



IUUG 24.

TOGETHER WE DRIVE INNOVATION

March 25 - 27, 2024 | Detroit, Michigan

Tales from the Dark Side

Lessons Learned from a Life in Shadow Libraries

Daniel Messer
Library Systems & Services



IUG 24

TOGETHER WE DRIVE INNOVATION

March 25 - 27, 2024 | Detroit, Michigan

cyberpunklibrarian.com/iug2024

Notes, links, extras, and miscellany

@cyberpunklibrarian@hackers.town





IT'S
ALWAYS
SUNNY IN
PHILADELPHUS

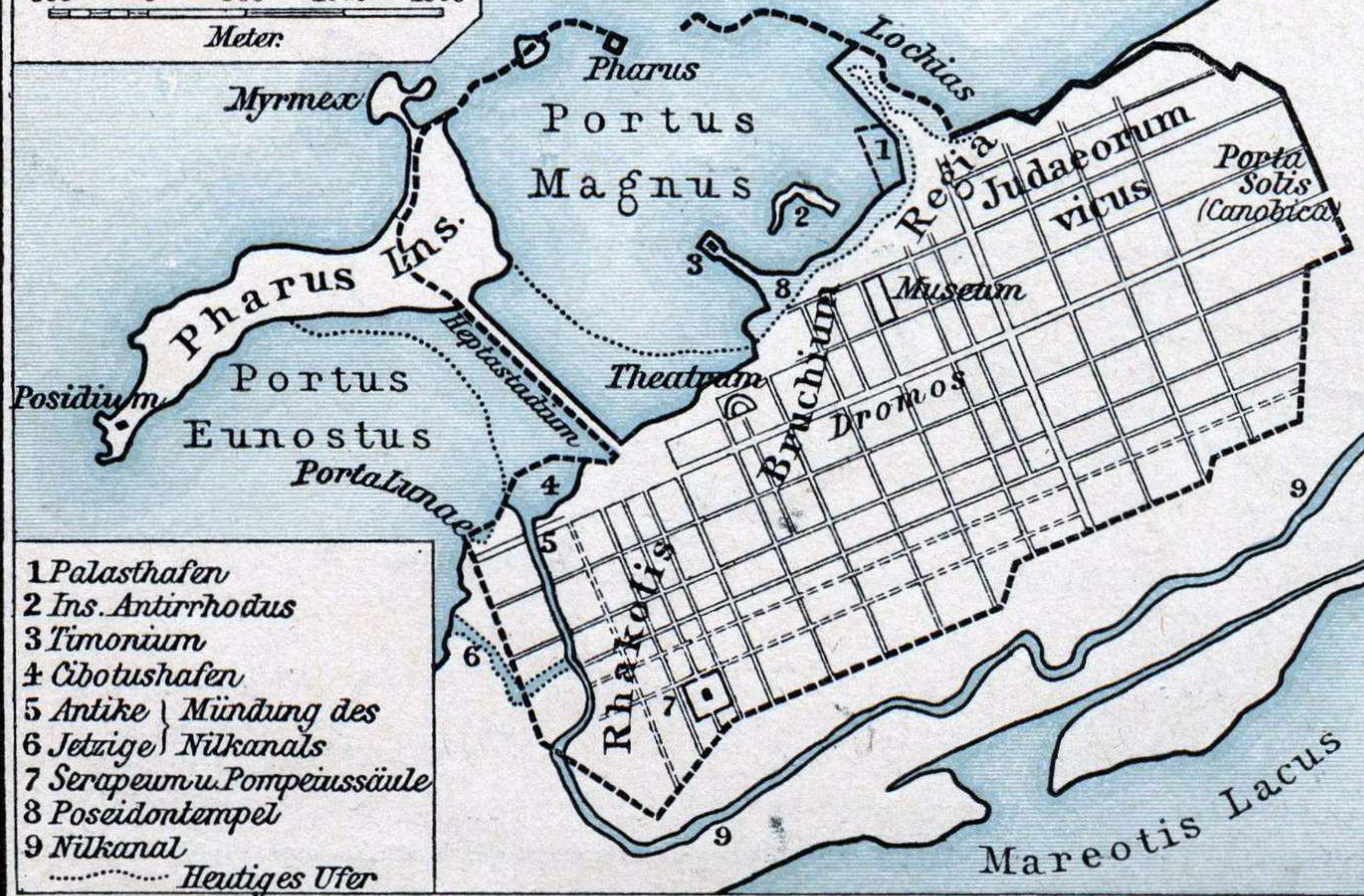
ALEXANDRIA

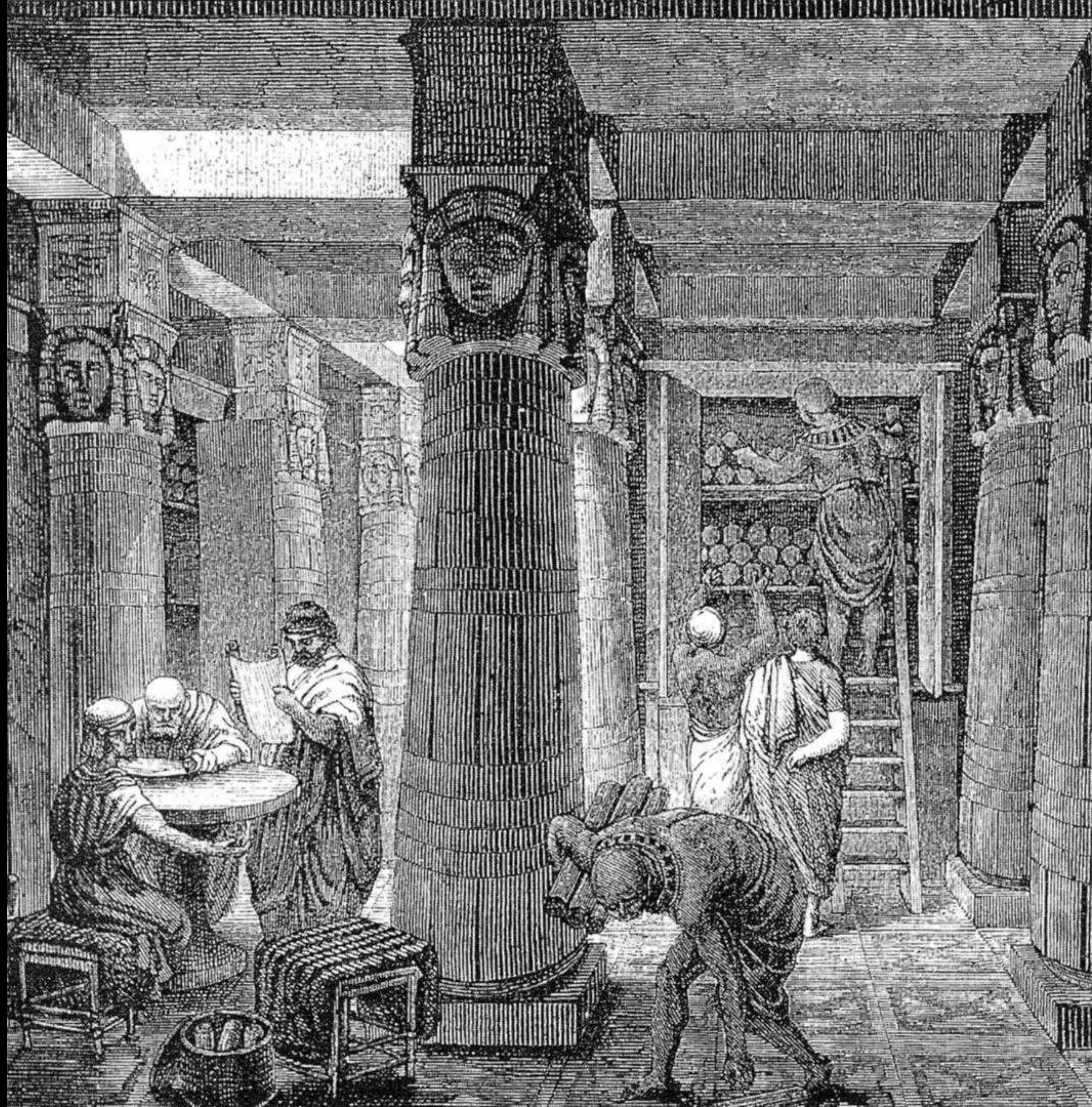
nach O. Puchstein in Pauly, Real-Encycl.

Maßstab 1 : 100 000.

500 0 500 1000 1500

Meter





**Information should be free
and it should belong to me**



Credit: Arizona Presenter's Showcase

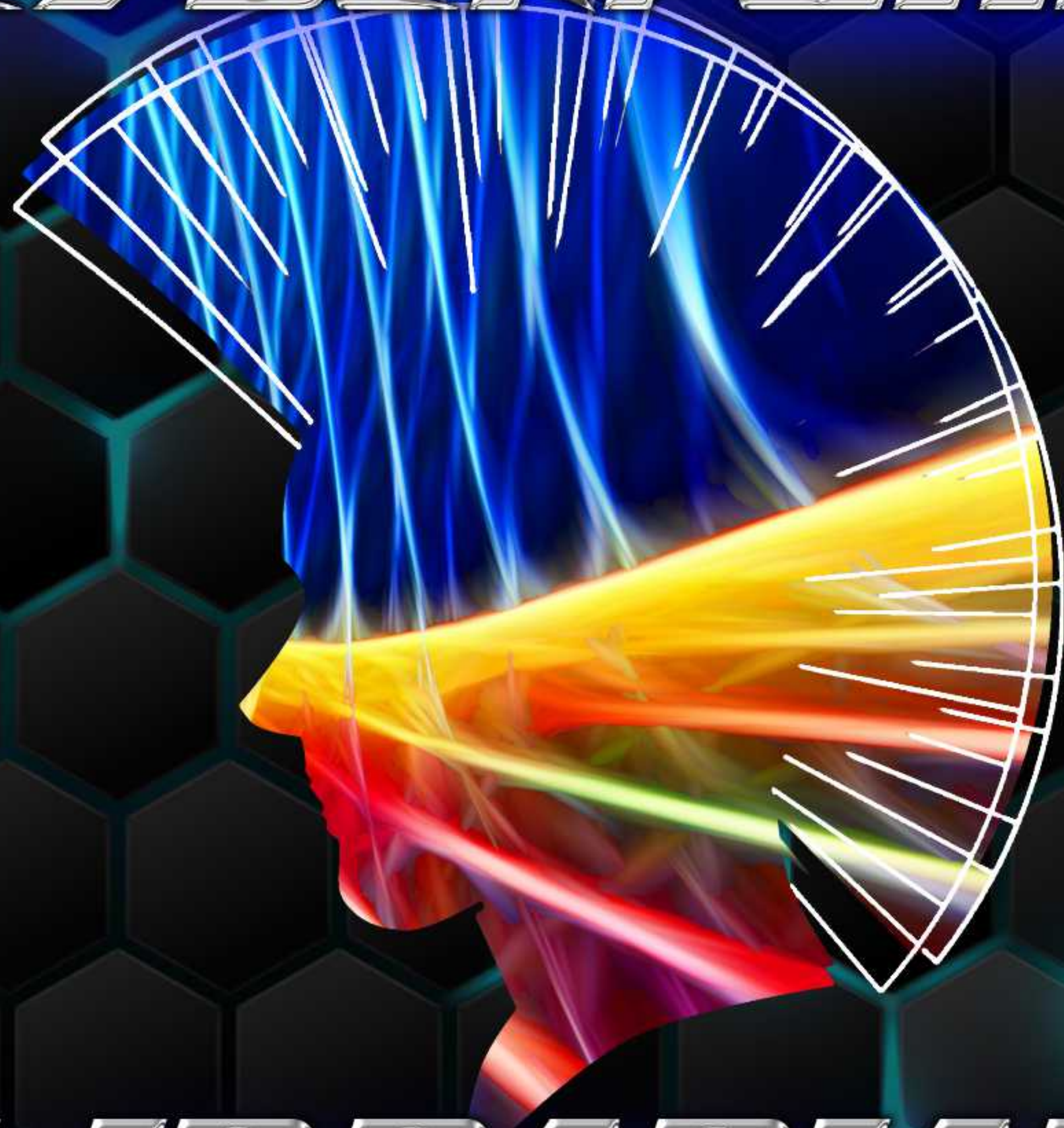
<https://showcase.azsummerreading.org/showcase/jungle-jills-animal-encounters/>

Hello, I'm Dan (he/him)



- Almost 30 years in libraries
- Polaris ILS Administrator
- SQL hacker
- Data analysis and storytelling
- Library technology
- Circulation methodology

CYBERPUNK



LIBRARIAN

Hello, I'm Dan



- About a decade of research into shadow libraries
- Cataloguing
- Interlibrary Loan
- Acquisitions
- System Administration & Development

What is a shadow library?

