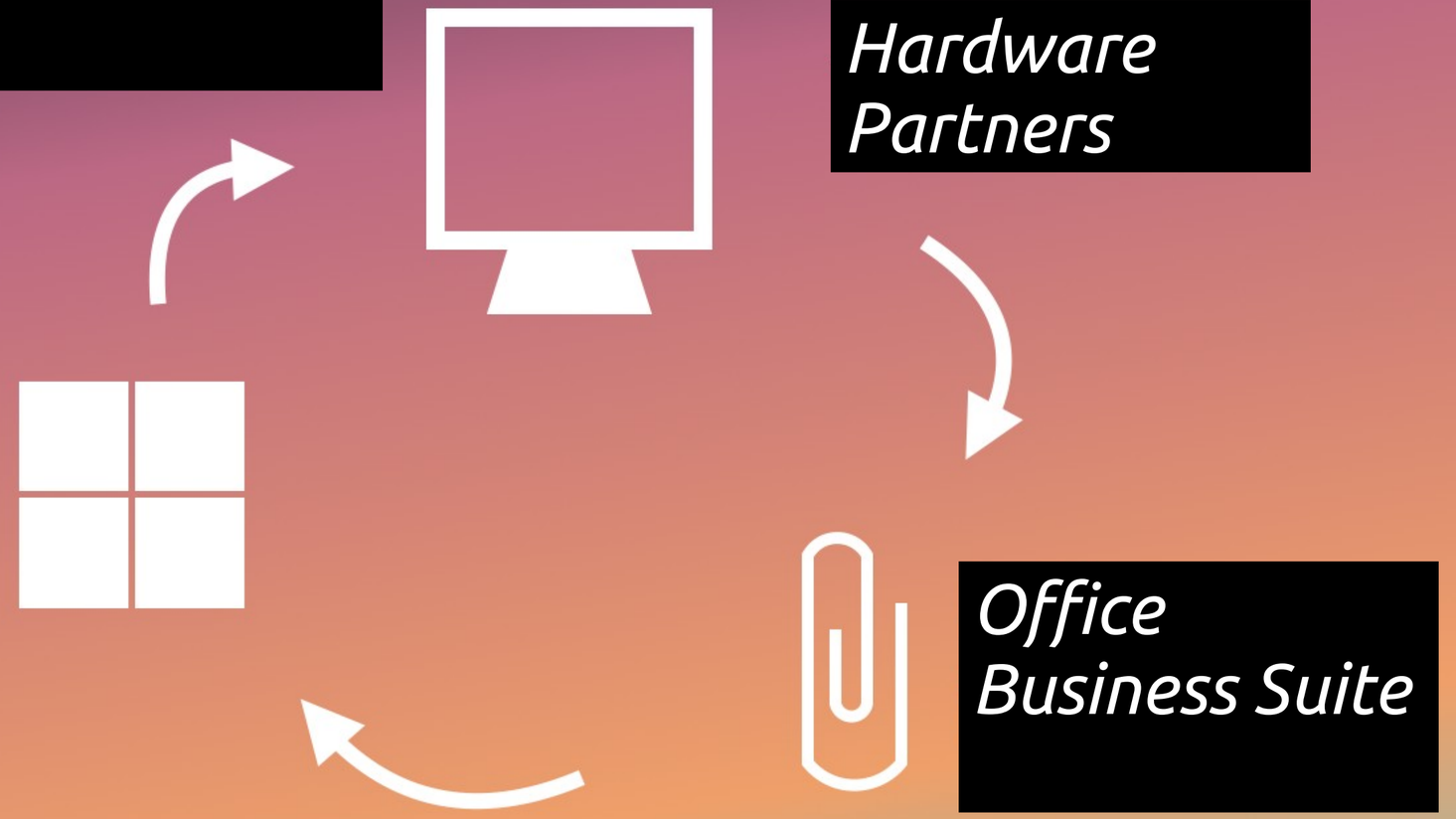
微軟如何在政府與學校進行供應商綁定

Example slide of case studies



Example slide of case studies

How Microsoft made vendor lock-in possible in government and school settings



Hardware Partners

