How Would The Future Remember?
On the Sunflower Movement Archive, COVID-19 Memory, and Activist Archiving

未來將如何記得?
太陽花運動典藏庫、 COVID-19 記憶、行動典藏

2024-05-28 @ National Taiwan University Library
Symposium in Open Science and Data Curation
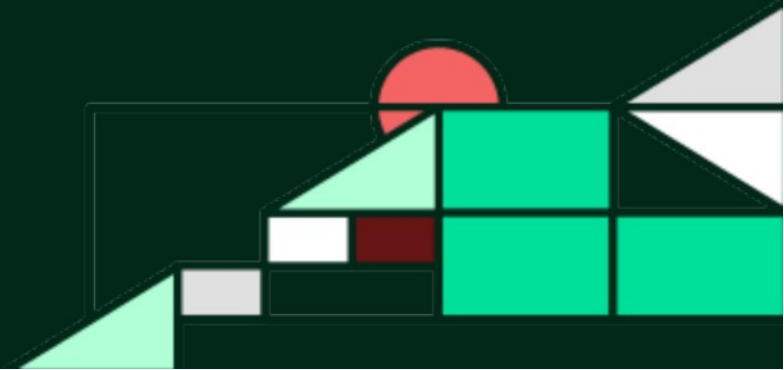
Tyng-Ruey Chuang 莊庭瑞
trc@iis.sinica.edu.tw

Institute of Information Science 資訊科學研究所
Academia Sinica 中央研究院
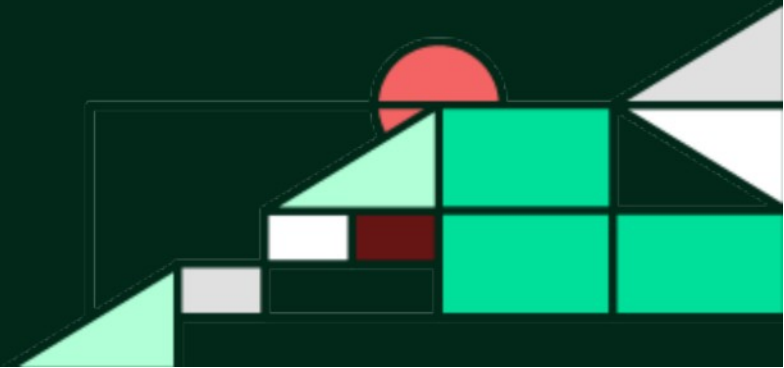Taiwan 台灣

ark:37281/k5s6z4t0s

Topics of Today

- Remembrance Is Hard Work

- What We Have Been Working On
  - *Sunflower Moverment Archive*
  - *COVID-19 Images and Stories*
  - *depositar*, an open repository for FAIR data

- Discussion

Remembrance Is Hard Work

Libraries and Museums on Fire

> **Dr Wade F. Petersen**
> @PetersenLab_UCT
>
> Heartbreaking to see the University of Cape Town like this. Greatly appreciative of all the firefighters and first responders who are working tirelessly to get the Table Mountain fire under control.
>
> 12:05 AM · Apr 19, 2021 · Twitter for iPhone
>
> **65** Retweets   **26** Quote Tweets   **211** Likes

https://twitter.com/PetersenLab_UCT/status/1383813953235537921

"Fire at the National Museum of Brazil, in Rio de Janeiro, on 2 September 2018"

https://commons.wikimedia.org/wiki/File:Fire_at_Museu_Nacional_05.jpg

4

Link Rots and Content Drifts

- Link Rot: Links to web pages that once existed but have vanished.

- Content Drift: The web page identified by a link changes over time.

- "50% of the content is lost after just one year, with more being lost each subsequent year."
  https://britishlibrary.typepad.co.uk/webarchive/2015/09/ten-years-of-the-uk-web-archive-what-have-we-saved.html

- "[about the external] links found in articles at nytimes.com since ... 1996, 25% of [them] have rotted."
  https://www.theatlantic.com/technology/archive/2021/06/the-internet-is-a-collective-hallucination/619320/

- "38% of webpages that existed in 2013 are no longer accessible a decade later"
  https://www.pewresearch.org/data-labs/2024/05/17/when-online-content-disappears/

Apple Daily in HK (and TW!)

https://goodbye.appledaily.com/

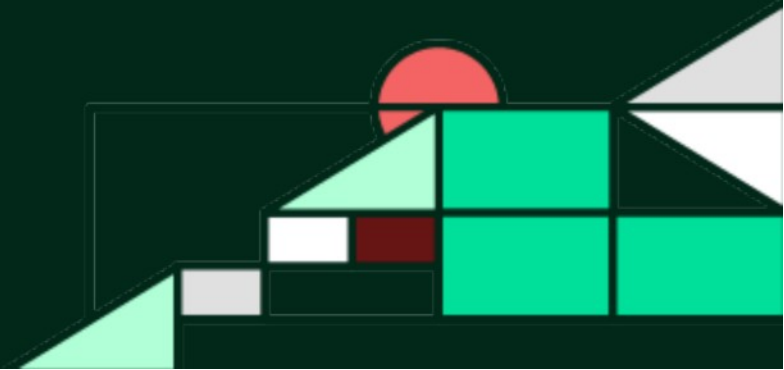https://web.archive.org/web/20210623204728/https://tw.appledaily.com/home/

Wikipedia wars: How Hongkongers and mainland Chinese are battling to set the narrative

https://hongkongfp.com/2021/07/11/wikipedia-wars-how-hongkongers-and-mainland-chinese-are-battling-to-set-the-narrative/

The Sunflower Movement Archive
318 公民運動文物紀錄典藏庫

http://public.318.io/

March 18, 2014

- Students and activists started to storm into and occupy the main chamber of Taiwan's Legislature.

- The chamber was transformed into a theater of protest for weeks; events were streamed live.

- The movement had been instrumental in delaying the passing of the Cross-Strait Service Trade Agreement (CSSTA 海峽兩岸服務貿易協議）by the ruling KMT party at the Legislature, and in increasing the public's awareness of various issues in trade negotiations with China.