A collection of content and materials that aren't readily accessible, that are then made available to wider audiences despite any previous limitations.

Collection



Digital







Post



Chris Hayes

@chrishayes



If libraries didn't exist, we could never invent them now. What does that mean for the future of American society? A great convo w [@ericklinenberg](#) #WITHPod art19.com/shows/why-is-t..

7:20 AM · Sep 25, 2018

237 Reposts **37** Quotes **930** Likes **24** Bookmarks





BREAKIN' THE LAW!

We'll be talking about these...

- Anna's Archive
- Library Genesis
- Sci-Hub
- Z-Library

Not these....



[matrix]

#irc



The Flow



Materials are:

- Acquired - Through scanning, copying, etc.
- Catalogued - Metadata makes for findability
- Presented - We might call this an OPAC
- Distributed - Circulation, kind of
- Statistics - Shadow librarians love stats too

Similar architectures

- Material Types - ePub, mobi, pdf, azw
- Collections - User generated, but librarians are users too
- Series - *Everyone* hates this

Departments

Departments in shadows and light

- Acquisitions
- Administration
- Cataloguing
- Circulation
- Information Technology
- Interlibrary Loan
- Outreach & Collaboration (Community Services)
- Patron Services (Adult, Teen, Youth)
- Reference

Departments in shadows and light

- Acquisitions
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- Reference

Removing Barriers to Access

CYBRARIUM
HOMESTEAD FLORIDA

cybrarium.org

MESA PUBLIC LIBRARY
DATE DUE

2 14	FEB 14 1989
1 1984	JAN 19 1989
1 1984	MAR 15 1989
1 1984	MAY 2 1989
1 1984	APR 5 1989
1 1984	MAR 19 1989
1 1984	APR 27 1989
2 1986	MAY 11 1989
1 1986	MAY 30 1989
1 1986	FEB 01 1989
4 2006	JAN 28 1991
	JUL 03 2006
	FEB 26 2009
	APR 06 2009

Discover worlds!

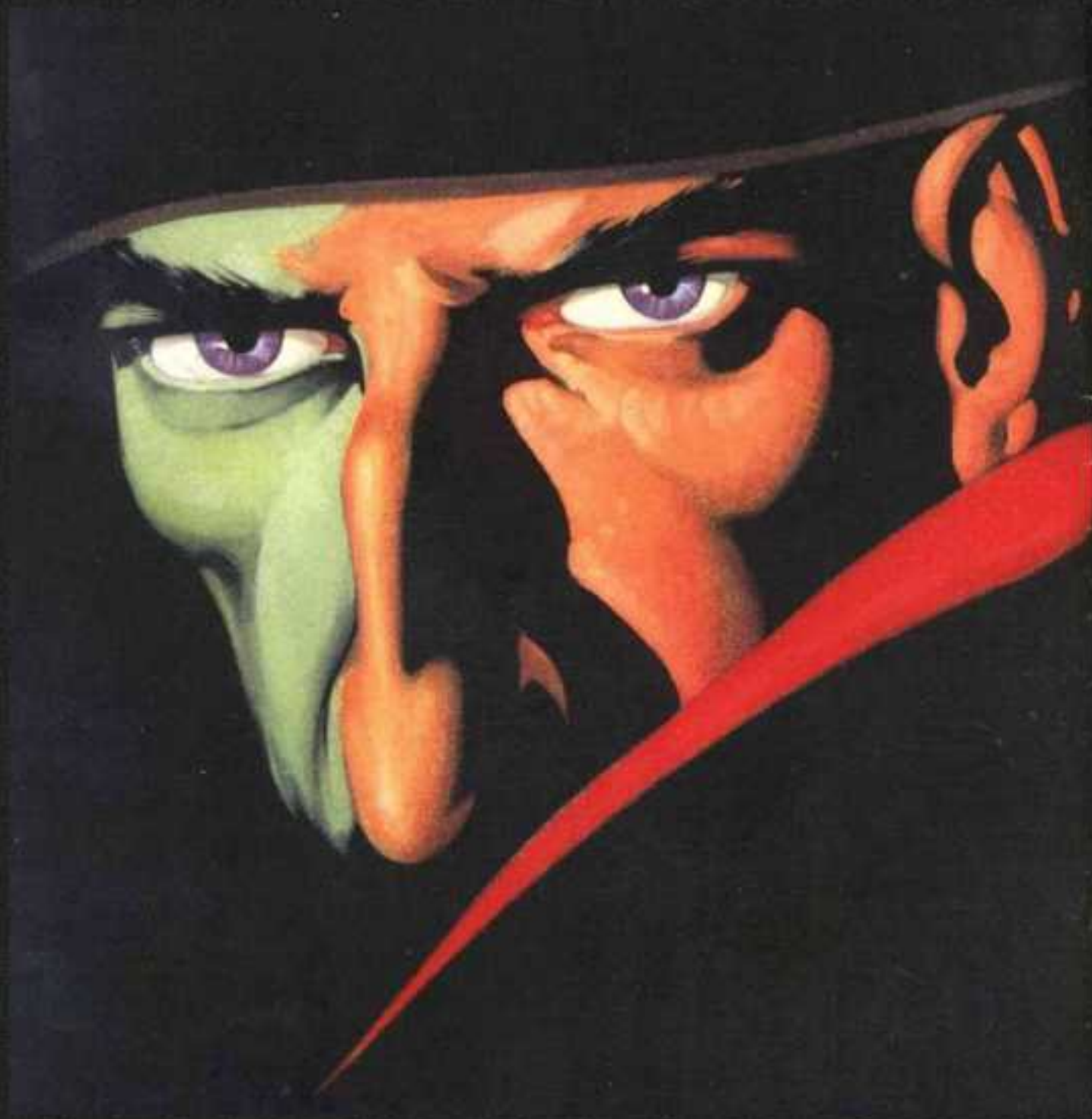
**Maricopa County
Library District**
where curiosity leads

**WARREN COUNTY
PUBLIC LIBRARY**
270.781.4882 | www.warrenpl.org

**Camarillo
PUBLIC LIBRARY**
www.CamarilloLibrary.org

CAMARILLO READS: ONE CITY ONE BOOK 2019
WELCOME TO NIGHT VALE





THE
Shadow

LIBRARY CARD



Discover worlds!



Imperial County

Imperial County District

Community leads



Maricopa County
Library District
where curiosity leads





EBSCO

 GALE

Big Public Librarian Flex



EBSCO

 GALE

Big Public Librarian Flex



Anna's Archive

EBSCO

 **GALE**







VALVE





Piracy is almost always a service problem
and not a pricing problem.

~Gabe Newell


Common Departments



Acquisitions





A high-angle photograph of a chessboard with several pieces. The board is set on a wooden surface. The word "RULES" is superimposed in a large, red, distressed font, enclosed in a matching red border. The pieces are arranged in a way that suggests a game in progress. The lighting is dramatic, with strong shadows.

RULES



**Collection
Development
Policies**



NEWS

NEWS

D
[Placeholder text]



Local Author Writes Novel!

[Placeholder text]

[Placeholder text]

G
[Placeholder text]
F
[Placeholder text]

NEWS

HA

D



Local
Author
Writes
Novel

G

DENIED

F

TERMINAL CITY RICOCHET

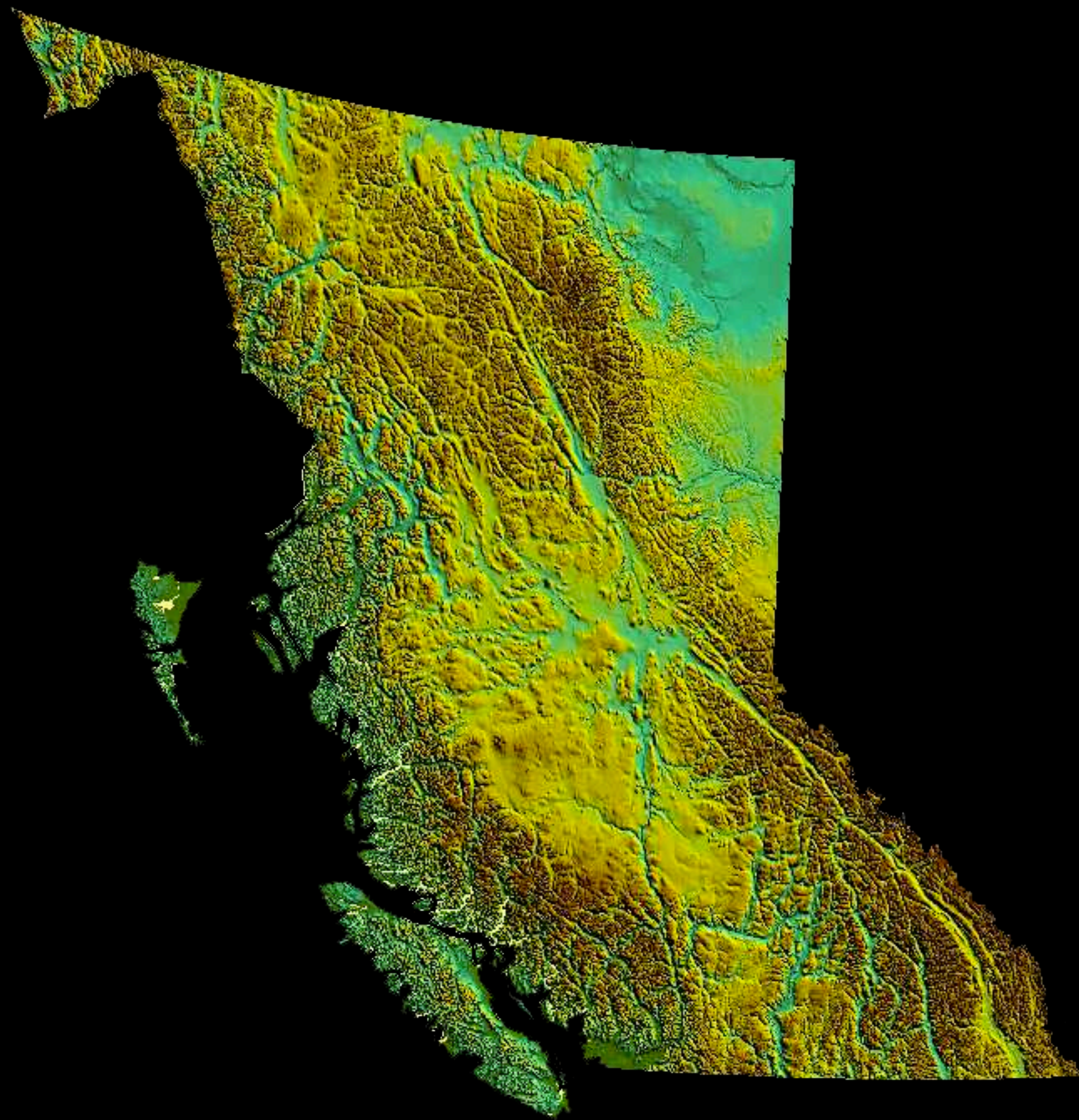
WHEN REAL LIFE IS A TELEVISION SHOW...
YOU CAN'T CHANGE THE CHANNEL!



A DARKLY COMIC, NEAR-NOIR WITH A ROCKIN' SOUNDTRACK. TERMINAL CITY RICOCHET MAY BE CLOSER TO OUR
FUTURE THAN BLADE RUNNER, BRAZIL, OR EVEN A CLOCKWORK ORANGE. OR ARE WE ALREADY THERE?



