

臺大醫學院研發分處 第一共同研究室顯微影像核心

# IMAGEJ顯微影像分析 與程式設計

零基礎的學生也能掌握基本顯微影像分析能力

2025 3.3-4.28 周一 13:30-14:30 共7堂  
影像前處理、AI應用、自動化分析

海報網址 報名網址

### 課程資訊及授課教師

2025/3/3(一) 【生物影像分析概論】  
溫榮崑 中央研究院 生化所 生物影像核心設施  
研究助技師

2025/3/10(一) 【生物影像流程與小組討論編組】  
許紹君 臺灣大學分子影像重點技術平台  
助研究專家

2025/3/17(一) 【影像分析自動化】  
張仁乾 日本理化學研究所  
專門技術員

2025/3/24(一) 【互動式影像分析流程建立】  
朱章臣 中央研究院 細生所 公共儀器室影像組  
專案研發學者

2025/3/31(一) 【物件追蹤分析】  
黃紀顯 中央研究院 植物所 細胞核心實驗室光學顯微鏡組  
專案研究人員

2025/4/7(一) 【AI: 機器學習與深度學習工具介紹】  
羅安琦 臺灣大學分子影像重點技術平台  
副技師

2025/4/28(一) 小組發表  
許紹君 臺灣大學分子影像重點技術平台 助研究專家  
朱章臣 中央研究院 細生所 公共儀器室影像組 專案研發學者

### 課程簡介

本課程將介紹生物影像的基本元素、如何利用FIJI進行影像前處理、影像切割、特徵萃取、程式設計與編碼、互動式影像分析流程與GPU加速、AI(機器學習與深度學習工具)、物件追蹤、常用的資料庫以及如何分享自己的作品。將視報名人數進行小組發表與討論，利用工作中學習的方式提升課程效果。

### 課程目標

希望零基礎的學生參與課程後，都能具備基本分析顯微影像的能力。

### 上課須知

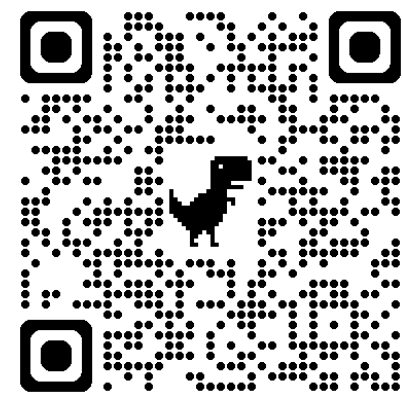
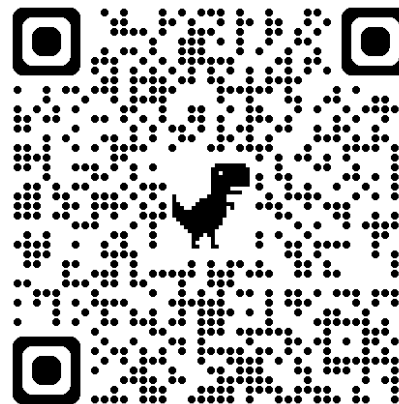
- 即日起開放報名，報名方式如下：
  - 提供姓名，EMAIL，任職/就學單位，實驗室主持人姓名。
  - 以一張A4篇幅文字說明實驗目的與欲解決的問題，並以一張投影片頁面作為輔助材料。
- 優先錄取自備影像分析問題並想透過課程學會如何自己解決問題者。
- 課程會同步紀錄影音並於課後上傳至教學影音平台。
- 每堂課皆會點名，上課出勤不得缺課超過一堂。
- 需自備筆電。

主辦單位：臺大醫學院研發分處 第一共同研究室顯微影像核心  
協辦單位：中央研究院 生物化學研究所  
地點：基基大樓講堂區 5 樓 未來教室 (原508教室)

招生人數：實體招收24人，線上30人。  
報名截止日：額滿為止，恕不開放現場候補。  
聯絡人：第一共研顯微影像核心 林思廷 szuting@ntu.edu.tw

## 上課注意事項:

1. 教室內禁止攜帶食物飲料入內，僅允許“白開水”，請大家將食物飲料放置於教室外的桌上。
2. 請實體與線上學員掃描以下QR code進行線上簽到。
3. 請線上學員於課程開始前關閉自己的麥克風。
4. 線上學員若有問題，請先按下“舉手”，或於聊天室寫下問題，將於課程結束後在場地時間允許下，安排QA時間。
5. 現場學員發問時請使用麥克風才可進行收音。