https://en.wikipedia.org/wiki/Sunflower_Student_Movement

https://zh.wikipedia.org/wiki/太陽花學運
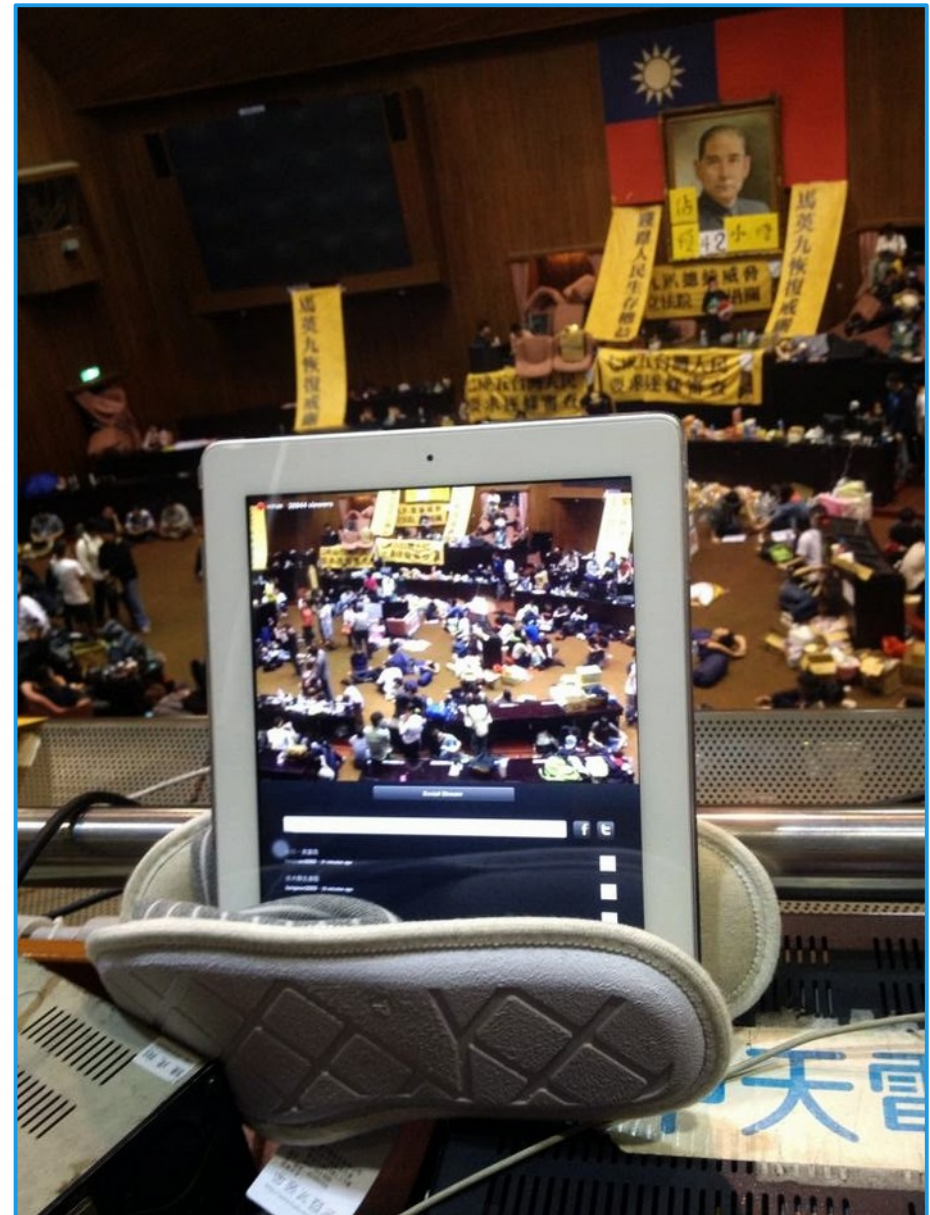
"Occupy Taiwan Legislature by VOA (8)" by Voice of America
https://commons.wikimedia.org/wiki/File:Occupy_Taiwan_Legislature_by_VOA_(8).jpg
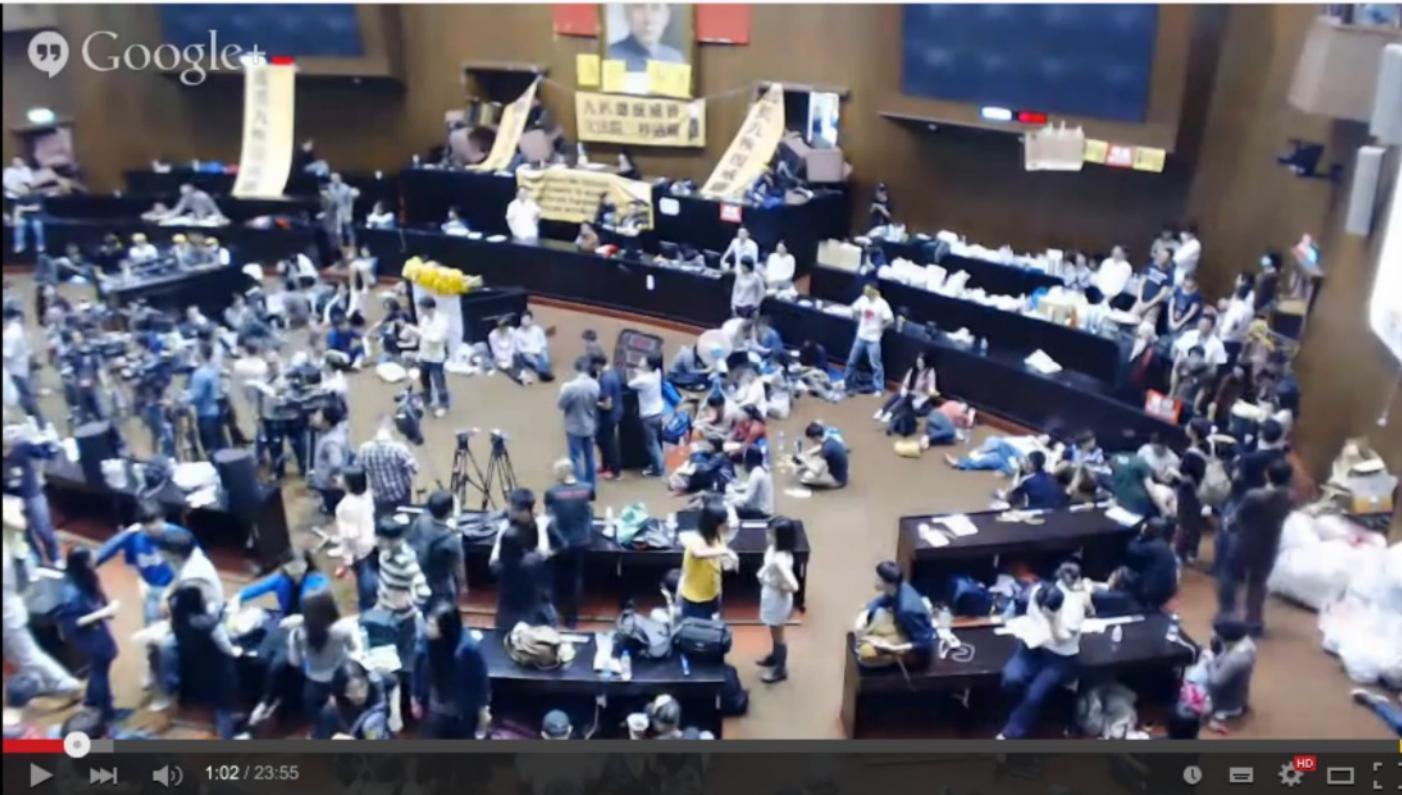
https://www.youtube.com/watch?v=uYcAQ5JS8G0

An Archive for The Movement?

- Historians at Academia Sinica arranged to acquire artifacts from the chamber when students decided to evacuate. Bravo!

- Thousands of art works and notes have been collected and digitized. Is that all?

- What about "born digital" materials?

- Goals: Preserving the artifacts not only for research and for the future, but also for deepening collective memories about this contemporary event. But, how?

香港中文大學

撐台灣 反暴力

public.318.io/12958

12958

12958   12958

12958

關係藏品: 部份   關聯

| 10489 | 10490 | 10491 | 10492 | 10493 | 10494 | 10495 |
| 10496 | 10497 | 10498 | 10499 | 10500 | 10501 | 10502 |

識別號: 12958
主要形式: 平面
形式分類: 海報　黏貼
內容分類: 鼓勵語
產製日期:
產製地點:
測量: 1005x655mm
描述:
紙板,上面黏貼大量的便利貼以及「香港中文大學」的字條,便利貼內容為支持反服貿的鼓勵語。
內容: 香港中文大學
　　　　反暴力 撐台灣
材質: 塑膠瓦稜板
姓名標示值:
權利狀態: 權利狀態不明 ⓘ

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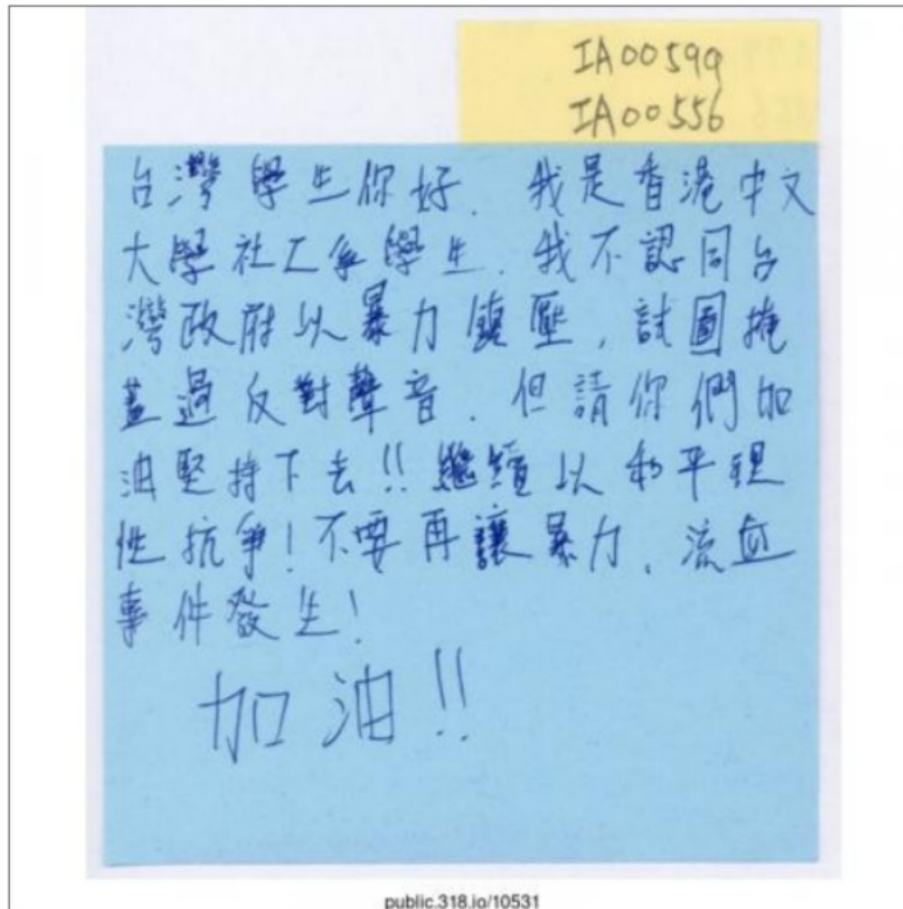
ALL > 10531

10531

識別號: 10531

主要形式: 平面

形式分類: 便利貼 書

內容分類: 鼓勵

產製日期:

產製地點:

測量: 75x75mm

描述:

便利貼, 上有文字「台灣學生你好, 我是香港中文大學社工系學生, 我不認為台灣政府以暴力鎮壓……加油!!」

內容:

台灣學生你好, 我是香港中文大學社工系學生,
我不認同台灣政府以暴力鎮壓, 試圖掩蓋過反對聲音,
但請你們加油堅持下去!!
繼續以和平理性抗爭!不要再讓暴力、流血事件發生!
加油!!

關係藏品: 整體

12958

"… I am a student from the Social Work Department at CUHK …"
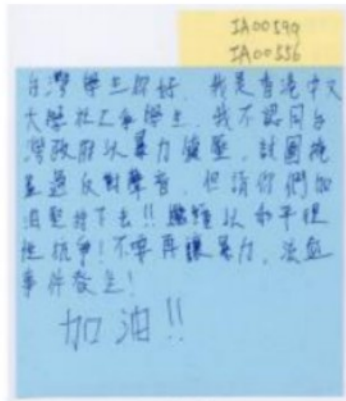
10531

Query the archive by "Social Work Department" (社工系).

Five items are found, including a video.

🏠 ▸ 找 社工系 ▸ 14184

14184

識別號: 14184
主要形式: 數位媒體
形式分類: 影片
內容分類: 實錄
產製日期: 20140321
產製地點: 立法院議場內二樓
測量: 1:00:29
描述:
議場內實況轉播：佔領102小時；陳為廷發言報告狀況，因王金平拒絕故院際會議未召開，稍後會一併發聲明稿；義務律師團發言；自由上台分享（中研院社會所吳介民老師、台北大社工系學生）；庶務報告

內容:
釋出條款: CC0 1.0 🔗
姓名標示值: 張龍僑
權利狀態: 宣告為公眾領域 ❗

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The found video is
a recording of students
from the Social Work Department
（社工系） of The National
University of Taipei.