Office Business Suite

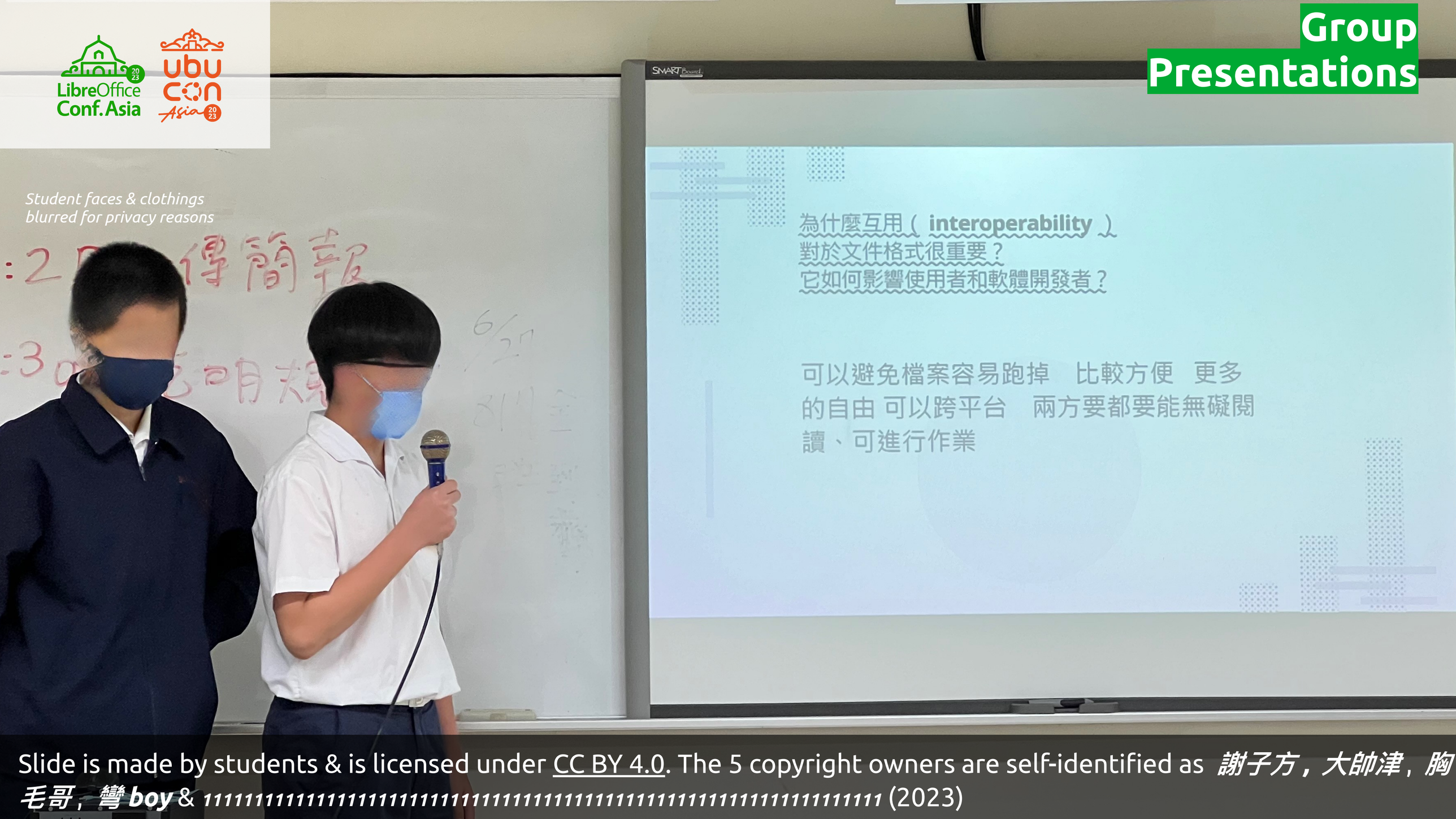
Windows OS

LibreOffice Conf.Asia 2023

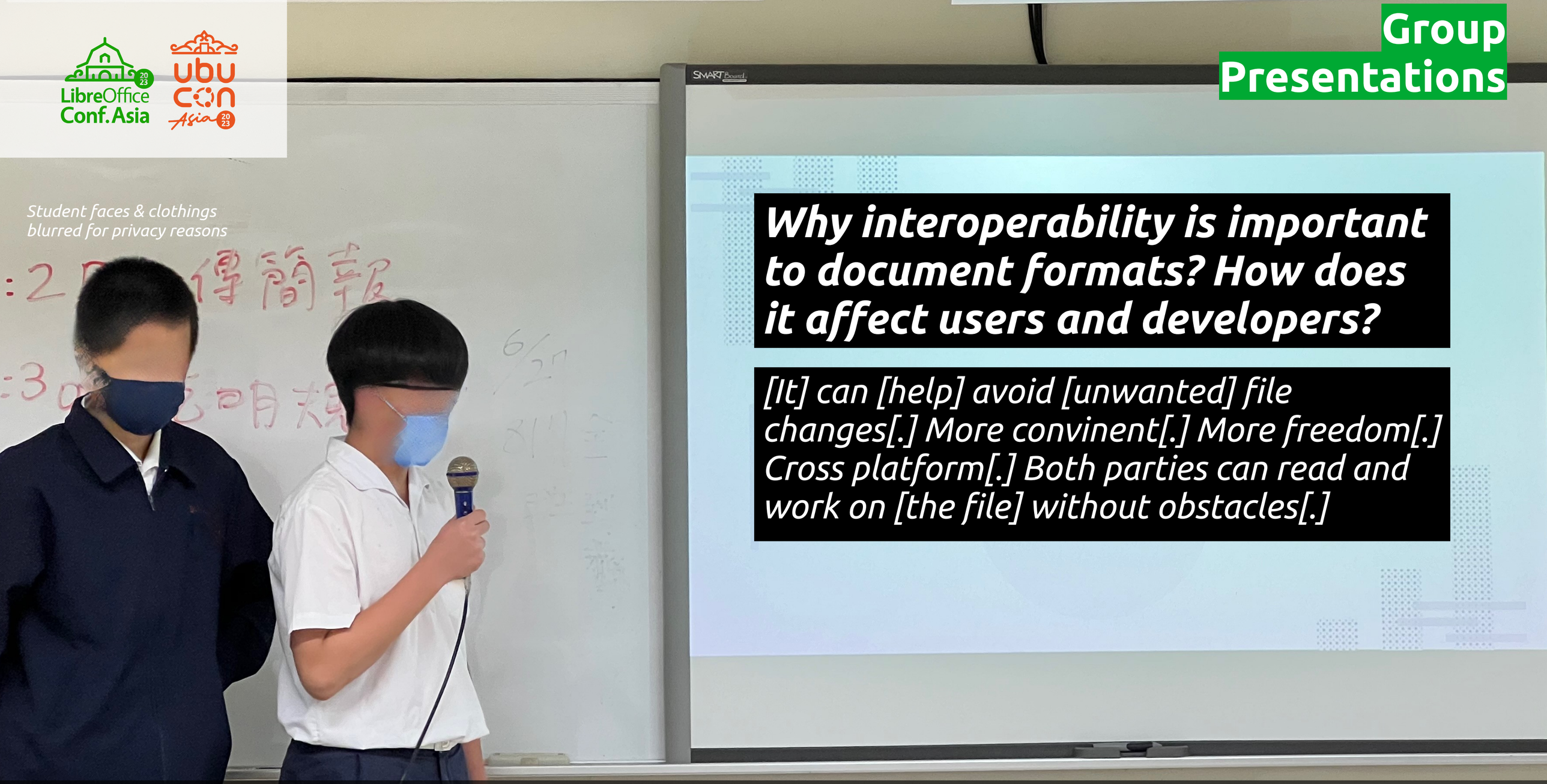
ubucon Asia 2023

Group Presentations

Student faces & clothings blurred for privacy reasons



Slide is made by students & is licensed under CC BY 4.0. The 5 copyright owners are self-identified as *謝子方*，*大帥津*，*胸毛哥*，*彎 boy* & *111111111111111111111111111111111111111111111111111111111111111111111111111* (2023)