D.O.A.



JELLO
BIAFRA

ORIGINAL MOTION PICTURE SOUNDTRACK
D.O.A.
BEATNIGS

KEITH
LeBLANC

EVAN JOHNS & THE H-BOMBS

NOMEANSNO

GERRY HANNAH

I, BRAINEATER

THE GROOVAHOLICS

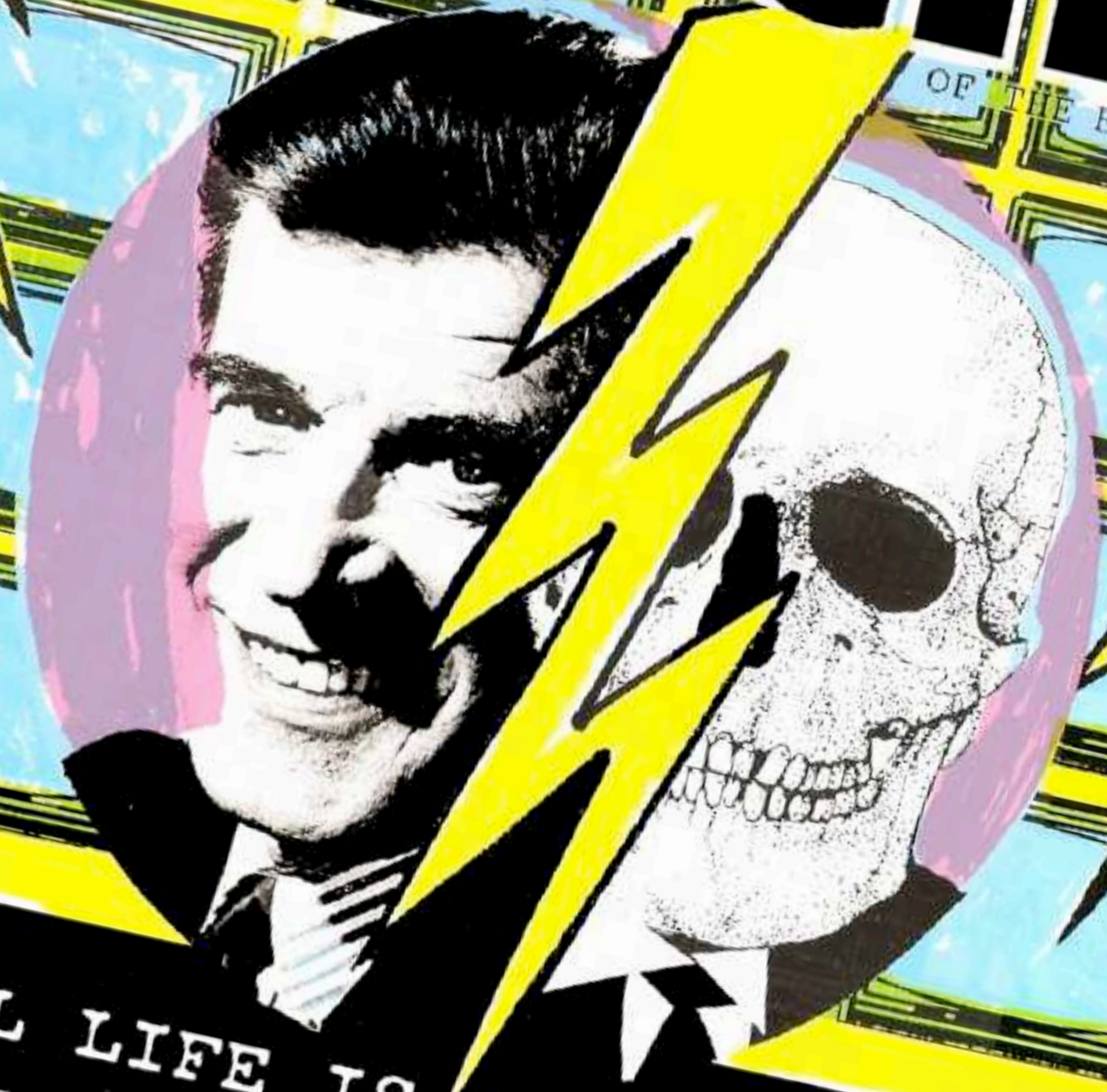
ART BERGMANN

RICOCHET

TERMINAL CITY

THE BEGINNING

OF THE END



WHEN REAL LIFE IS A TELEVISION SHOW
YOU CAN'T CHANGE THE CHANNEL

TERMINAL CITY RICOCHET

WHEN REAL LIFE IS A TELEVISION SHOW...
YOU CAN'T CHANGE THE CHANNEL!

UNOBTAINABLE

A DARKLY COMIC, NEAR-NOIR WITH A ROCKIN' SOUNDTRACK. TERMINAL CITY RICOCHET MAY BE CLOSER TO OUR
FUTURE THAN BLADE RUNNER, BRAZIL, OR EVEN A CLOCKWORK ORANGE. OR ARE WE ALREADY THERE?

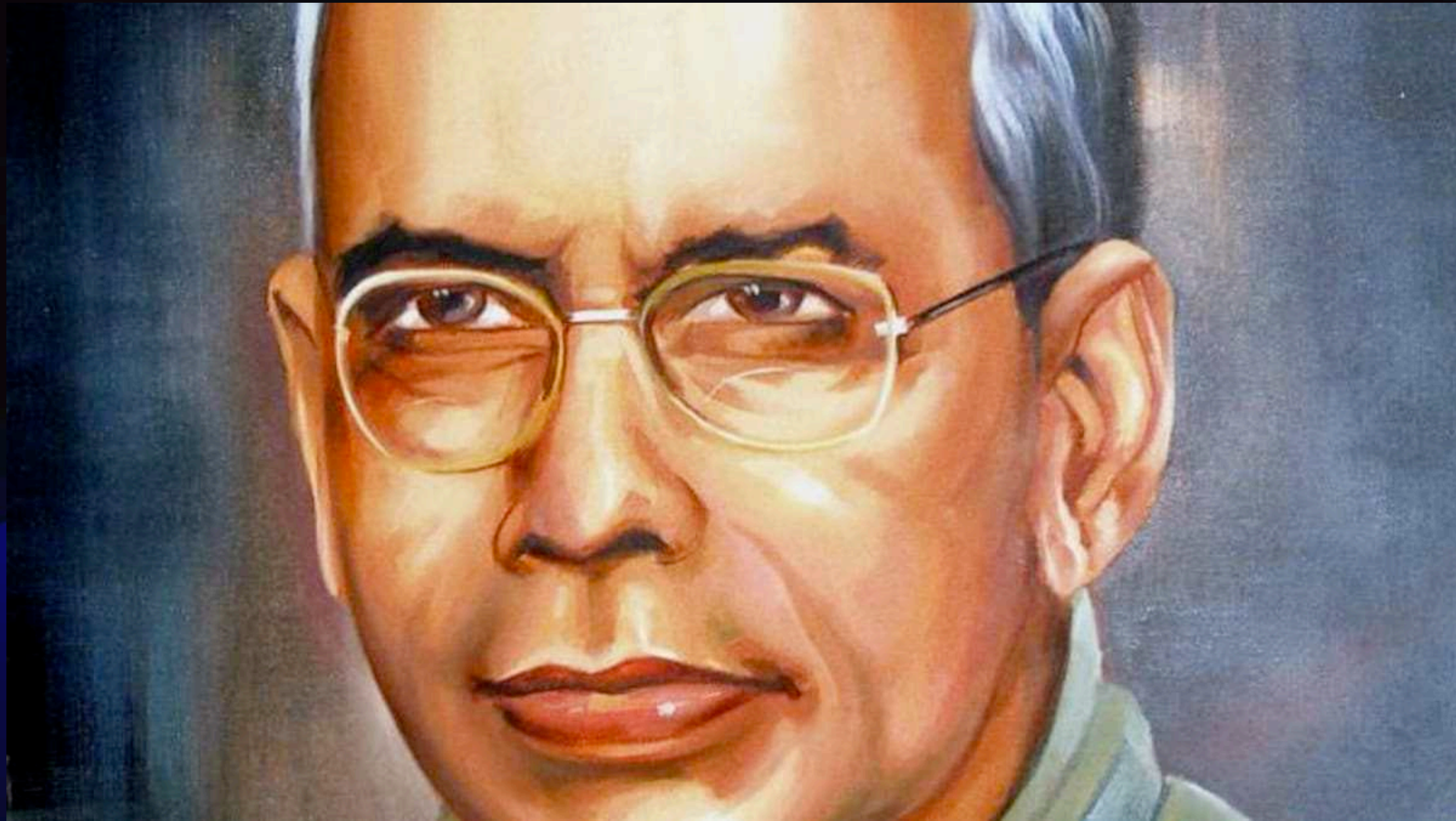


WorldCat[®]



**GREATER VICTORIA
PUBLIC LIBRARY**





Law #3: Every book its reader

TERMINAL CITY RICOCHET

WHEN REAL LIFE IS A TELEVISION SHOW...
YOU CAN'T CHANGE THE CHANNEL!

OST AVAILABLE

A DARKLY COMIC, NEAR-NOIR WITH A ROCKIN' SOUNDTRACK. TERMINAL CITY RICOCHET MAY BE CLOSER TO OUR
NATURE THAN BLADE RUNNER, BRAZIL, OR EVEN A CLOCKWORK ORANGE. OR ARE WE ALREADY THERE?



Terminal City Ricochet (1990)

by [Zale Dalen](#)