[線上簽到](#)

[課程材料與資訊連結](#)



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Wei-Chen Chu  
ICOB Imaging Core

# ImageJ 顯微影像分析與程式設計 – 文件與程式碼授權簡介

## Introduction to Licensing for Documents and Code

-From CC to MIT, BSD, Apache & GPL

**Wei-Chen CHU (朱韋臣)**

R&D Scientist

ICOB Imaging Core, Academia Sinica, Taiwan

EABIAS (East Asia Bioimage Analysts' Society)

<https://eabias.github.io/>



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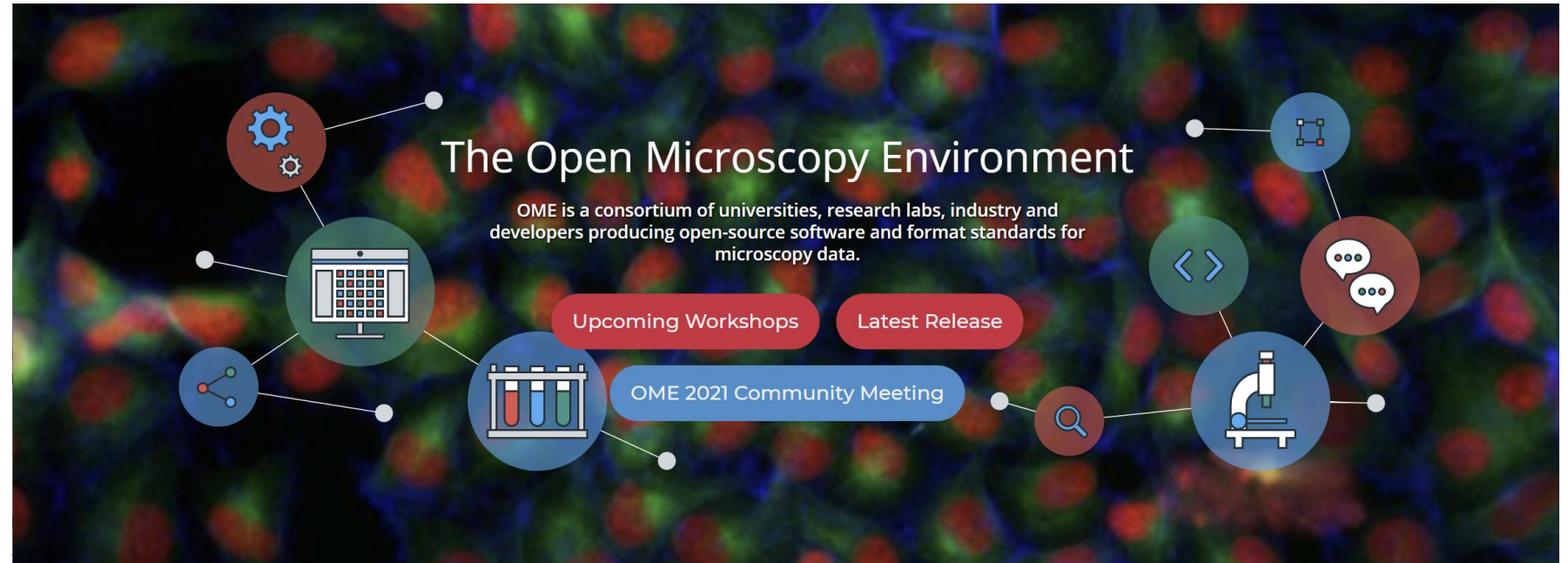