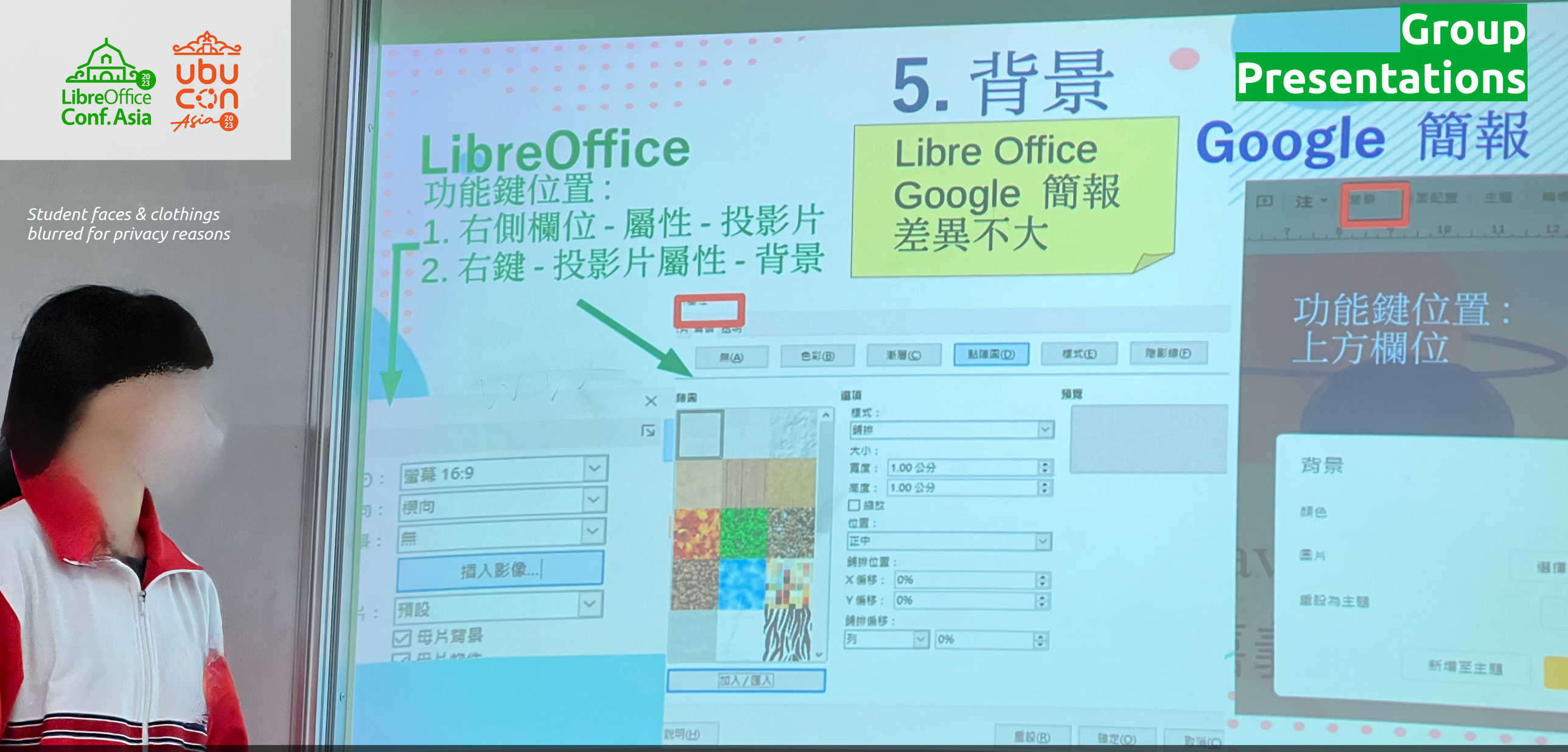
Slide is made by students & is licensed under CC BY 4.0. The 5 copyright owners are self-identified as *謝子方，大帥津，胸毛哥，彎 boy* & *111111111111111111111111111111111111111111111111111111111111111111111111111111* (2023, modified/translated by Kuan-Ting Lin)

LibreOffice Conf.Asia 2023

ubucon Asia 2023

Group Presentations

Student faces & clothings blurred for privacy reasons



Slide is made by students & licensed under CC BY 4.0. The 4 copyright owners are self-identified as ***OVER***, ***Youliiii***, ***rrff*** &

(2023)