Shadow Library

Philosophy of Acquisitions



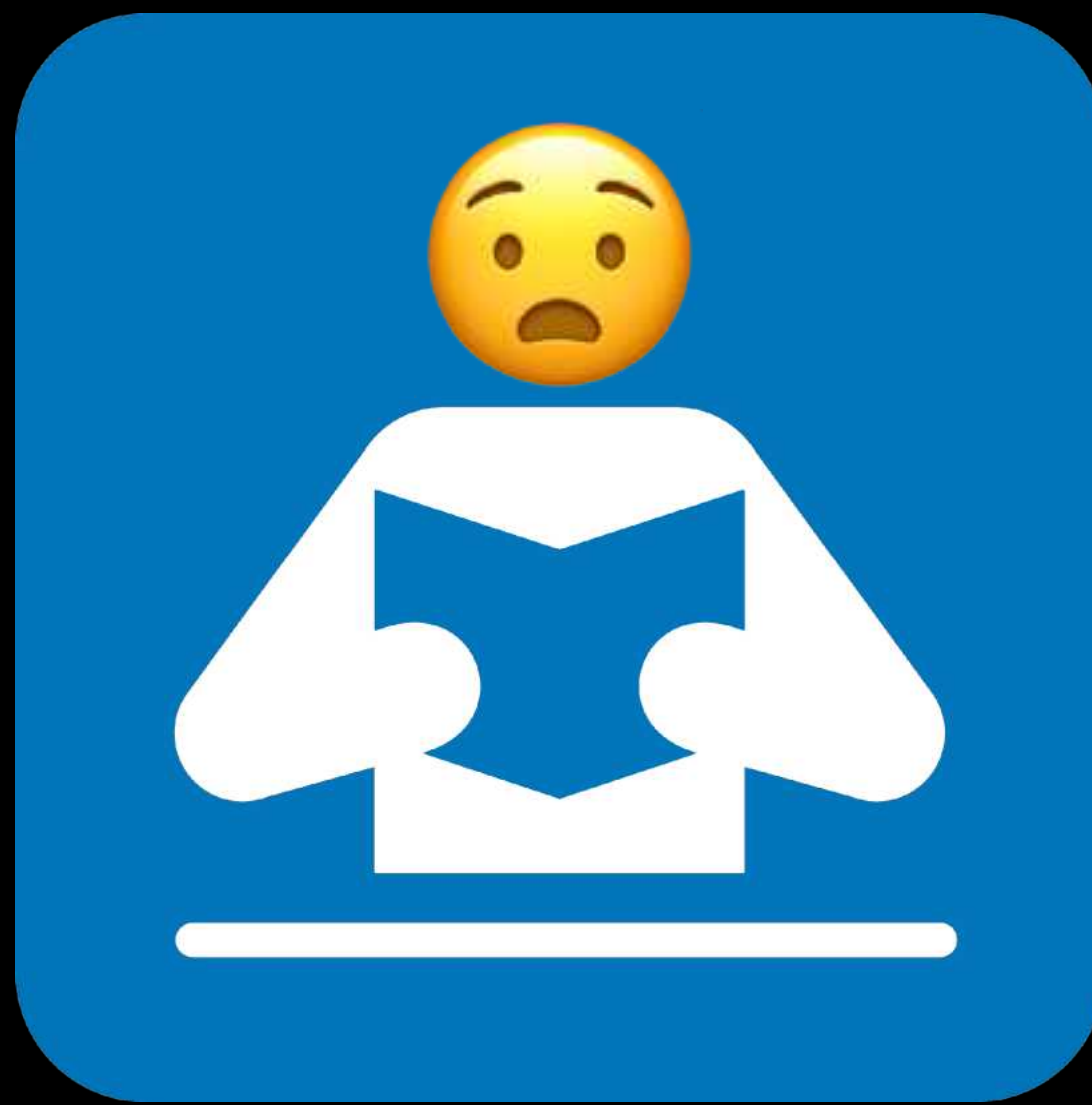
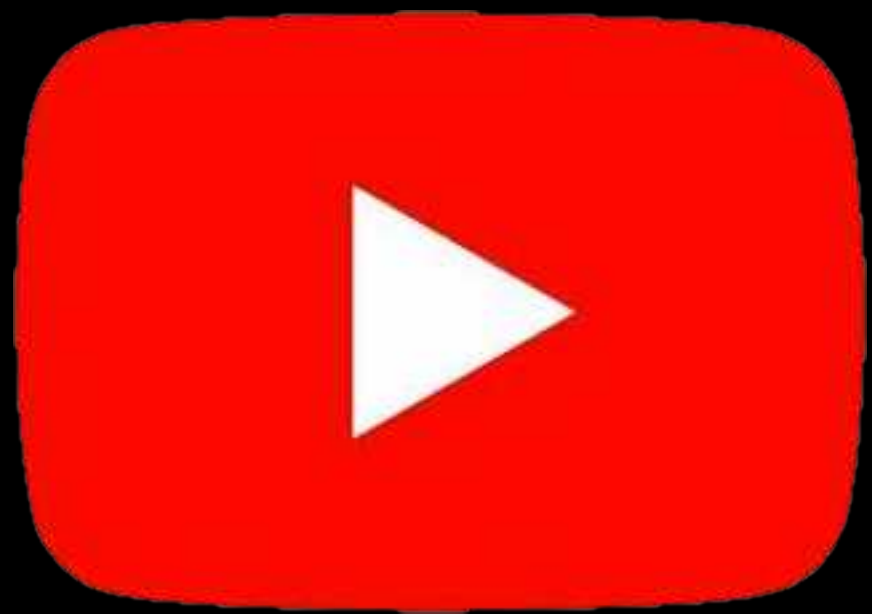
The Five Laws of Library Science

1. Books are for use.
2. Every person his or her book.
3. Every book its reader.
4. Save the time of the reader.
5. A library is a growing organism.



**Collection
Development
Policies**





crunchyroll™

 Bookshop.org

Anna's Archive



hulu



zlibrary 

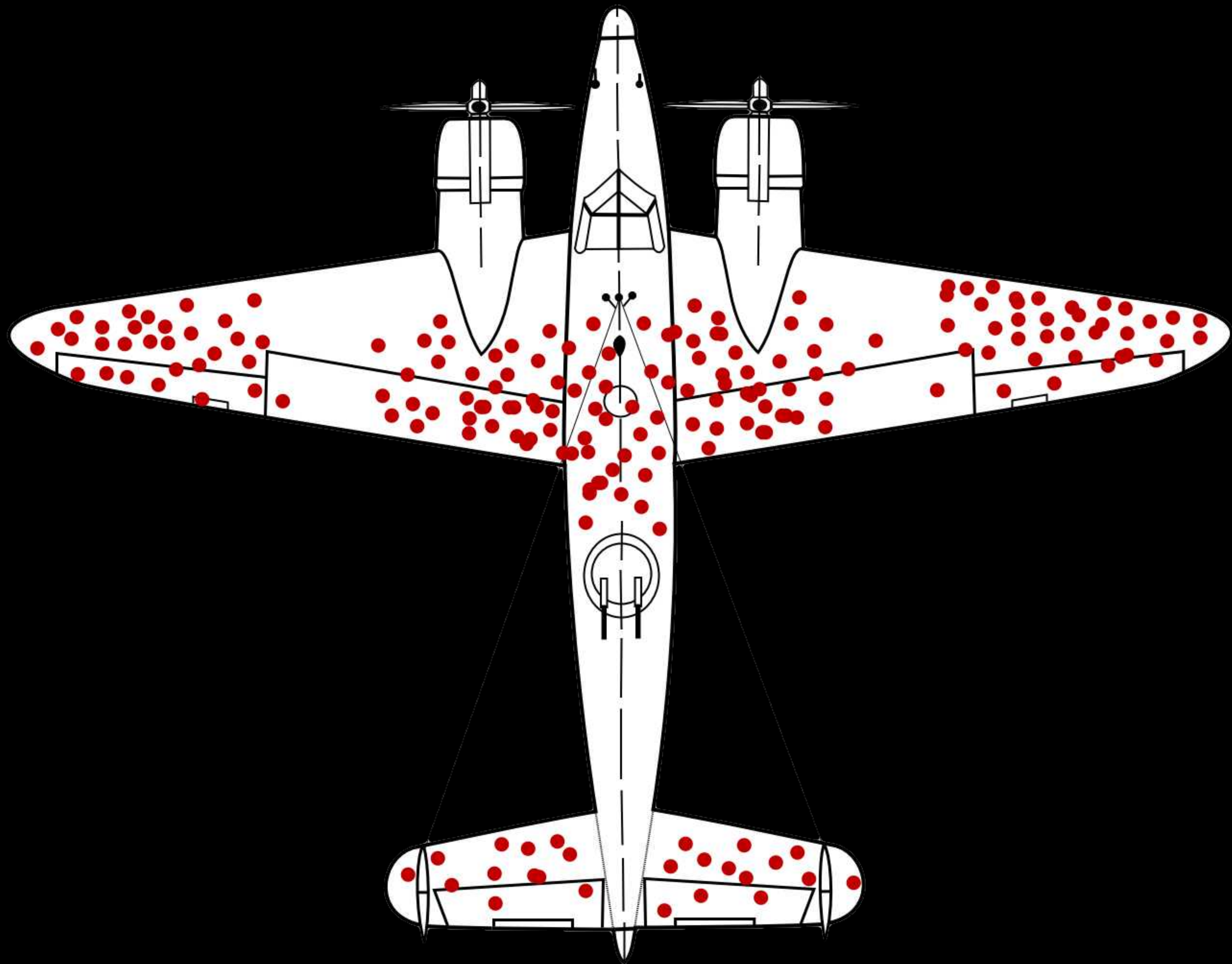


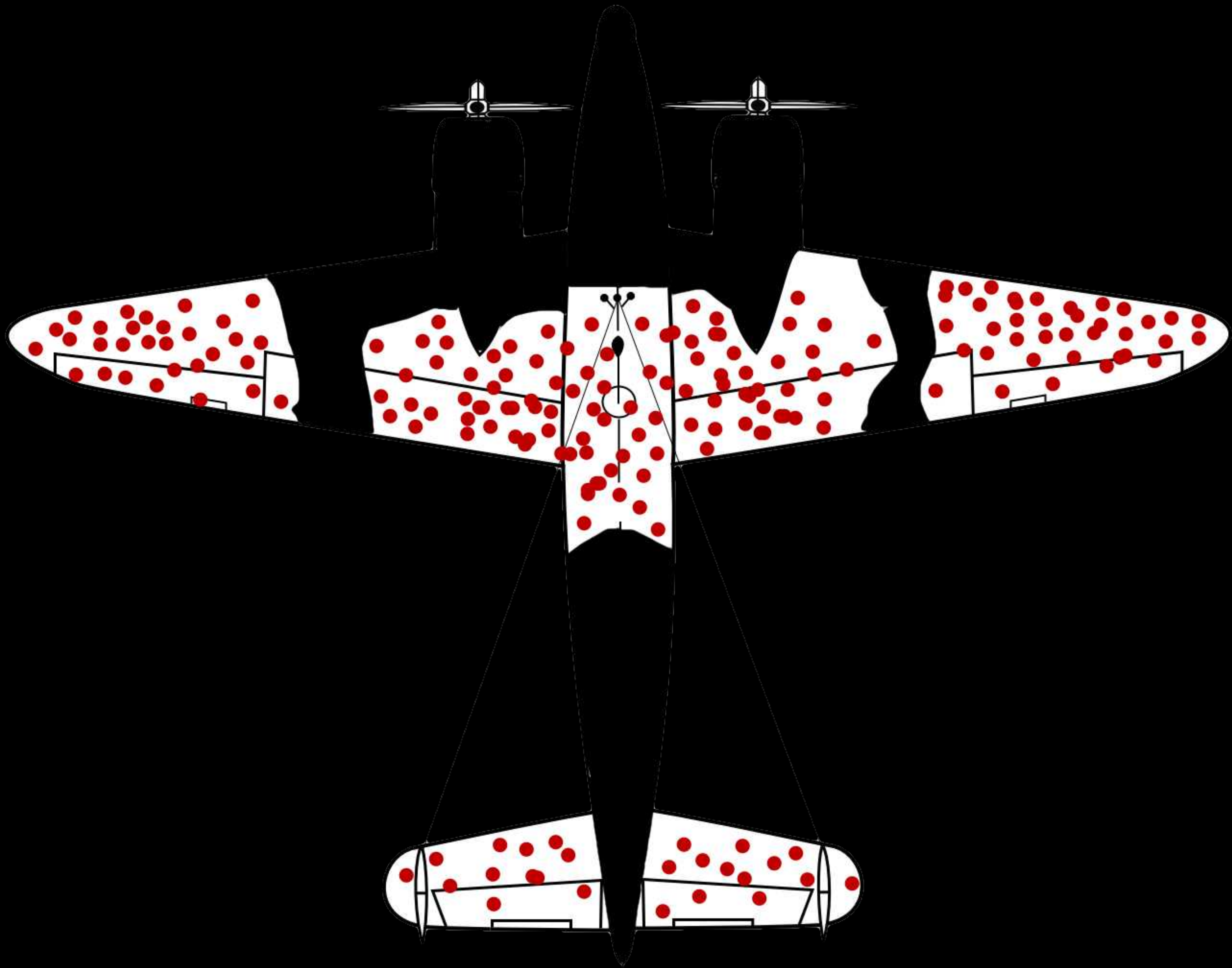
What items aren't people checking out?

How many people aren't coming back?