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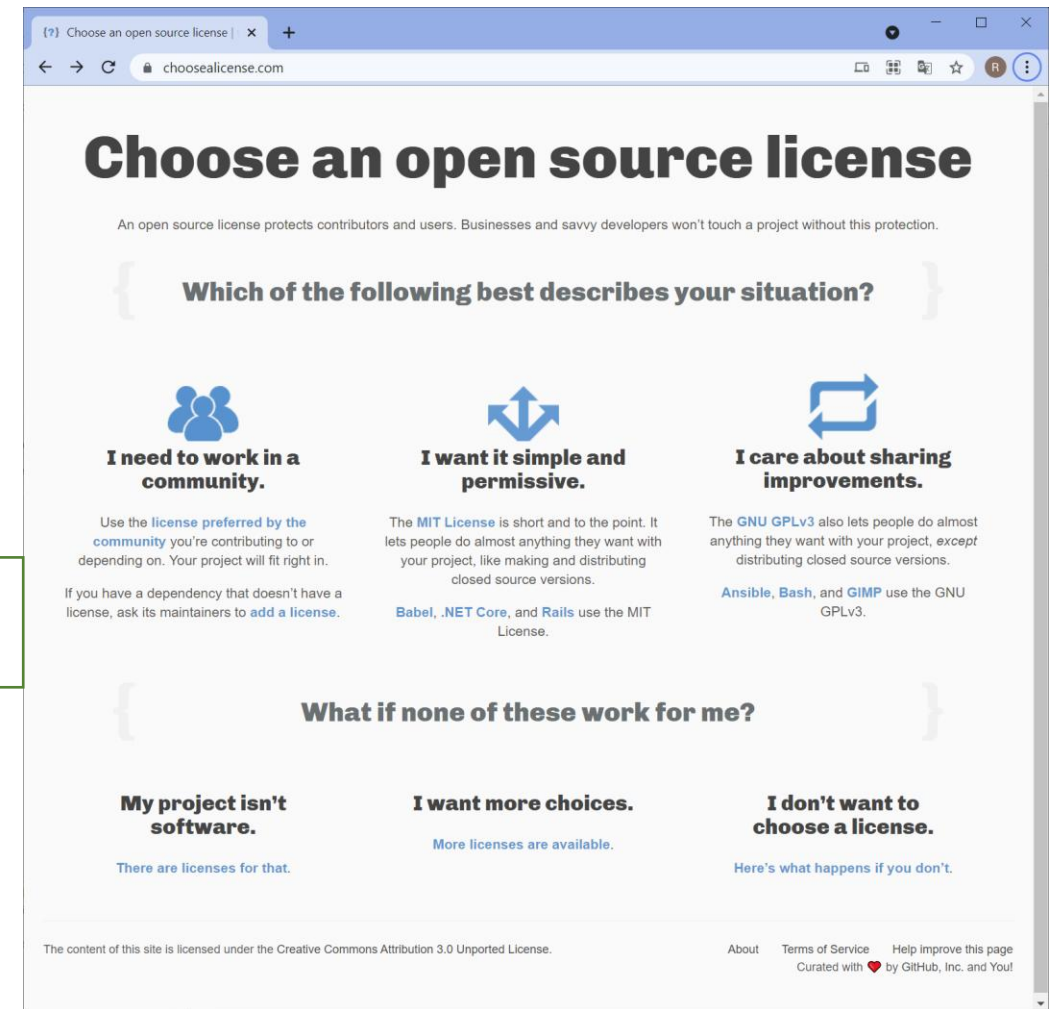
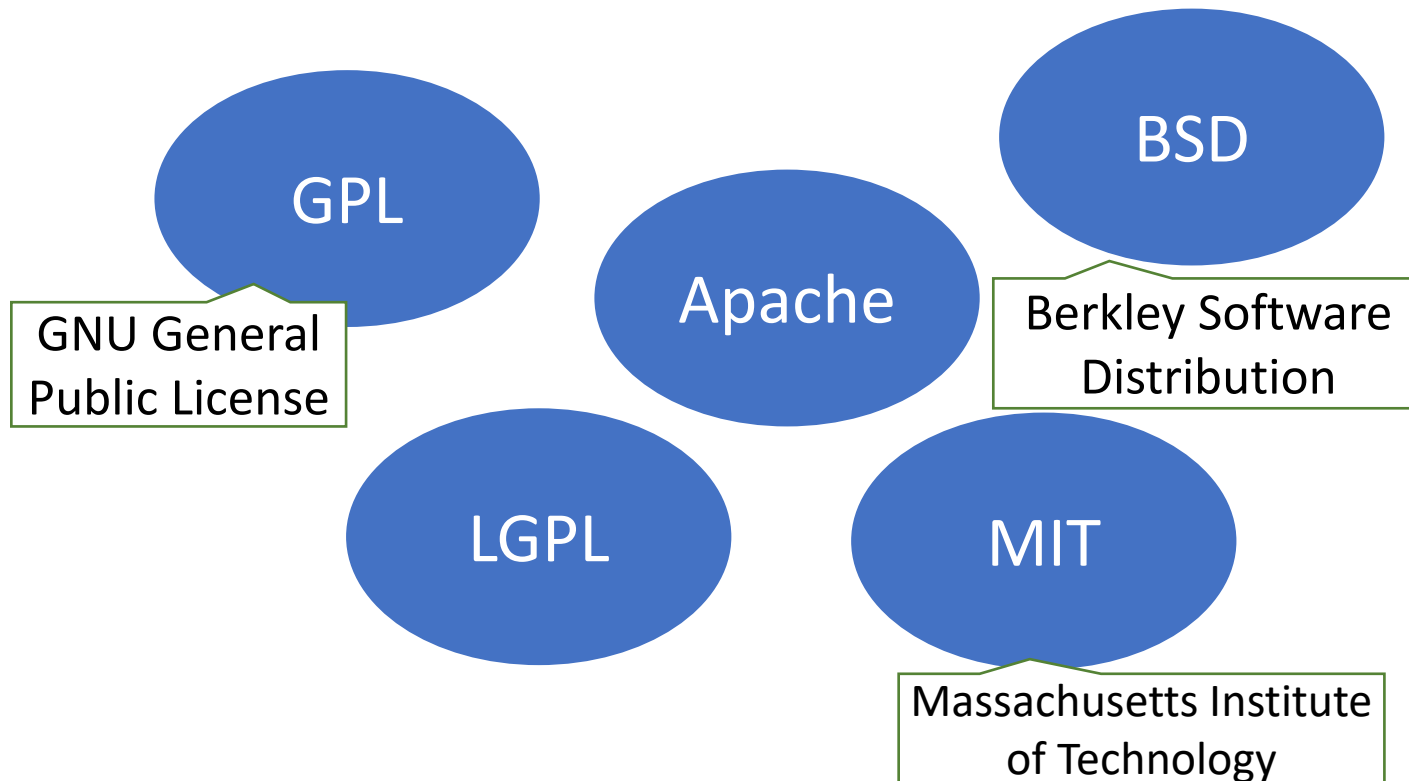