Group Presentations

Google Slides

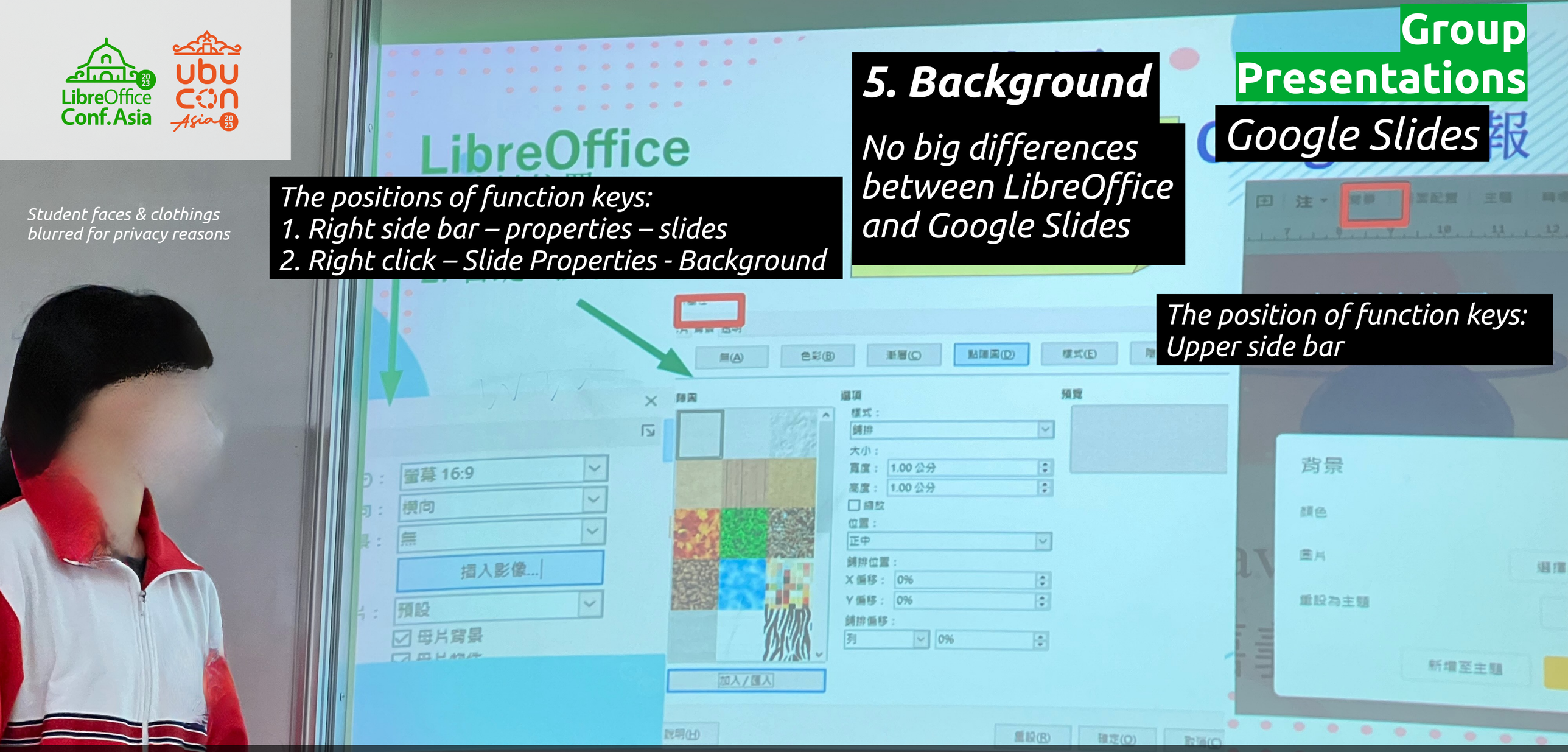
5. Background

No big differences between LibreOffice and Google Slides

Student faces & clothings blurred for privacy reasons

The positions of function keys:
1. Right side bar – properties – slides
2. Right click – Slide Properties - Background

The position of function keys: Upper side bar



Slide is made by students & licensed under CC BY 4.0. The 4 copyright owners are self-identified as ***OVER***, ***Youliiii***, ***rrff*** & ..... (2023, modified/translated by Kuan-Ting Lin)

Challenges & Opportunities

Q&A https://slido.com
#5929910
(privacy terms apply)

01

Cloud-centric mindsets

Faculty and students are used to an all-Google, web & mobile-only environment. Little infrastructure investment in online version of LibreOffice.

02

IT as non-major subject

Less control from school & parents in how to teach, but learning is almost limited to bi-weekly class meetings.

03

Curriculum lacks FLOSS concepts

Few & fractured mentioning of FLOSS concepts in curriculum. (Scratch is largely used, but as a tool, not for its free values.)

04

Increasing digital divide

Digital literacy, belief systems & study needs built very differently among pupils, resulting in hardship in teaching FLOSS concepts.

Lessons Learned

Q&A https://slido.com
#5929910
(privacy terms apply)

01

Simplify materials

Don’t be afraid of oversimplifying. Focus on passing the right values for the majority, while allowing critical thinkers go further.

02

Personalize for potential contributors

The high achievers are full of potential for the community. Show them the codes, let them contribute now (but also teach them to behave) – there’s no minimum age to join!

03

Adapt for Cloud Natives

Plan ahead and do what your resources allow – teach saving, propose alternative collaboration skills, build a server, teach building servers...

04

Stick with the values

Teachers are the moral compass for kids. Don’t treat software as a neutral tool, but something that can lead the society to be better or worse.

LibreOffice Conf.Asia 2025

ubucon Asia 2023

Q&A https://slido.com
#5929910
(privacy terms apply)

Thanks to Our Sponsors

LibreOffice
The Document Foundation

Canonical
Ubuntu

ONLYOFFICE

IndoBSD
Serving IT & Digital World. Accurately.

APJII Asosiasi Penyelenggara Jasa Internet Indonesia

IDNIC indonesia network information centre

Kopi Toedjoeh

nevacloud

Biznet GioCloud

Ubuntu Korea