Survivorship Bias

CNIA

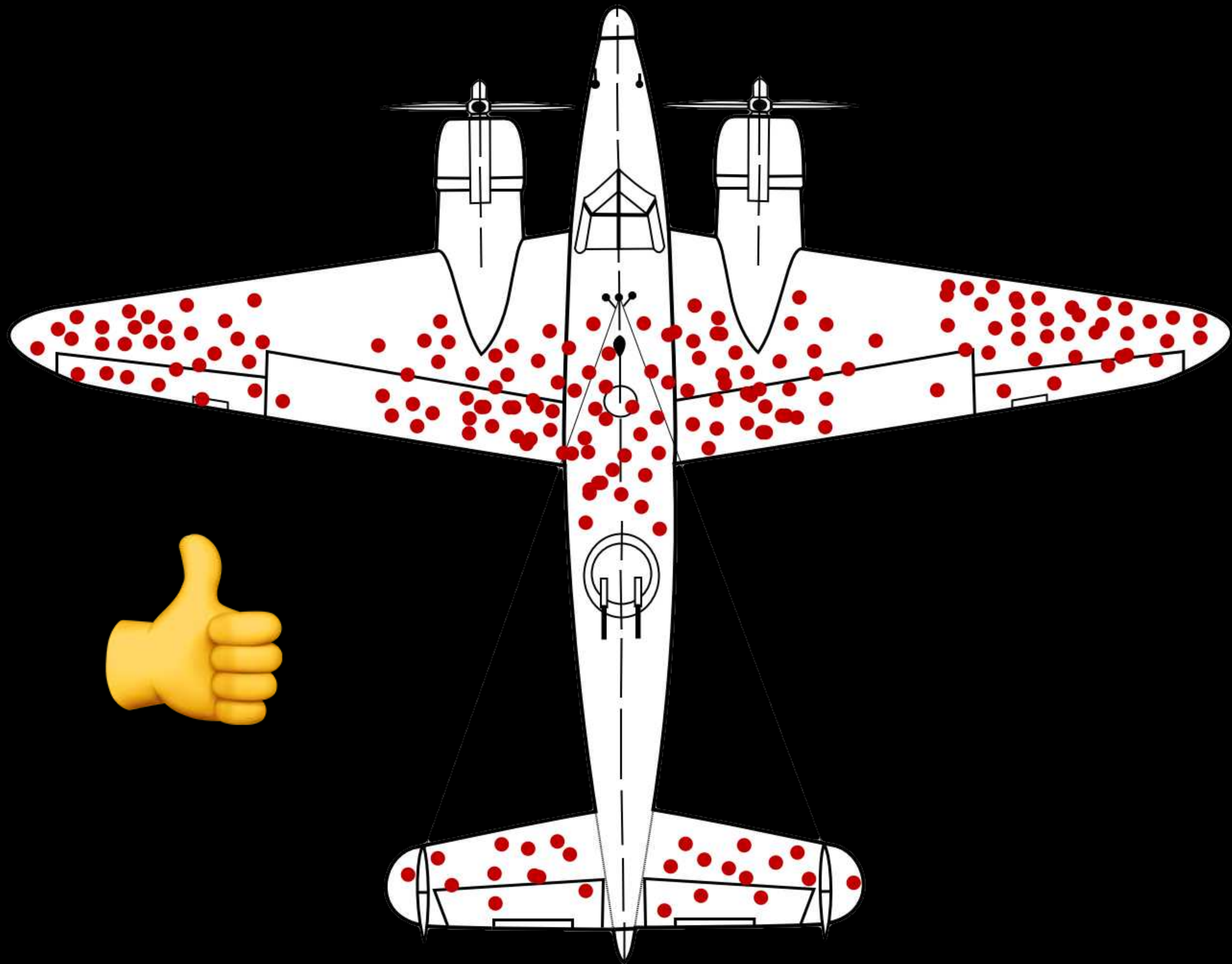


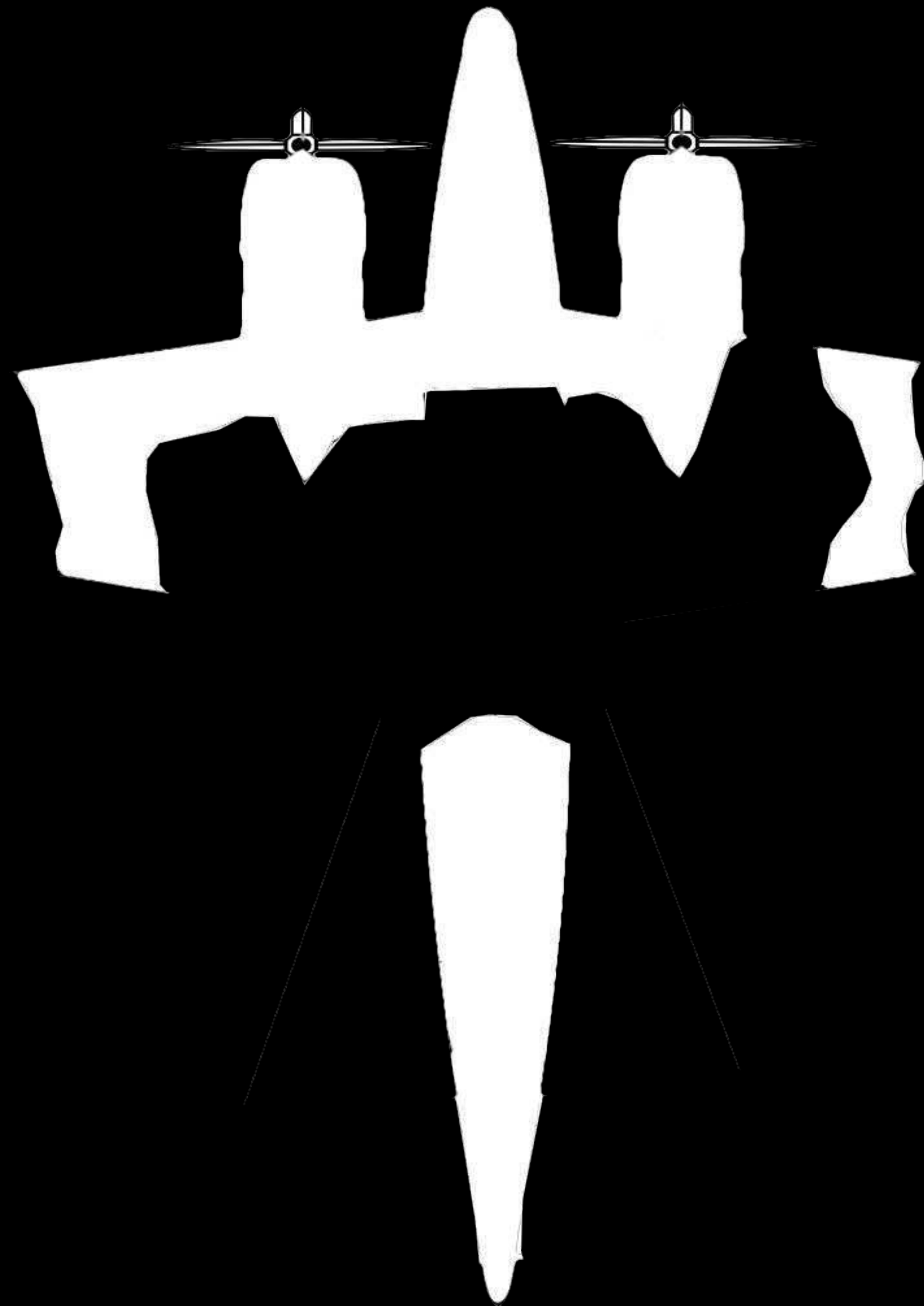


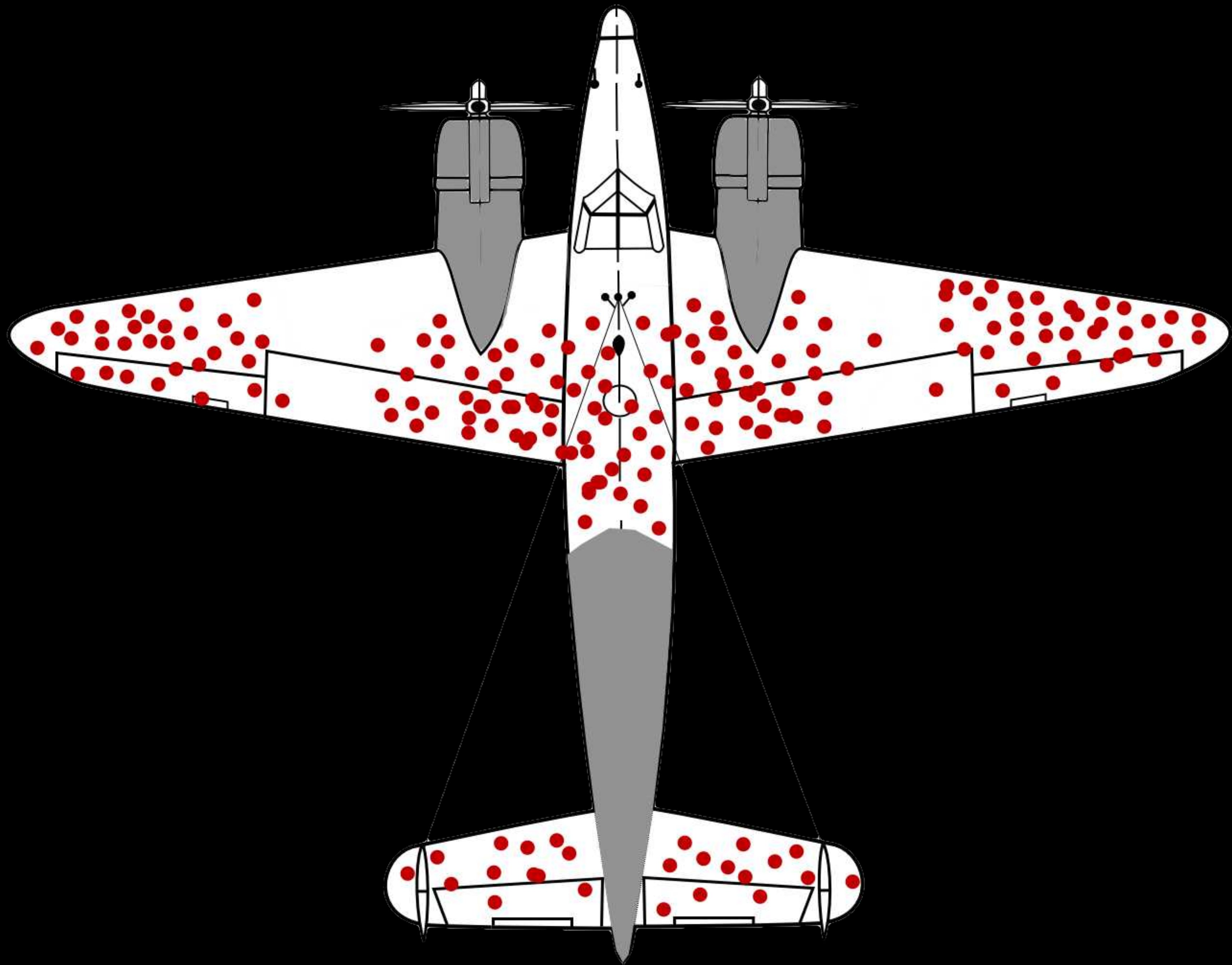


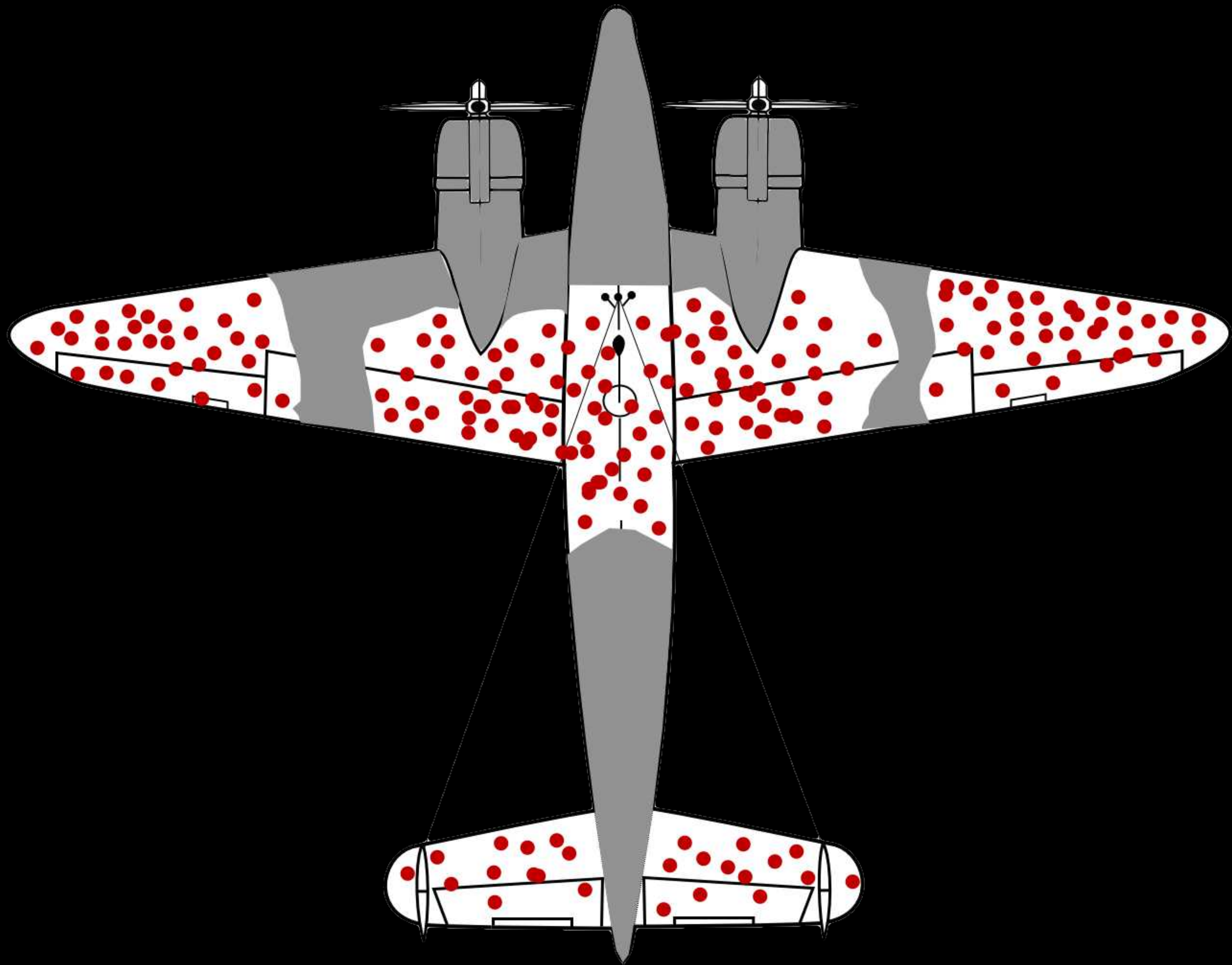