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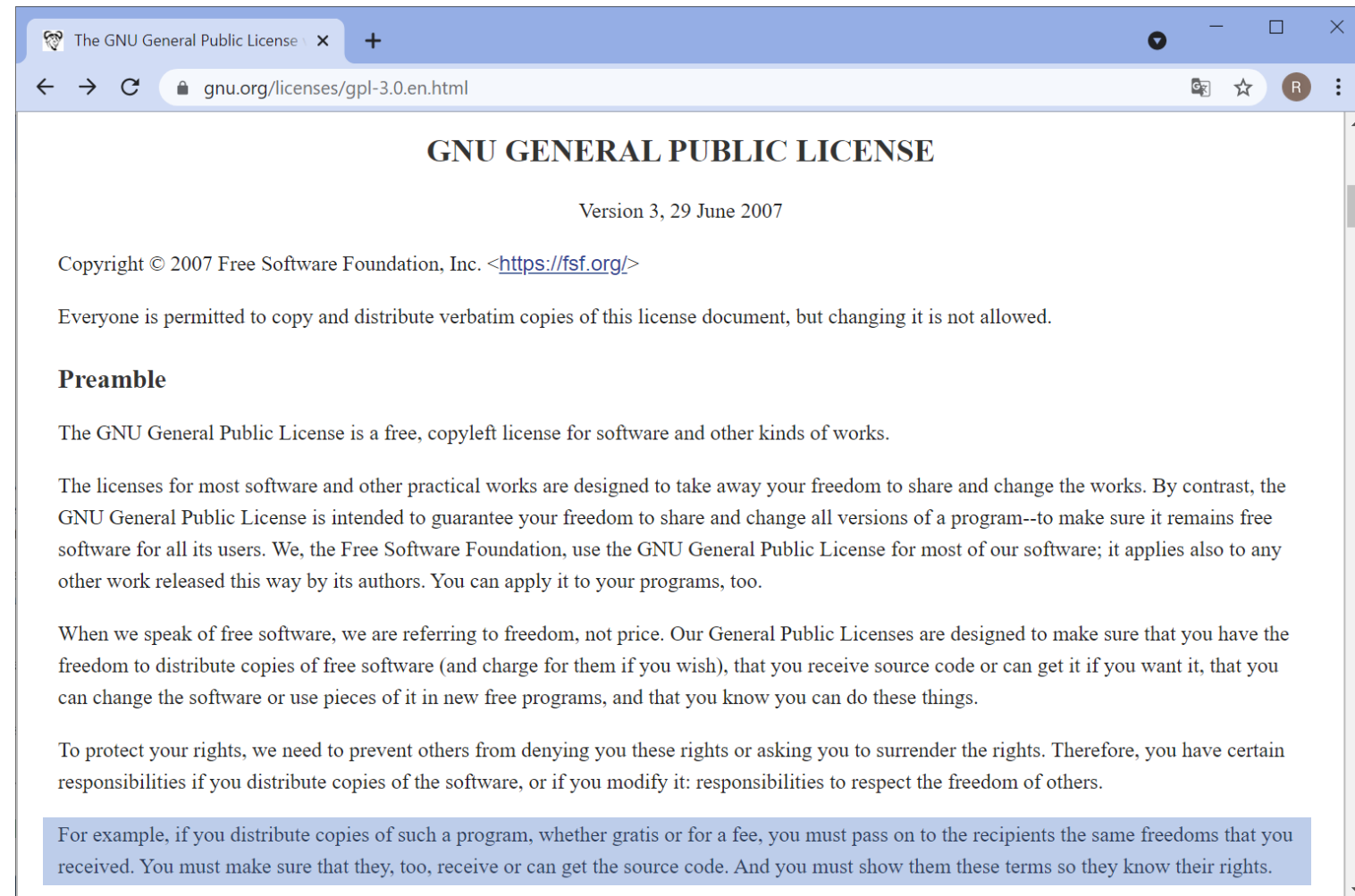