🖼 瀏覽 ❮ 上一筆 下一筆 ❯ (共5筆，本頁顯示第3筆)

Identification of Works

- The public can search the archive to identify works of their own

- Self certification of authorship

- The copyright status of a work can be:
  - Unknown Copyrights Status

    權利狀態不明

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    已採用公眾授權

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Search

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10470   1

12190   2

12377   3

12398   4

12443   5

12444   6

13122   9

13221   10

13259   11

13544   12

🏠首頁 << < 1 2 > >> 到X頁 到 (共2頁, 22筆, 本頁顯示1-20筆)
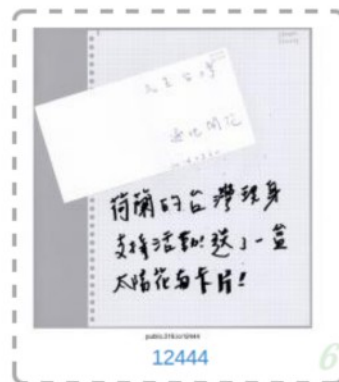
Query the archive by
"Sun~~flower~~ Cake"
（太陽餅）.

Suppose we want to claim
copyright to this cake!

public.318.io/12398

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內容分類: 太陽餅
產製日期:
產製地點:
測量: 210x296mm
描述: 太陽堂太陽餅一塊
內容:
材質: 紙　塑膠
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318學運文物 台史博接手典藏

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2016-11-15

〔記者劉婉君、楊淳卉／綜合報導〕兩年半前受全民關注的三一八公民運動（太陽花學運），相關文物中研院歷經兩年整理，昨移交國立台灣歷史博物館，七千兩百餘件實體物件中，包括當時內部運作關鍵的「值班日誌」，還有過去事件中少有的網路數位媒材資料及數位電子檔案，將由台史博接手保存、典藏與後續的深入研究，為未來子孫留下珍貴文物。

中研院移交318公民運動文物給台史博。（記者劉婉君攝）

中研院整理出7200餘件實物、網路資料

移交的文物中除了關鍵的值班日誌，還有書信、民眾為參與者加油打氣的便利貼、抗議標語、海報、布條、文宣等，由中研院台灣史研究所所長謝國興代表移交台史博館長王長華，文化部文化資源司長陳登欽也到場見證。由於數量龐大，台史博預估，所有文物僅清潔、入庫、上架，就約需兩年時間才能完成，將借助大數據分析協助整理。

台史博估花2年時間才能入庫、上架

過去兩年，中研院已清點、記錄，並完成「三一八公民運動文物紀錄典藏庫簡述」（http://public.318.io/about）及「三一八公民運動」（http://expo.318.io/），於網路平台公開。台史博昨也以「為明日收藏：三一八公民運動當代典藏」為題舉辦座談會，正

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55	18232	佐瑪	週一, 2015-11-02 12:03	開放
54	18184	佐瑪	週一, 2015-11-02 12:02	開放
59	18157	Joanna Y. C.	周日, 2016-05-22 02:30	不開放
53	18098	佐瑪	週一, 2015-11-02 12:02	開放
52	18069	佐瑪	週一, 2015-11-02 12:01	開放
51	17843	佐瑪	週一, 2015-11-02 12:00	開放
50	17820	佐瑪	週一, 2015-11-02 11:59	開放
49	17804	佐瑪	週一, 2015-11-02 11:58	開放
32	17770	輔大基法人權讀書會	二, 2015-10-27 02:15	開放
48	17637	佐瑪	週一, 2015-11-02 11:58	開放

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LIVE!直播!大腸花垃圾話論壇! 全民來開幹!

27:19 / 5:18:13

LIVE!直播!大腸花垃圾話論壇! 全民來開幹!

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20874

識別號 identifier: 20874
主要形式 mainformat:
數位媒體 digital media
形式分類 format_category: 影片 video
內容分類 content_category:
實錄 documentary film
所屬事件 event:
大腸花垃圾話論壇 Sunflower Trash Talk Forum
產製日期 created_time: 20140419
產製地點 created_place: 台北賓館
測量 measurement: 5:49:31
描述 description:
民眾輪流上太陽花垃圾話論壇抒發個人的不滿及看法。
內容 content:
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36652

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形式分類 format_category:
照片 photograph
內容分類 content_category:
照片 photograph
產製日期 created_time: 04/09/2014
產製地點 created_place:
中山南路・立法院大門口
測量 measurement: 4912x3264pixels
描述 description: 大腸花
「臺獨機關槍」李柏璋
內容 content:
釋出條款 license: CC BY-ND 4.0 ⏵
姓名標示值 license_note: 黃恐龍
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🌐 2014年 3月 29日 ×   +

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🏠 ❯ 2014年 3月 29日（黃恐龍）

2014年 3月 29日（黃恐龍）

這一天，黃恐龍從氣象預報得知降雨機率很高，擔憂立法院現場以紙材質為主的抗爭創作多半會被雨水破壞，便即早到現場記錄抗爭創作，盡可能用影像保留住每一幅創作的完好模樣。抱持著使命感的黃恐龍，在這一天拍下一千一百多張照片，趁著下午陽光普照，他詳細地記錄目光所及的所有抗爭創作，並給予多張特寫。與前幾天多半是晚間拍攝的照片相比，這一天的成果也更好。隔天就是3月30日，反服貿運動的主導團體預定舉辦「330凱道遊行」的日子。黃恐龍在現場各個物資站、帳篷等抗爭者聚集點，看見抗爭者積極籌備要在遊行使用的文宣跟藝術創作。3月27日在現場由滅火器樂團教唱，後來爆紅成為318反服貿運動代表性歌曲的《島嶼天光》，從曲名到歌詞都開始進入現場的抗爭創作中，成為臺灣人記憶中的一部分。晚上真的下起大雨，黃恐龍對自己在這之前就到現場作了詳細紀錄而感到慶幸。

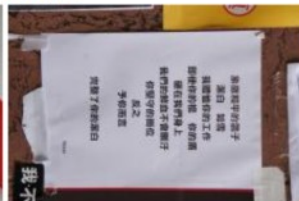|	
識別號 identifier	24618
發布日期 release_date	2020/12/03
發布者 publisher	318公民運動文物紀錄典藏庫 public.318.io
姓名標示值 license_note	受訪者/黃恐龍訪談、文稿著作/曾沅芷
授權條款 license	CC BY-ND 4.0

23469   23470   23471   23472   23473

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24614 24615 24616 24617
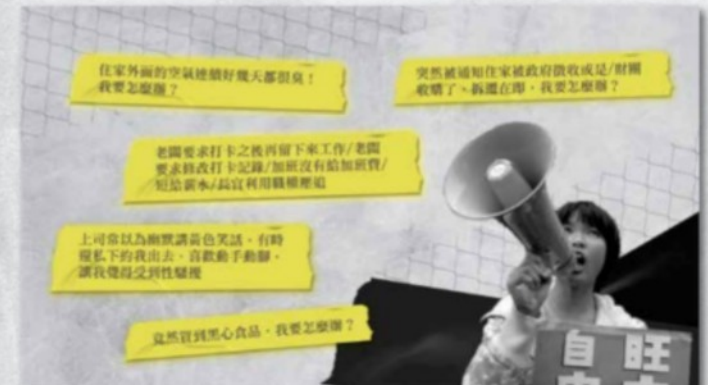
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Social Movements in Post-War Taiwan @ NMTH
迫力．破力：戰後臺灣社會運動特展 (2019-05 – 2020-05)

隠されている女性たちに注目し、彼女らはどのように語られているか、さらにどのように自分自身の位置付けについて語っているのかを、次章以降で分析する。

3 ひまわり運動と女性像

本章では台湾の学術研究機関「中央研究院」によって保存されるひまわり運動創作物アーカイブ『318公民運動文物紀録典藏庫（318 Civil Movement Archive）[8]』をデータとして、ひまわり運動期間に創作された創作物に焦点を当て、ひまわり運動における「女性像」が、いかに描かれているのかを考察する。そのうえで、9名のひまわり運動女性参加者にインタビュー調査をおこない、彼女たちの社会運動への参加経験についてどのような認識を行っているのかを分析する。

3.1 ひまわり運動を象徴する女性像

前章でも述べたが、「祝祭性」という性質を持つひまわり運動の空間では、日々大量の創作物が生み出されていた。その様子について、港は「運動への参加者、支援者が増加するとともに、街路にはさまざまな文字が溢れ出ていった。……群衆は文字の群衆を生み出すからである」[9]（港 2014: 190）と述べていたが、港が指す「文字」とは、「Word」が意味するものに限定されるわけではない。実際に、街路にあふれていた「文字」の形式は、現場で創り出されるモノや創作品、さ

アーカイブに保存
アーカイブに関する
によれば、多くの
ままアーカイブに
が自分の創作に
きるように、創作
た際に明かされた
チエンジンに紐づ
の情報は作品形式
大きさ、作品の内
記載されコード化されている。つまり、このアーカイブの利用者は、コード化された情報にヒットする任意のキーワードを入力すると、この作品に辿り着くことができる仕組みとなっている。

このような膨大な情報群のなかで、本稿はとりわけ「台湾」に関連する1,000件の作品に焦点を当てる。「台湾」に関連する創作に注目する理由は、前章でも述べたように、ひまわり運動の発端が中国との間の政治関係にあったと見られるからである。さらに、この運動の遠因としては、政治経済面での「中国依存」だと指摘されている（蔡宏政[12] 2016; 呉介民・廖美[13] 2016）。つまり、ひまわり運動においては「台湾対中国」という図式が構築され、（中国に対する）「台湾」は重要なシンボルとして認識されていると考えられる。

従来、台湾における政治活動や社会運動は、しばしば「我々台湾人は、台湾という土地に育てられてきた」ということを強調し、「台湾」を母親のイメージに関連づけてきた（黄恐龍[14] 2014: ...）り運動において、

作品のなかには書
様々な形式がある。
援メッセージもあ
もある。その多様
の花」（26点）、「台
1点）のイメージ
できる。では「ひ
んだ「ひまわりの
映された「台湾の
「女性」イメージ

「我們分析 318 公民運動文物紀錄典藏庫（http://public.318.io/about） 中關於「書寫」的 4000+ 多筆記錄，其中絕大多數是支持者寄來的明信片，其中主要發現：…

\# 大陽花運動的群眾心理學
\# 318 運動資料庫是寶藏
\# 以下是論文出版項，要文章的請私訊…」

「我剛剛試著搜尋了一下典藏庫，已經看得到圖片了！鬆了一口氣。

其實相關的研究我已經在日本發表了兩篇論文與數個研討會發表。多虧了資料庫的豐富資訊，可以讓我從中發現許多有趣的面向。」

Figure 2.3 A Postcard from Japan (#20452, http://public.318.io/, accessed 17 October 2018)

Japanese, showing their international solidarity with Taiwanese protestors amounted to a declaration of their heartfelt gratitude.