Abraham Wald

(1902 - 1950)

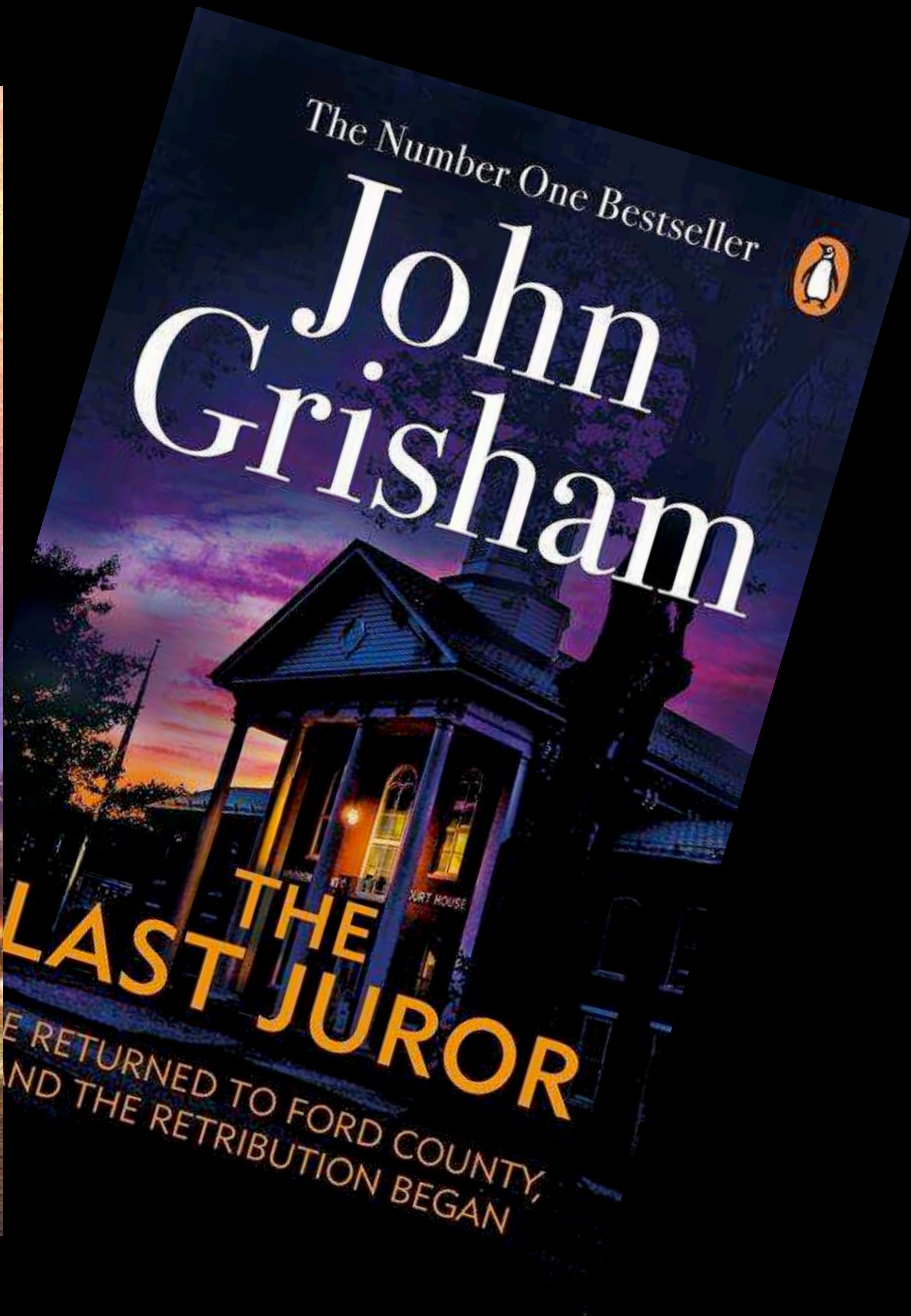
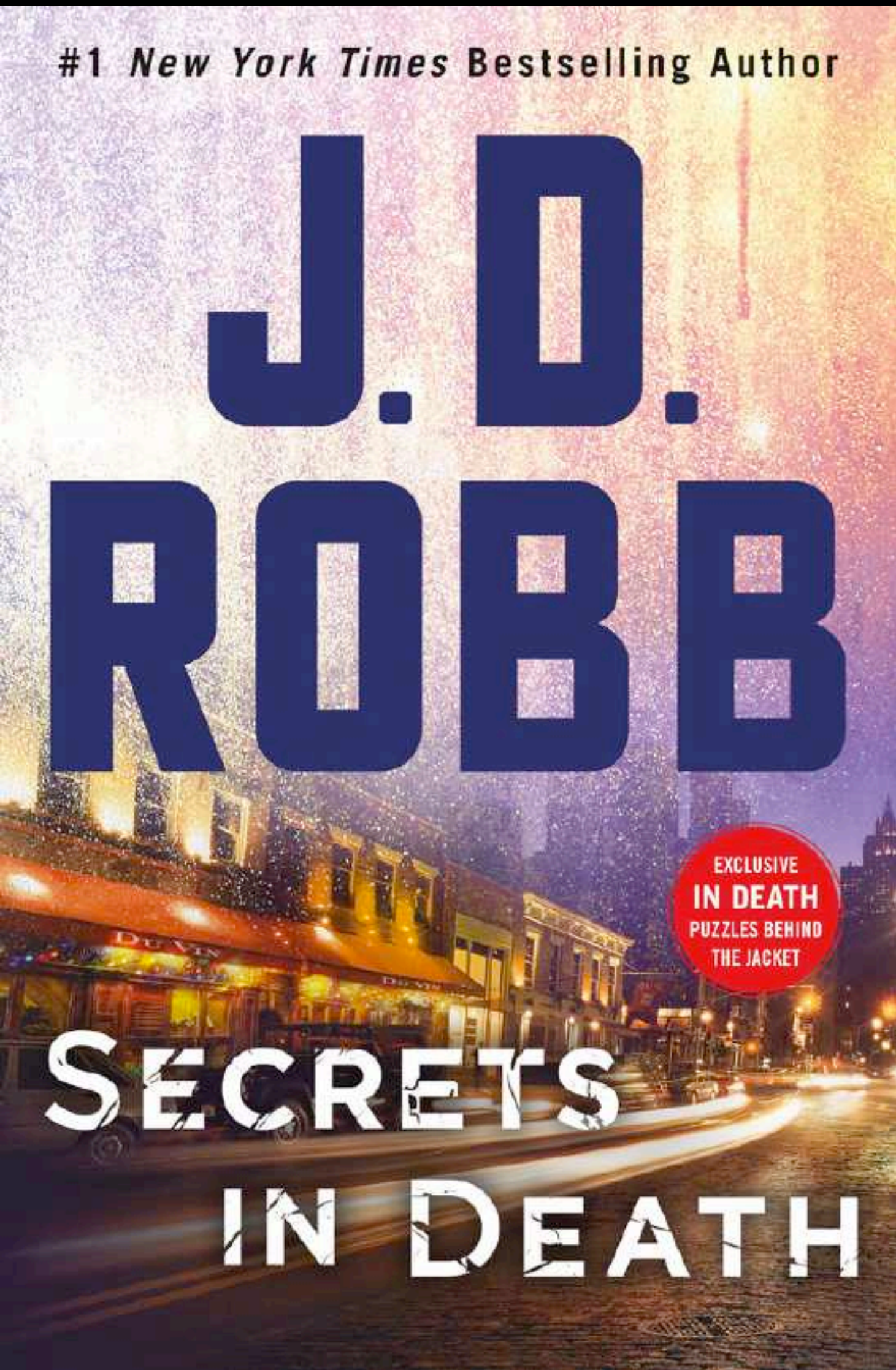
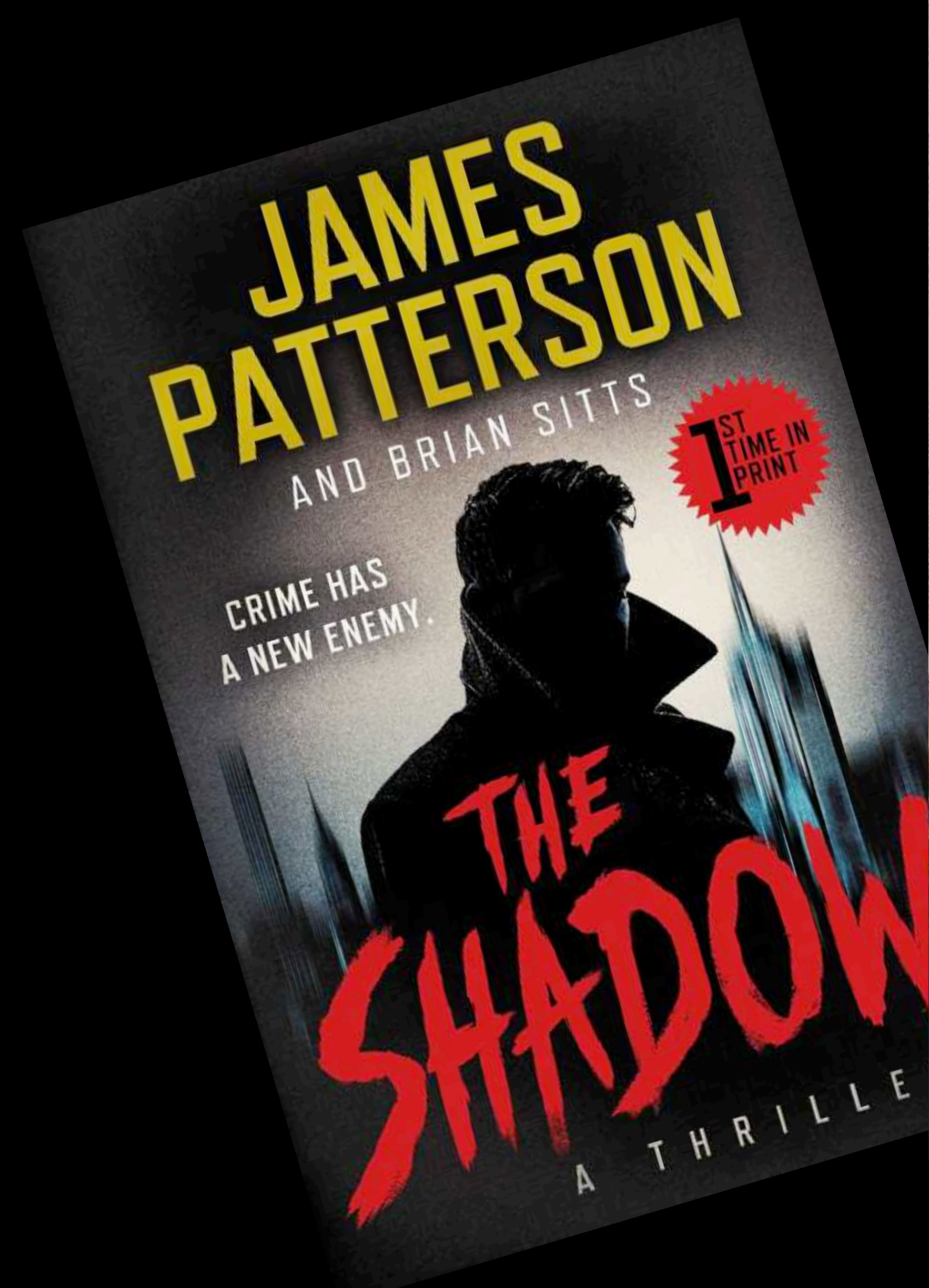