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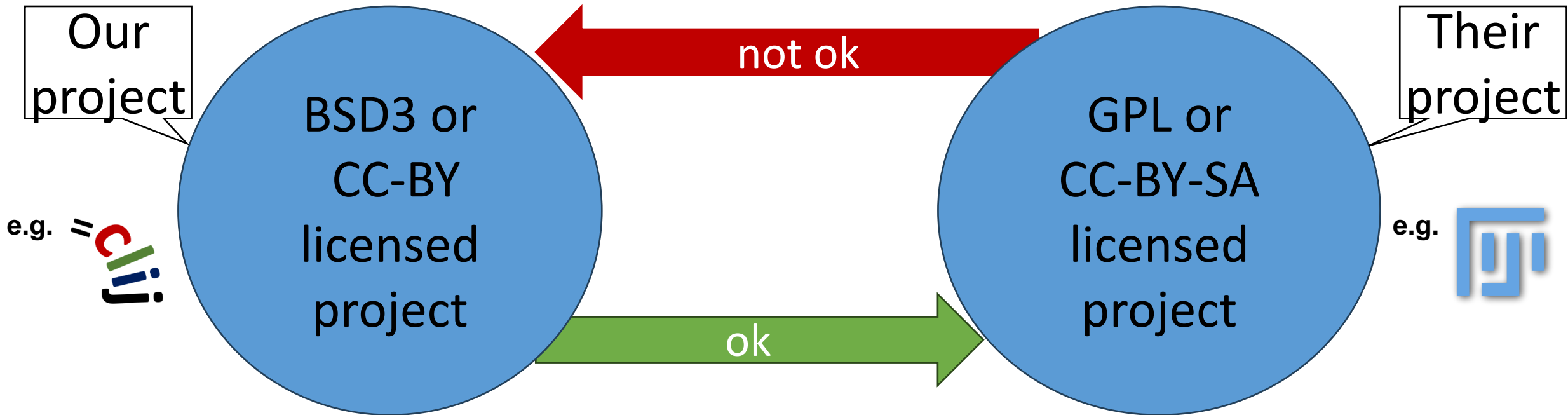
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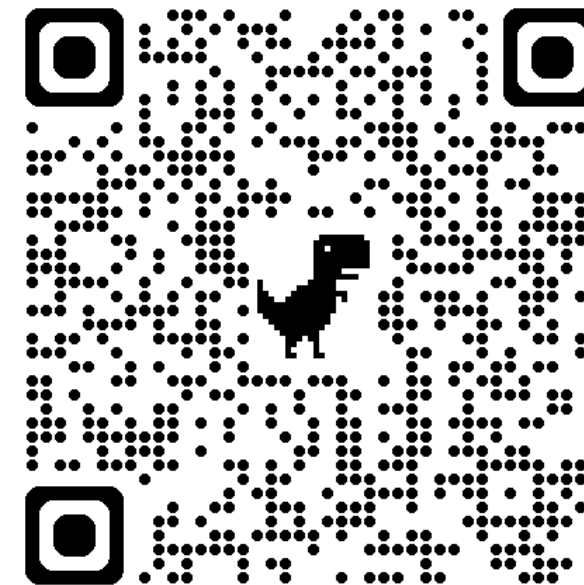
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課後意見調查



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Wei-Chen Chu  
ICOB Imaging Core