There exist some interesting differences between domestic writings and those that came from Hong Kong and Japan. In terms of citations of external reality, international writers tended to focus more on state violence or the use of force by police (16.7%) than the domestic writers (5%). It is possible that international sympathizers were more influenced by the news reports of dramatic incidents, whereas domestic participants and supporters had more on-the-ground understanding so that they turned
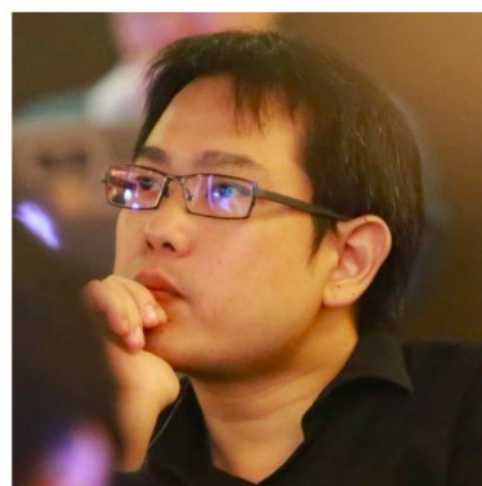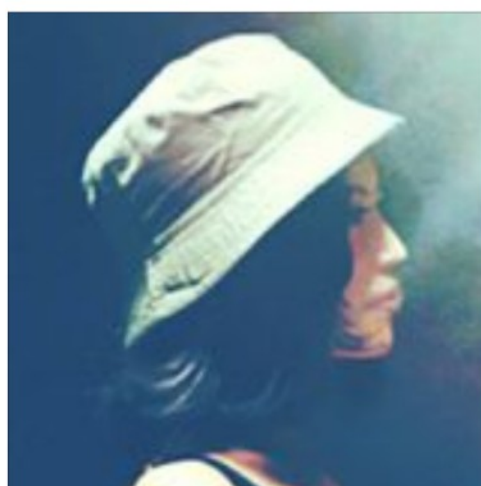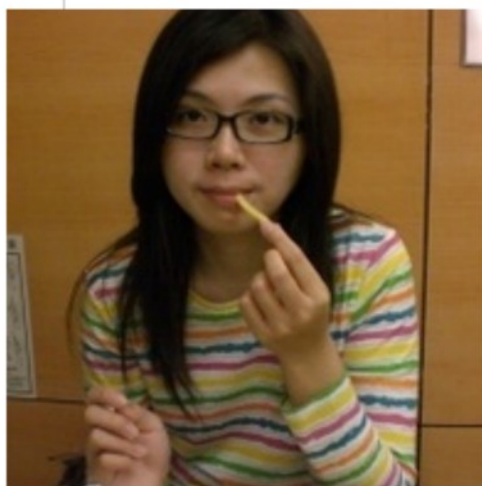
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801 views 23 hours ago

318運動期間，鏡頭聚焦在議場內兩位學生領袖。實際上，當時議場內自發參與的工作人員高達350人，熱情的民眾和學生依各自專長投入物資、糾察、翻譯、資訊等不同工作小組，運作儼然是個小政府。其中，參與過大小抗爭的黃燕茹因為認識各路社運青年，成為現場的「八門提督」，負責鎮守議場出入。劉李俊達早從樂生和野草莓運動就參與抗爭，組織經驗豐富，被推舉為工作會議召集人， ...more
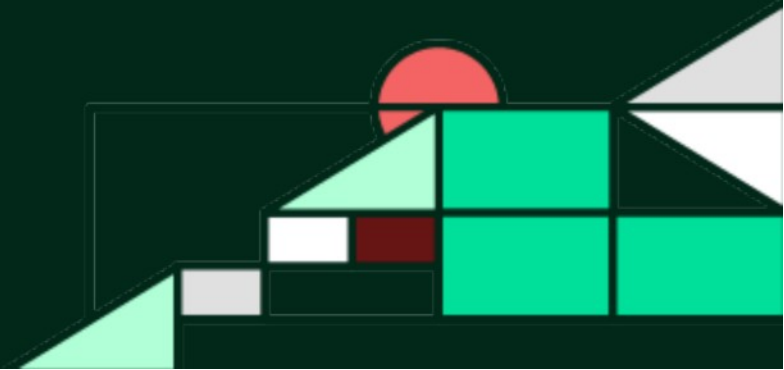
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https://www.youtube.com/watch?v=ijo4Np3VJYM

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https://th.covid19.commons.tw/

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描述 Description:
疫期心情

2020-03-28

前天晚上到研究院的餐廳吃飯，服務員跟用餐的人數差不多，
總共大概二、三十人。冷冷清清。居家檢疫、居家隔離不再是
陌生的語詞；有故事有細節，來自體驗中的同事朋友。遠距工
作與線上會議是常態。通勤上班必備口罩，有人選擇開車，比
較自在。生活緩慢轉向，不熟悉也要適應。

電話會議中，在歐洲的與會者好幾天沒出門了。有位說他自己
應該得了病毒，從身體狀況和人際網絡，他如此推斷。大家請
他保重。認識的人當中，首位得到病毒，另位這樣說了。我頓
了一下，的確他也是我所認識的第一位感染者。病毒若是透過
網路傳遞，他將是我的R0。

四月初的「面對面」工作會議現在當然是不用開了。改成四天
舉行四次線上會議，一次兩小時。這國際組織的執委會，成員

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#COVIDMEMORY

Sewing masks

Sun, Apr 12, 2020 — by **Made by Fredke**

Steinfort, Capellen, Luxembourg

corona-memory.ch

Auch Statuen wollen geschützt sein

OBJEKT

Titel
Auch Statuen wollen geschützt sein

Zusammenfassung
Aktion der Stadt Würzburg: "Mit klarem Kopf geniessen –
Corona vermeiden" – Alte Mainbrücke

Datum   January 16, 2021

Thema   public
                                   health

Sprache   de

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23.56781,120.30464 ↗
雲林縣北港鎮 內門鴨母寮興安宮

記錄者 Recorder: 小強

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描述 Description:

疫情當下，大多進香團取消或延期，但仍有進香團維持進香之路，甚至也因為這樣，難得重現了最傳統的進香方式。內門鴨母寮興安宮以香擔挑著媽祖的方式到北港進香。

標籤 Tags:

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Please share your story about the impact of Covid-19 by filling out this page. (Haga clic acá para español**.)** We accept all sorts of materials into the digital archive, including textual stories and digital objects—images, video, audio interviews, tweets, Facebook posts, Instagram or Snapchat memes, PDFs, screenshots of the news and emails. We accept anything that describes the pandemic and speaks to paradoxes of the moment. Imagine, as we are, what future historians might need to write about and understand this historical moment.

If you are sharing an audio or video interview or oral history, we recommend sharing via this Submission Form.

The best stories speak personally about a moment or to reflect your thoughts on the images or audio files that

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HISTORY NOW
The Pandemic Diaries Project

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As of July 9, 2021, the Pandemic Diaries project is no longer collecting submissions.

Thank you to all who participated in this project!

Over the next several months, the Library will review, preserve, and process each submission. When that is complete, the Pandemic Diaries collection will be made accessible to the public.

If you have any questions about the project or your submission, please email pandemicdiaries@nypl.org.

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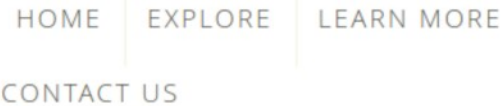
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Novel Coronavirus (COVID-19)

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Archived since: 二月, 2020

Description: A collection created by the Content Development Group of the International Internet Preservation Consortium in collaboration with Archive-It to preserve web content related to the ongoing Novel Coronavirus (Covid-19) outbreak. Identification of seed websites and initial web crawling began in February 2020, and the collection will continue to add new content as needed during the course of the pandemic and its containment. High priority subtopics include: coronavirus origins; information about the spread of infection; regional or local containment efforts, including vaccine development and implementation of vaccinations; medical and scientific aspects; social aspects; economic aspects; and political aspects. Websites from anywhere in the world and in any language are in scope.