√ (ツ) √



Mr. Snuffleupagus



**Every Day
I'm
Snufflin'**

A LIFE AS AN
(UN)IMAGINARY
FRIEND

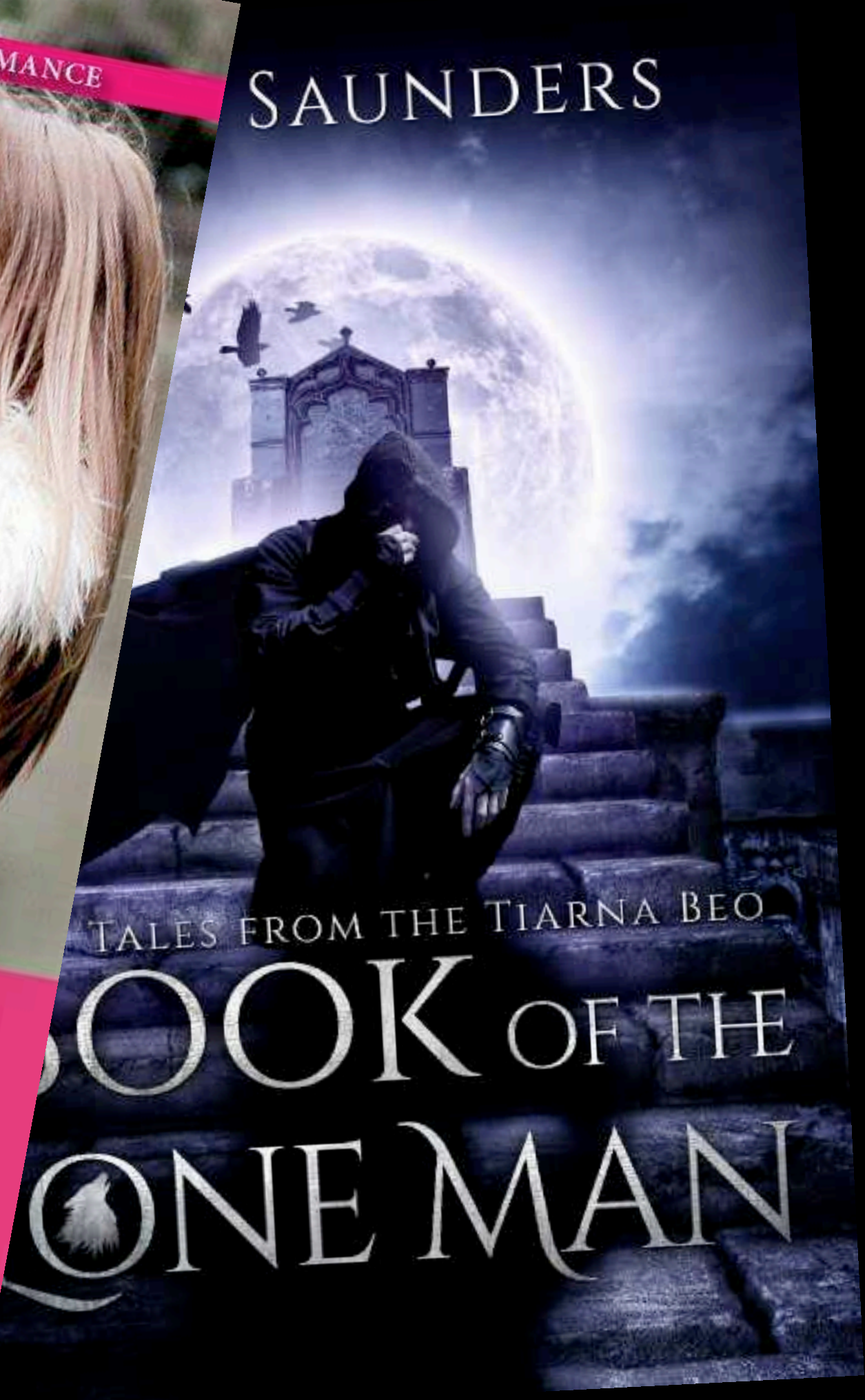
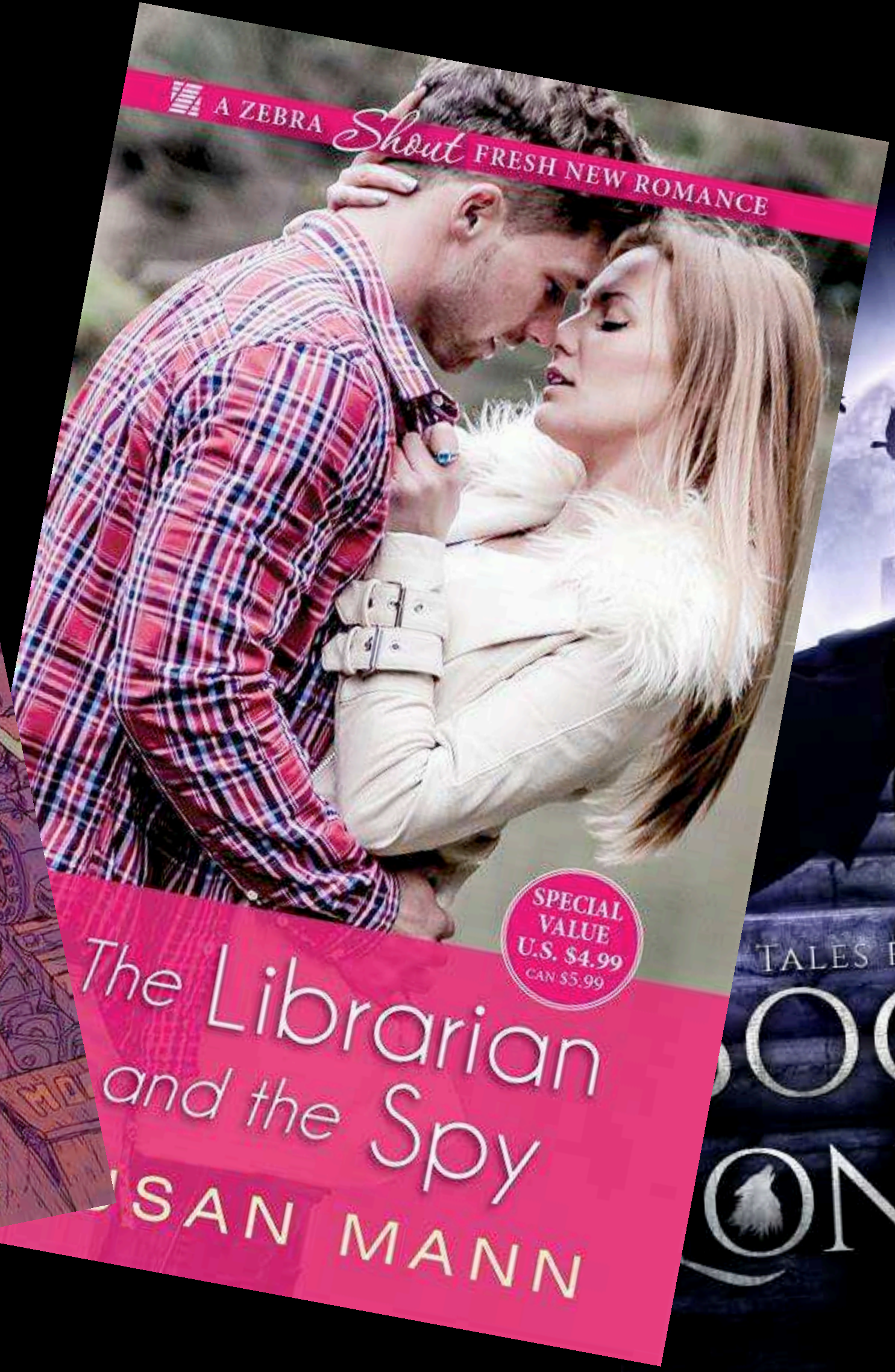
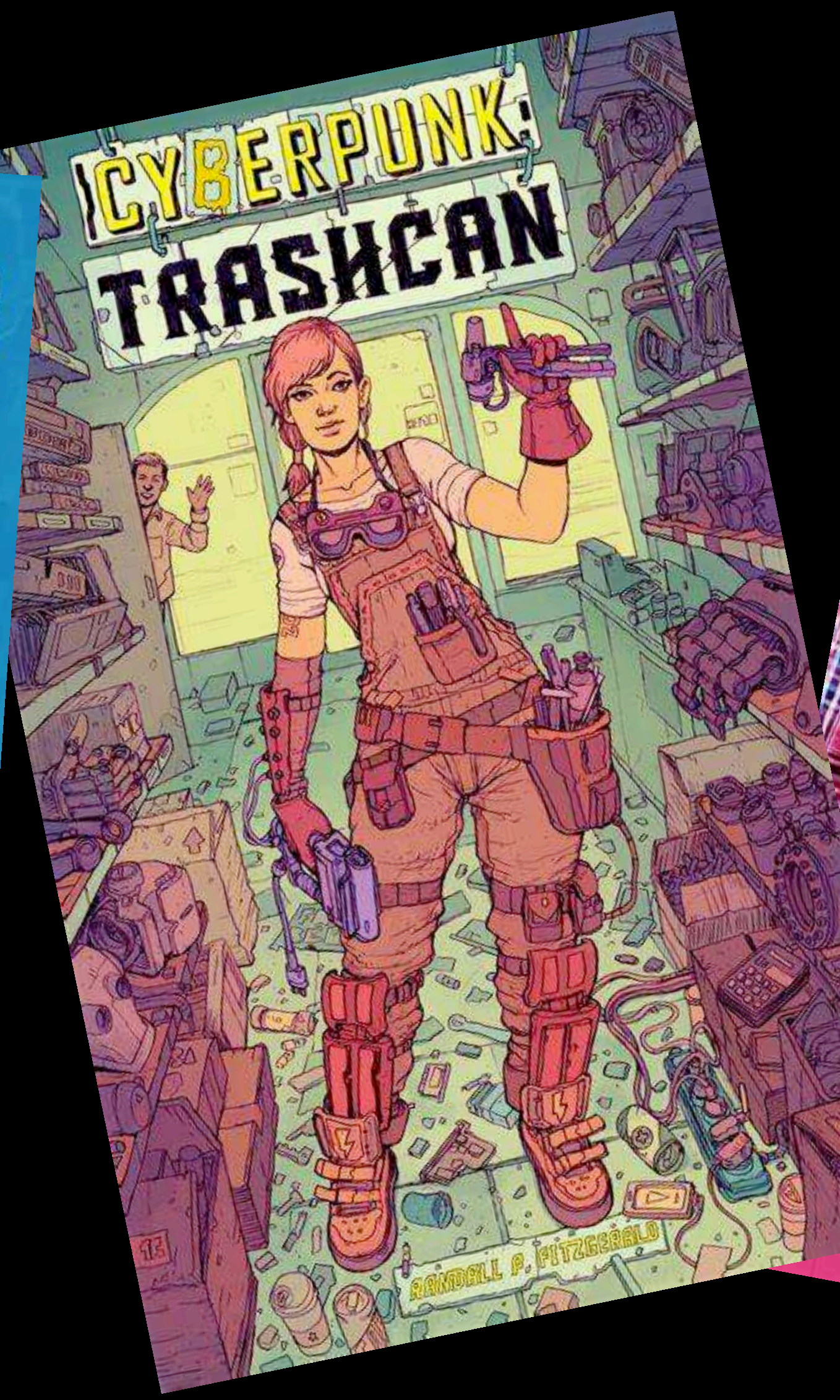
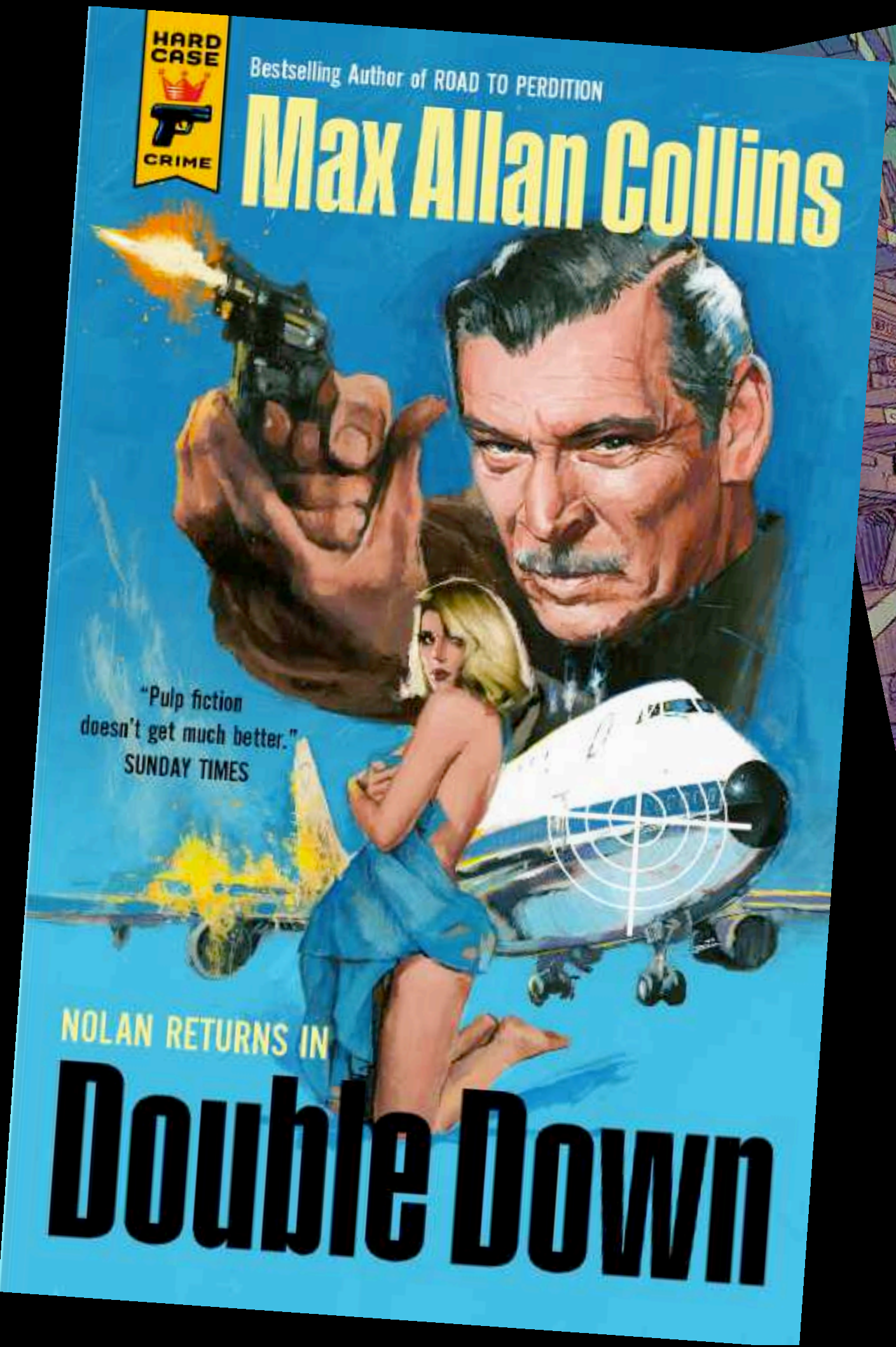
**COMING SOON
TO A THEATRE
NEAR YOU!**