Subject: Science & Health, Spontaneous Events, Epidemics, Coronavirus infections, COVID-19 (Disease), COVID-19 Pandemic, 2020-

Creator: International Internet Preservation Consortium

Collector: International Internet Preservation Consortium

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COVID19

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台義交流：「記疫」成果獲刊於義大利雜誌

2021-07-12

Archiving COVID-19 Memory Websites

Contributors & Users

COVID-19 Images and Stories

Drupal

media / text

Content Management System

collection export → **Memory Institution** (National Museum of Taiwan History 國立臺灣歷史博物館)

collection export / import → **omeka** / **Collection Management System**

dataset export / import

Community Webs

website snapshot

ARCHIVE-IT / **Internet Archive**

WARC collection

depositar 研究資料寄存所 / **Research Data Repository**

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https://pid.depositar.io/ark:37281/k56715z7r

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ARCHIVE-IT

Internet Archive

WARC collection

depositar 研究資料寄存所

Research Data Repository

omeka

Collection Management System

61

https://pid.depositar.io/ark:37281/k56715z7r

Planning for Long-Term Access to COVID-19 Memory Websites

https://archive-it.org/blog/post/planning-for-long-term-access-to-covid-19-memory-websites/

- Make a **virtual machine** image of the website server
  - Need special skills to maintain as technologies will have moved on; not easily accessible; 3rd party services?
- Export website contents to **collections management systems**
  - Provenance information (of both the collections and the website) shall not be lost in the process
- Repackage the website collections as **research datasets**
  - Metadata about (the items in) the collections shall be prepared and aligned with the standards and formats used by the repositories
- Save the website pages as **archived snapshots**
  - Use Internet Archive's Wayback Machine and the Archive-It web archiving services; capture only the public-facing side of the website however

depositar 研究資料寄存所

https://data.depositar.io/
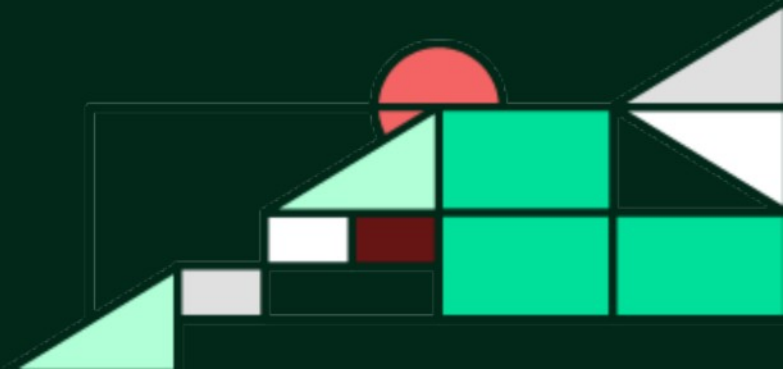
Why Put Your Data In A Public Repository?
您的資料為何要放在開放的儲存庫?

- Data can be discovered, cited, preserved, and reused

- Keep good metadata (data about data) and provenance

- Practice good research data management

- Required when articles are published; data publications

- Required by research project funders

- Collaborative data production and use; "Open Science"

- Novel applications and services via data APIs (Application Programming Interface) of open repositories

- EMBL-EBI (European Molecular Biology Laboratory – European Bioinformatics Institute) @ re3data

- GBIF (Global Biodiversity Information Facility) @ re3data

- Humanities Commons (Commons Open Repository Exchange, CORE) @ re3data

- Pandora @ re3data

- Crystallography Open Database @ re3data

- PANGAEA (Data Publisher for Earth and Environmental Science) @ re3data

- GitHub @ re3data

- Zenodo @ re3data

- depositar 研究資料寄存所 @ re3data

A Sample Dataset

https://pid.depositar.io/ark:37281/k5d515442

A tour of the dataset

- Long description of the dataset and the project

- Data and (external) resources

- Tags and Wikidata keywords

- Basic information
- Spatio-temporal information
- Management information

- License
- Citation snippet
- Data endpoints
  - JSON-API
  - RDF serializations

Coral Reef Soundscapes off Sesoko Island, Okinawa, Japan

Followers

0

🏢 **Project**

Ocean Biodiversity Listening Project

Project Website The ocean is full of sounds that are generated from geophysical events, marine animals, and human activities. By using a hydrophone (a microphone for underwater... read more

Dataset   👥 Topics   ⏱ Activity Stream   ⑂ History

Coral Reef Soundscapes off Sesoko Island, Okinawa, Japan

This dataset is an archive of audio data of shallow-water and upper-mesophotic coral reefs off Sesoko Island, Okinawa, Japan. Python codes to visualize the audio data were also provided in a notebook based on Google Colab.

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(1) Duty Cycle: continuous. (2) Sampling Rate: 44.1kHz. (3) Channels: 2. (4) File Format: MP3 (128 kbps). (5) Audio Gain: High. (6) High Pass Filter: Off.

Field Deployment

At each recording site, one AUSOMS-mini stereo recorder was fixed to a cement

68

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Field Deployment

At each recording site, one AUSOMS-mini stereo recorder was fixed to a cement block at the seafloor. Each deployment lasted for a maximum of 29 days. Deployment and recovery of recorders were conducted by divers.

Data Processing

Audio recordings generated by AUSOMS-mini recorders were saved in MP3 format. Each MP3 is about 8-hour long and do not have a time stamp on the file name. To facilitate data management, we segmented the 8-hour long MP3 into WAV files of 5-min duration.

We used the LTSA_gui to generate long-term spectrograms (LTS) and save the LTS in mat files. Each mat file contains median-based LTS and mean-based LTS. Median-based LTS was obtained by measuring median power spectral densities within each 5-min segment. Mean-based LTS was obtained by measuring mean power spectral densities within each 5-min segment.

Associated Publication

Tzu-Hao Lin, Tomonari Akamatsu, Frederic Sinniger, Saki Harii (2020) Exploring coral reef biodiversity via underwater soundscapes. Biological Conservation, 253: 108901.

Data and Resources

Audio data 🔥
A link to a shared Drive folder of underwater recordings (WAV) and long-term...
Explore ▾

Long-term spectrogram of Site A
A mat file contains the median- and mean-based long-term spectrograms.
Explore ▾

Long-term spectrogram of Site B
A mat file contains the median- and mean-based long-term spectrograms.
Explore ▾

Long-term spectrogram of Site C
A mat file contains the median- and mean-based long-term spectrograms.
Explore ▾

Codes for data access and analysis 🔥
Explore ▾

Sidebar

↗ Social

🐦 Twitter

f Facebook

🔒 **License**

CC-BY 4.0 OPEN DATA

🔑 **ARK Identifier** Beta ⑦

ark:37281/k5d515442

⎘ **Cite as**

American Psychological Asso... ▾

Tzu-Hao Lin, Tomonari Akamatsu, Frederic Sinniger, Saki Harii. (2022). Coral Reef Soundscapes off Sesoko Island, Okinawa, Japan (Version 2022-07-11T10:14:54.103158) [Data set]. https://pid.depositar.io/ark:37281/k5d515442

📋 Cut to clipboard

🌐 **Dataset extent**

本部町

172

244

Map tiles & Data by OpenStreetMap ↗, under CC BY-SA ↗

69

Tags

Acoustic diversity   Acoustic habitat   Coral reef   Mesophotic corals

Noise   Ocean sound   Remote sensing   Underwater soundscape

Wikidata Keywords

soundscape   coral reef

Basic Information

Data Type	- Source code - Audiovisual data - Scientific and statistical data formats
Language	English (eng)

Spatio-temporal Information

Temporal Resolution	Daily
Start Time	2017-05
End Time	2018-07
Spatial Coverage	show more
X.min	127.8553390572779
X.max	127.88097380893306
Y.min	26.630362980584657
Y.max	26.68047930832328

Management Information

Author	Tzu-Hao Lin, Tomonari Akamatsu, Frederic Sinniger, Saki Harii
Contact Person	Tzu-Hao Lin

Map tiles & Data by OpenStreetMap ,

under CC BY-SA .

⧉ Other Access

The information on this page (the dataset metadata) is also available in these formats:

</>JSON-API

RDF serializations based on DCAT 2: Beta

</>JSON-LD   </>Turtle   </>XML

via the CKAN API

70

標籤

Acoustic diversity   Acoustic habitat   Coral reef   Mesophotic corals

Noise   Ocean sound   Remote sensing   Underwater soundscape

Wikidata 關鍵字

聲景   珊瑚礁

基本資訊

資料類型	• 原始碼 • 影音資料 • 科學與統計資料
語言	英文 (eng)

時空資訊

時間解析度	日
起始時間	2017-05
結束時間	2018-07
空間範圍	顯示更多
空間範圍.X.min	127.8553390572779
空間範圍.X.max	127.88097380893306
空間範圍.Y.min	26.630362980584657
空間範圍.Y.max	26.68047930832328

管理資訊

產製者	Tzu-Hao Lin, Tomonari Akamatsu, Frederic Sinniger, Saki Harii
聯絡人	Tzu-Hao Lin

Map tiles & Data by OpenStreetMap

, under CC BY-SA .

其他存取方式

此頁面上的資訊 (資料集之後設資料) 也提供以下格式：

</>JSON-API

RDF 串列化輸出 (修改自 DCAT 2)： Beta

</>JSON-LD   </>Turtle   </>XML

經由 CKAN API

71

(1) Duty Cycle: continuous. (2) Sampling Rate: 44.1kHz. (3) Channels: 2. (4) File Format: MP3 (128 kbps). (5) Audio Gain: High. (6) High Pass Filter: Off.

Field Deployment

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Data Processing

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Explore ▾

Codes for data access and analysis 🔥
Explore ▾

Sidebar

⤴ Social

🐦 Twitter

📘 Facebook

🔒 License

CC-BY 4.0 OPEN DATA

🔑 ARK Identifier Beta ⑦

ark:37281/k5d515442

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📋 Cut to clipboard

🌐 Dataset extent

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72

Exploring coral reef biodiversity via underwater soundscapes

Tzu-Hao Lin [a,*], Tomonari Akamatsu [b,**], Frederic Sinniger [c], Saki Harii [c]

[a] Biodiversity Research Center, Academia Sinica, Taiwan
[b] The Ocean Policy Research Institute, The Sasakawa Peace Foundation, Japan
[c] Tropical Biosphere Research Center, University of Ryukyus, Japan

A B S T R A C T

Information on biodiversity is essential to evaluate the ecological status of coral reefs. Sounds produced by reef-associated organisms have been used as a biodiversity indicator. However, the interference from abiotic sounds and the lack of a comprehensive audio library have impeded effective evaluation. This study investigated the application of underwater soundscapes as a remote-sensing method to detect biological and anthropogenic activities. Using techniques including the visualization of long-duration recordings, source separation, and clustering, soundscapes were separated into sounds of anthropogenic and biological sources. Our results revealed the dynamics of biological sounds among coral reefs off Sesoko Island, Okinawa, Japan. Biological sounds were much more prominent in shallow-water reefs than in upper-mesophotic reefs, but their spectral features and compositions differed. The shallow-water reefs were dominated by broadband sounds of crustaceans and low-frequency transient fish calls, whereas the upper-mesophotic reefs were characterized by a diverse array of fish choruses and transient sounds. We also discovered that shipping noise heavily interfered with the soundscapes from the upper-mesophotic reefs and represented an invisible threat to life in the low-light habitat. The applied techniques of soundscape information retrieval revealed the distinct ecological status of coral reefs and the behavior change of sound-producing organisms in high temporal resolution. Implementation of soundscape monitoring can generate ecological information on habitat quality, reef biodiversity, human activities, and their interactions. Global collaboration on underwater soundscapes will establish a data-informed platform and help stakeholders assess the resilience of coral reefs to environmental and anthropogenic stressors.

1. Introduction

Marine ecosystems provide irreplaceable services and currently face significant pressures due to climate change, human disturbance, and excessive use of marine resources. The United Nations has recognized these threats and placed the conservation of marine ecosystems as one of its sustainable development goals (UN General Assembly, 2015). Coral reefs support various social and economic activities, such as fisheries, coastal protection, and tourism, of many maritime tropical and sub-tropical nations (Moberg and Folke, 1999; Barbier, 2017; Spalding et al., 2017; Woodhead et al., 2019). These benefits rely on the abundant biodiversity in coral reefs. However, coral reefs have undergone recurrent high-frequency bleaching episodes over the past 20 years due to increased sea surface temperatures (Hughes et al., 2017, 2018). Therefore, detailed information on the spatiotemporal changing patterns of marine biodiversity and interactions with human activities is crucial for the conservation management of coral reefs.

Biodiversity monitoring in coral reefs remains challenging, partially due to the distinct reef environments and their unique fish assemblages (Pearman et al., 2018; Dumalagan et al., 2019). A comprehensive and long-term assessment of reef biodiversity, environmental characteristics, and human activities may not be feasible because of limited resources for observation and survey opportunities, especially for developing regions or remote reefs. An underwater sensing system capable of monitoring the changing patterns of marine biodiversity, with the ability to diagnose potential risks due to environmental and anthropogenic stressors, is required for establishing management strategies of coral reefs and for providing alerts to the early-warning signs of ecosystem changes (Schmeller et al., 2017; Obura et al., 2019).

A potential solution for such an underwater sensing platform is through monitoring ocean sounds. One autonomous recorder can store long-duration audio recordings, with improved time resolution of

* Correspondence to: T.-H. Lin, Biodiversity Research Center, Academia Sinica, 128 Academia Road, Sec. 2, Nankang, Taipei 11529, Taiwan.
** Correspondence to: T. Akamatsu, The Ocean Policy Research Institute, The Sasakawa Peace Foundation, 1-15-16 Toranomon, Minato, Tokyo 105-8524, Japan.
E-mail addresses: lintzuhao@gate.sinica.edu.tw (T.-H. Lin), akamatsu.tom@gmail.com (T. Akamatsu).

Data availability

The audio dataset used in preparing this paper are available from the corresponding authors on reasonable request. A dataset of the LTS is available on depositar (https://data.depositar.io/en/dataset/coral-reef-sesoko).

CRediT authorship contribution statement

Tzu-Hao Lin: Conceptualization, Methodology, Software, Validation, Data curation, Formal analysis, Resources, Writing – original draft. Tomonari Akamatsu: Conceptualization, Methodology, Resources, Data curation, Writing – reviewing and editing, Funding acquisition. Frederic Sinniger: Conceptualization, Visualization, Investigation, Data curation, Writing – reviewing and editing. Saki Harii: Conceptualization, Investigation, Writing – reviewing and editing, Funding

Coral Reef Soundscapes off Sesoko Island, Okinawa, Japan

Followers

0

🏢 **Project**

Ocean Biodiversity Listening Project

Project Website The ocean is full of sounds that are generated from geophysical events, marine animals, and human activities. By using a hydrophone (a microphone for underwater... read more

| Dataset | 👥 Topics | ⏱ Activity Stream | ⑂ History |

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Data Discovery via Google Dataset Search

https://datasetsearch.research.google.com/search?query=Coral Reef Soundscapes

Coral Reef Soundscapes off Sesoko Island, Okinawa, Japan

Followers

0

📇 **Project**

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Dataset   👥 Topics   🕑 Activity Stream   ⑂ History

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用 Google Dataset Search 尋找資料集

https://datasetsearch.research.google.com/search?query=劉厝溪

https://data.depositar.io/dataset/6ac93

資料與資源

航拍規劃中心線
規劃航線中心線KML檔
➡探索

OAM正射影像連結 (Link to OpenAerialMap)
發布於OAM的正射影像連結 (Link to accessing the ortho-mosaics published on the...
➡探索

2021-04-13 正射影像Google圖磚 (Google Earth tiles)
Google圖磚壓縮檔。解壓縮後，點選開啟資料夾中的kml檔，即可使用Google Earth...
➡探索

2021-04-13 台中市南屯區鎮平溪－劉厝溪航攝影像
中央研究院網格計算中心WebODM計算成果下載連結；建議使用Firefox瀏覽器開啟連結，瀏覽影像2D、3D影像資料。
➡探索

空中360影像
空中360影像Google Street View連結。
➡探索

標籤

南屯區　台中市　地景變遷　筏子溪　都市重劃

Wikidata 關鍵字

正射影像　riverscape　筏子溪　光球　南屯區　無人航空載具　臺中市

OAM 正射影像連結 (Link to OpenAerialMap)

https://map.openaerialmap.org/#/120.62299489974974,24.127955278046894,15/square/13212321130023323/607c4f45bfb5350008e665a2
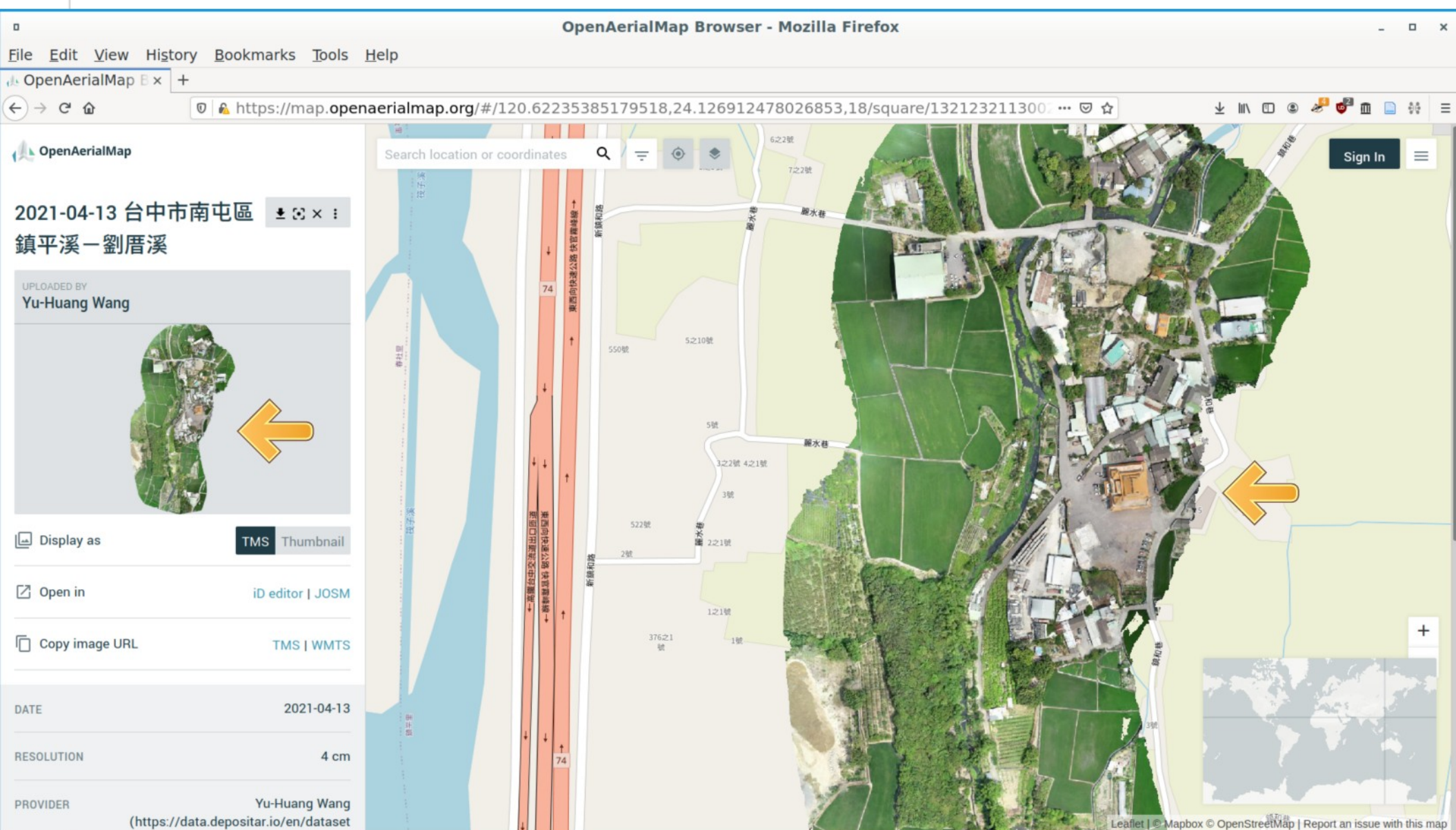
空中 360 影像 (Panoramic Aerial Images)

https://goo.gl/maps/zZZwQ3PkstQzrXYN7

https://data.depositar.io/

depositar
研究資料寄存所

資料集　　主題　　專案　　關於　　支援

Collaborative Badlands | 惡地協作

作者

Collaborative Badlands

☐ 前往網站

⛕ 展示案例包含的資料集

西南惡地點位資料庫

【英國攝影家湯姆生1871台灣線性文化遺產】

☐ 社交

🐦 Twitter

📘 Facebook

Collaborative Badlands | 惡地協作

以台南左鎮為實驗場域，對外延伸至其他惡地形地區，包括台南龍崎、以及高雄田寮、內門等地區，建立地方研究、教學、服務等各項工作。由國立成功大學推動的協力計畫。

A collaborative project at the National Cheng Kung University on the rural regeneration and transdisciplinary research in the Southwestern Taiwan Badlands Region.

☐ 前往網站

https://data.depositar.io/zh_Hant_TW/organization/about/collaborative-badlands-project

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研究資料寄存所

資料集　　主題　　專案　　關於　　支援

🏠 / 專案 / 惡地協作跨領域協作教學研究群 / Collaborative...

⊹ 資料集　　🕓 動態牆　　ⓘ 關於

COLLABORATIVE BADLANDS

惡地協作跨領域協作教學研究群 / Collaborative Badlands Project

惡地協作跨領域協作教學研究群為國立成功大學都市計劃學系與中央研究院人社中心地理資訊科學研究專題中心合作建立之社區地理資訊系統(Community GIS)專案之一部分，主要目的以台南左鎮為實驗場域，對外延伸至其他惡地形地區，包括台南龍崎、以及高雄田寮、內門等地區，建立地方研究、教學、服務等各項工作之資料庫，希望整合既有的資訊、資源與技術，建立在地知識之整合平台，鏈結跨領域跨尺度之成員，促進在地協作交流創新之網絡。
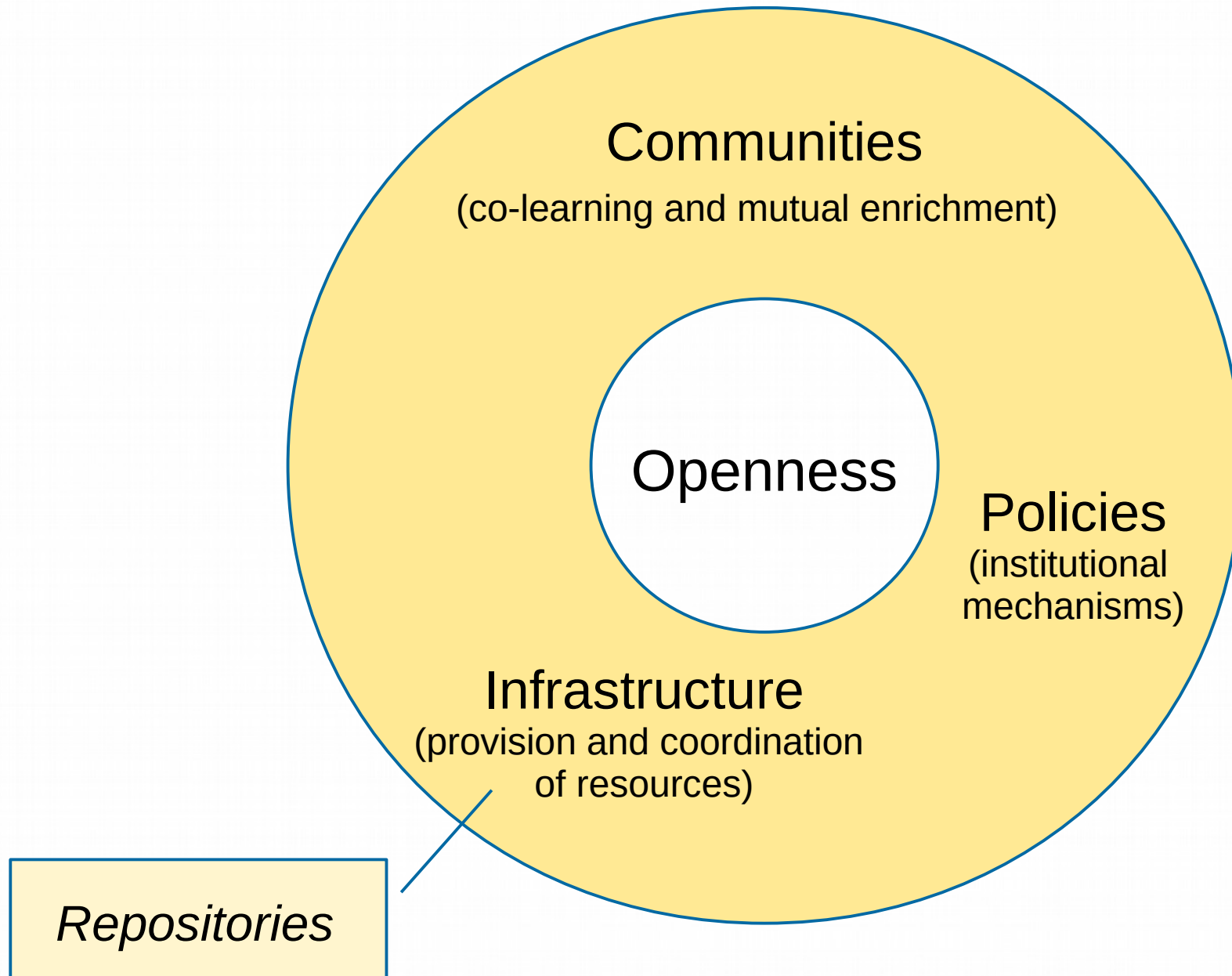
惡地協作跨領域協作教學研究群 / Collaborative Badlands Project

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追蹤者　　　資料集
0　　　　**125**

資料庫內容目前已初步彙整以下三類資料： 1) 以左鎮、龍崎、田寮、內門為關鍵字進行網路搜尋的獲得的二手資料，包括影音、論文、報告、網站等資訊。 2) 國立成功大學惡地協作相關課程參與之學生作品、報告書、以及圖資 3) 歷史照片掃描檔

資料庫內容仍持續建置中，歡迎回饋與協作，若有引用也煩請標註資料原始出處。

相關問題請洽: 國立成功大學惡地協作團隊 collaborativebadlands@gmail.com；國立成功大學都市計劃學系 張秀慈老師 hsiutzuchang@mail.ncku.edu.tw

本資料集建置經費部分由107年行政院農委會水土保持局農村再生創新研究計畫以及109-111年教育部大學社會責任實踐計畫補助

The Roles of Repositories in Open Source/Data/Science…

Communities
(co-learning and mutual enrichment)

Openness

Policies
(institutional mechanisms)

Infrastructure
(provision and coordination of resources)

Repositories

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Our Experience So Far

- Build on Open/Libre Infrastructures
  - CKAN is AGPL 3.0: Our extensions have been contributed upstream
  - Protect our users: Free to host their instances for their own datasets
  - CC licenses, Web standards, Wikidata, …

- Accept Diverse User Communities
  - Different communities have different expectations and needs
  - How about the quality of the deposited datasets and their metadata?

- Adopt Common Vocabularies and Formats
  - Data Catalog Vocabulary (DCAT) and other profiles
  - Formalization of metadata types; data validation and interoperability

- Pooling resources together
  - Binder integration: Resources provided by Academia Sinica Grid Computing Centre

Thank You!

depositar
研究資料寄存所
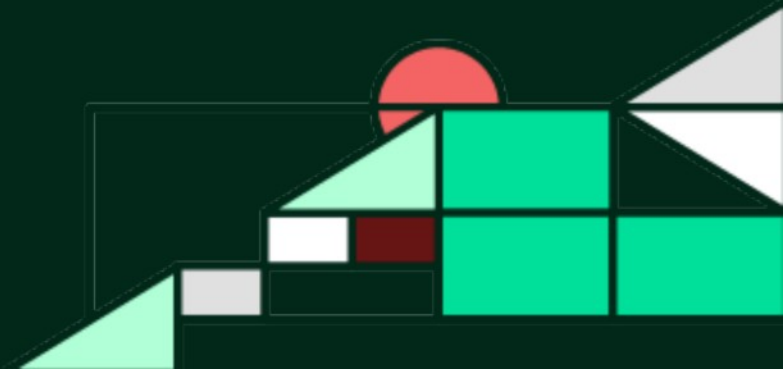
https://data.depositar.io/ 研究資料寄存所
https://rdm.depositar.io/ 研究資料管理推進室
https://lab.depositar.io/ 研究資料寄存所實驗室

data.contact@depositar.io

The *depositar* is a collaboration at the Institute of Information Science, the Research Center for Information Technology Innovation, and the Research Center for Humanities and Social Sciences (GIS Center) in Academia Sinica, Taiwan. The project has been supported, in part, by grants from Taiwan's National Science and Technology Council.
The *depositar* project team: T-R Chuang, M-S Ho, C-J Lee & C-H Ally Wang.

「研究資料寄存所」是中央研究院資訊科學研究所、資訊科技創新研究中心、人文社會科學研究中心（地理資訊科學研究專題中心）的協作專案，部份經費來自台灣國科會的專題研究計畫。
研究資料寄存所計畫成員：莊庭瑞、何明誼、李承鑫、王家薰。

Help Wanted

徵求援手
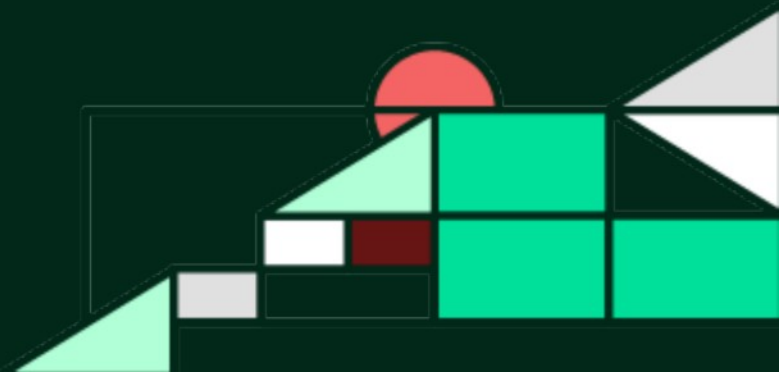
depositar lab 研究資料寄存所實驗室

- What We Do
  - novel research data infrastructures and services
  - digital preservation and data collaboration projects
  - **open source, free culture, FAIR data, ...**

- Funders
  - Institute of Information Science
  - Research Center for Information Technology Innovation
  - National Science and Technology Council

- Partners
  - Center for GIS at Academia Sinica, National Museum of Taiwan History, Taiwan Biodiversity Research Institute, TaiBIF, LTSER Taiwan

- Want to Know More?
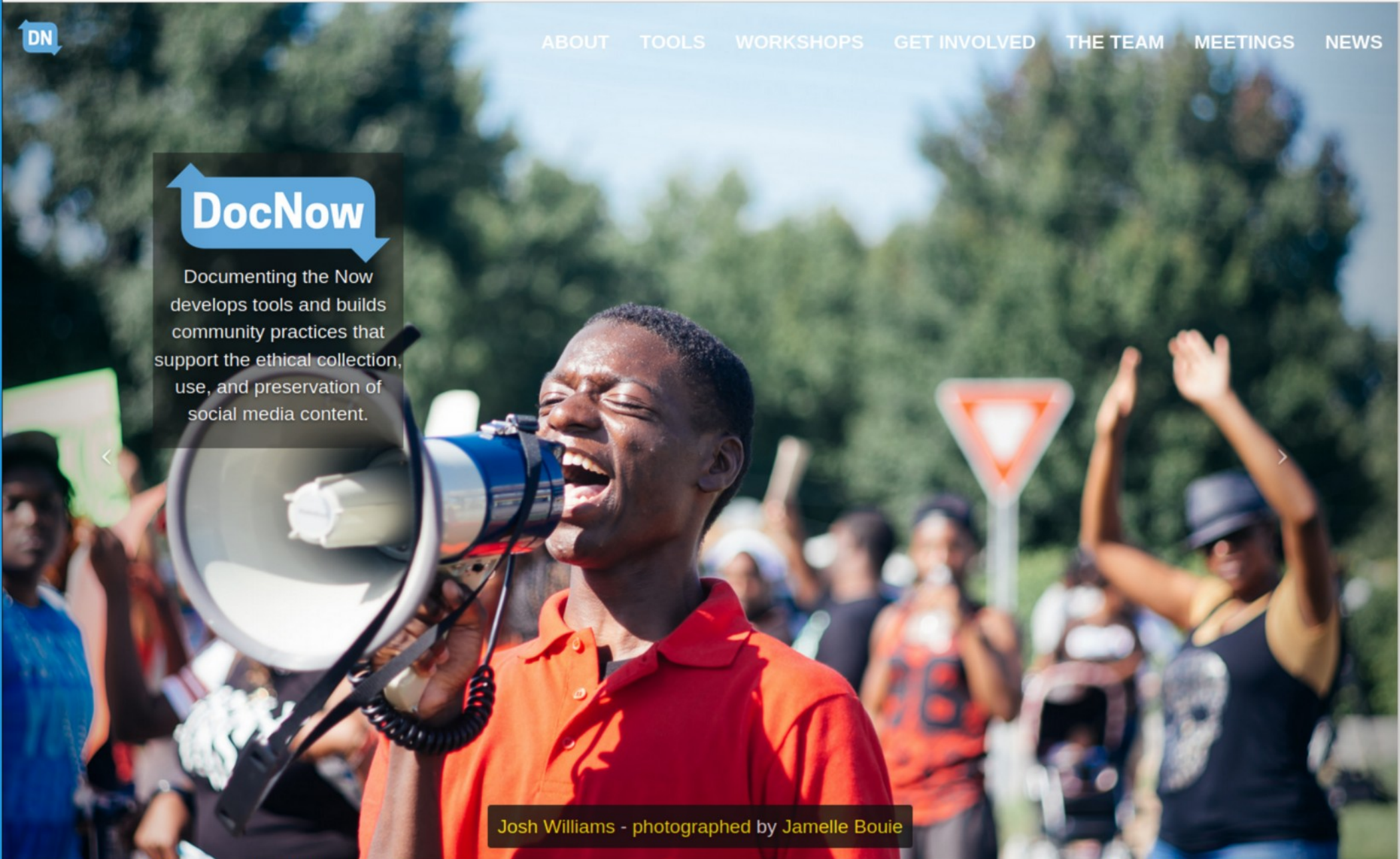 - Year 2023 in Review
    https://lab.depositar.io/news/240501_1/

What about Activist Archiving?
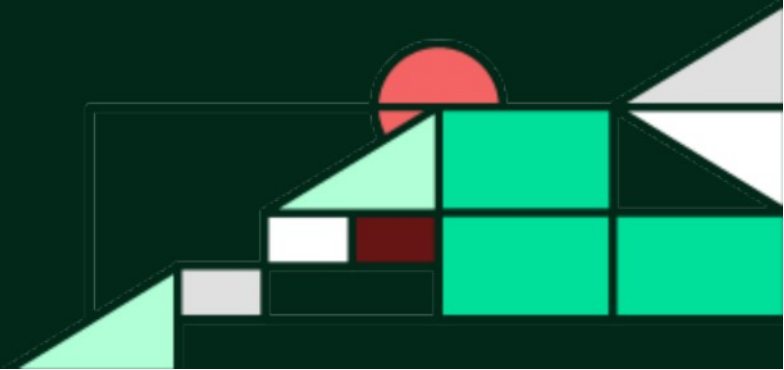
- Activists as Archivists
- Archivists as Activists

- Collection
  - timing and context; decentralized and communal; tools and services
- Preservation
  - Lots Of Copies to Keep Stuff Safe (LOCKSS); maintenance; provenance
- Access
  - copyrights and DRM; paywalled content; emulation and virtualization

- Libraries just are not doing enough; governments are in total ignorance
  - The Internet Archive (by a budget of 36 million, 2019) has been under attack

- *The Amnesiac Civilization* (keynote by David Rosenthal @ PNC 2017)
  - https://blog.dshr.org/2017/11/keynote-at-pacific-neighborhood.html

DocNow
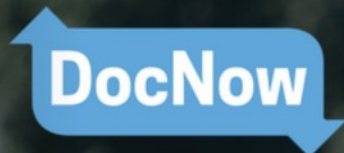
Documenting the Now develops tools and builds community practices that support the ethical collection, use, and preservation of social media content.

Josh Williams - photographed by Jamelle Bouie

Documenting the × +

https://www.docnow.io

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https://cdha.cuny.edu/

CUNY DIGITAL HISTORY ARCHIVE

A participatory project to collect and preserve the histories of the City University of New York

HOME   BROWSE ⌄   PARTICIPATE   EVENTS ⌄   ABOUT US ⌄

Why the History of CUNY Matters

The history of CUNY is the history of marginalized communities in New York City fighting for equitable access to quality higher education. CUNY's historic mission to educate "the children of the whole people" is sustained by a vibrant community of educators and activists that work to create liberatory spaces through landmark experiments in democratic education. The CUNY Digital History Archive is a participatory project, a *counter-institutional archive* that centers the experiences of students, workers, faculty, community residents, retirees, and alumni. We take an active approach to documenting CUNY history from the ground up, because we believe that today's students deserve to know the people's history of the people's university.

Learn more

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New Bloom
May 23 at 4:00 AM ·

Ahead of tomorrow's protest outside of the legislature against the KMT and TPP's efforts to expand prosecutorial powers, we are putting a call out to readers to contribute their photo and video documentation at this Google form. This is in the interests of documenting the demonstration, which is expected to be a large-scale one.

https://docs.google.com/.../1FAIpQLScLARXg94.../formResponse

Photo Credit: Em Gunter

up for Facebook to connect with friend…

Log In   or **Create ne…**

Daybreak Project – Voices Of The Sunflower Movement — Mozilla Firefox

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Daybreak Project ×   +

← → C   🛡 https://daybreak.newbloommag.net   90% ☆

DAYBREAK

HOME
ABOUT
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INTERVIEWS
TIMELINE
MOVEMENT FEATURES
DISCOURSE
HISTORY
MAP
RIOTER'S DICTIONARY
TRANSLATIONS
THEORETICAL REFLECTIONS
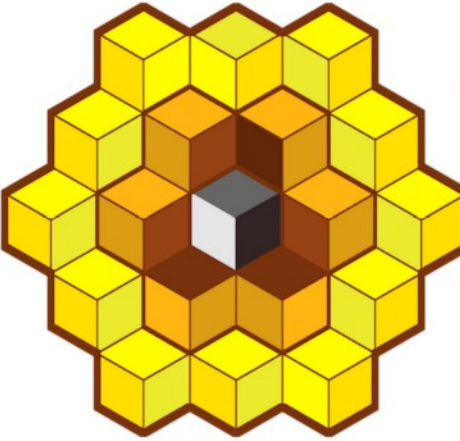SOURCEBOOK

ABOUT

What Is The Daybreak Project?

The Daybreak Project is an interactive encyclopedia and oral history archive of the 2014 Sunflower Movement.

The Sunflower Movement has been a pivotal event thus far in the history of Taiwan in the 21st century and it deserves to be recorded in history in as detailed a manner as possible. To that end, the Daybreak Project in its current state is over 400,000 words, which would be over 1,000 pages if printed.

Explore the menu to see the contents of the Daybreak Project. The website is designed to be used on desktop, so not all features may be available on mobile.

Learn More

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