Guardian





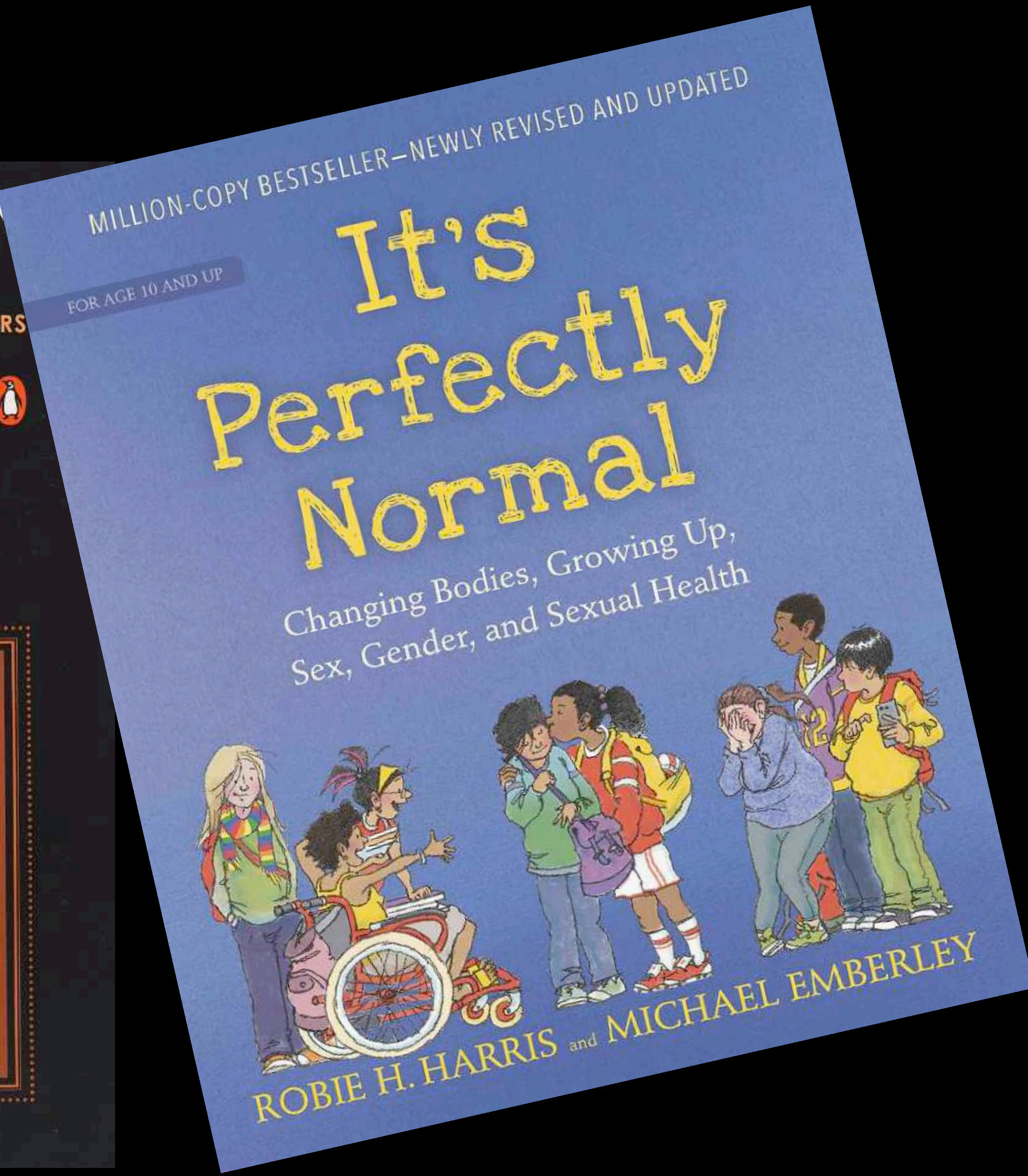
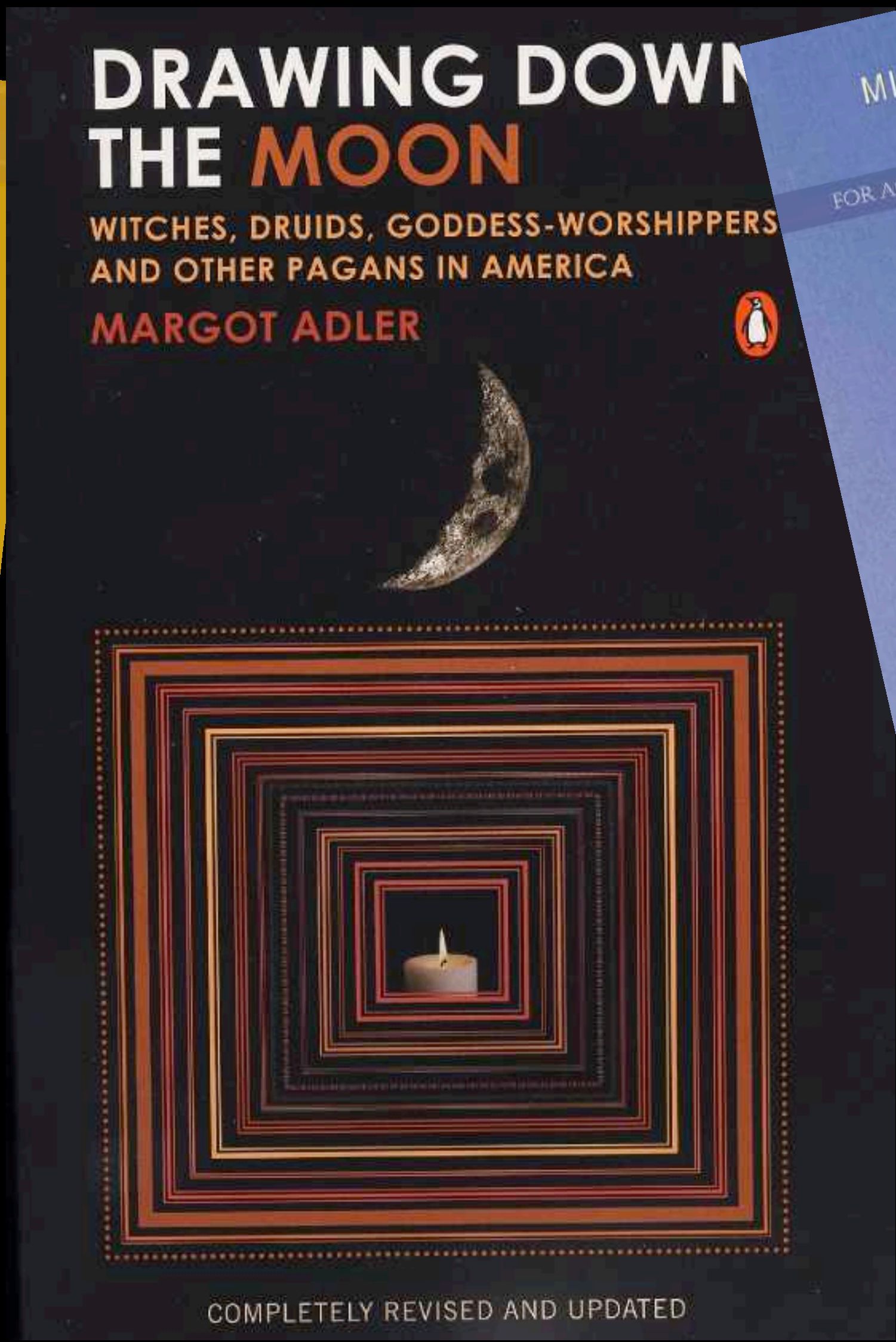
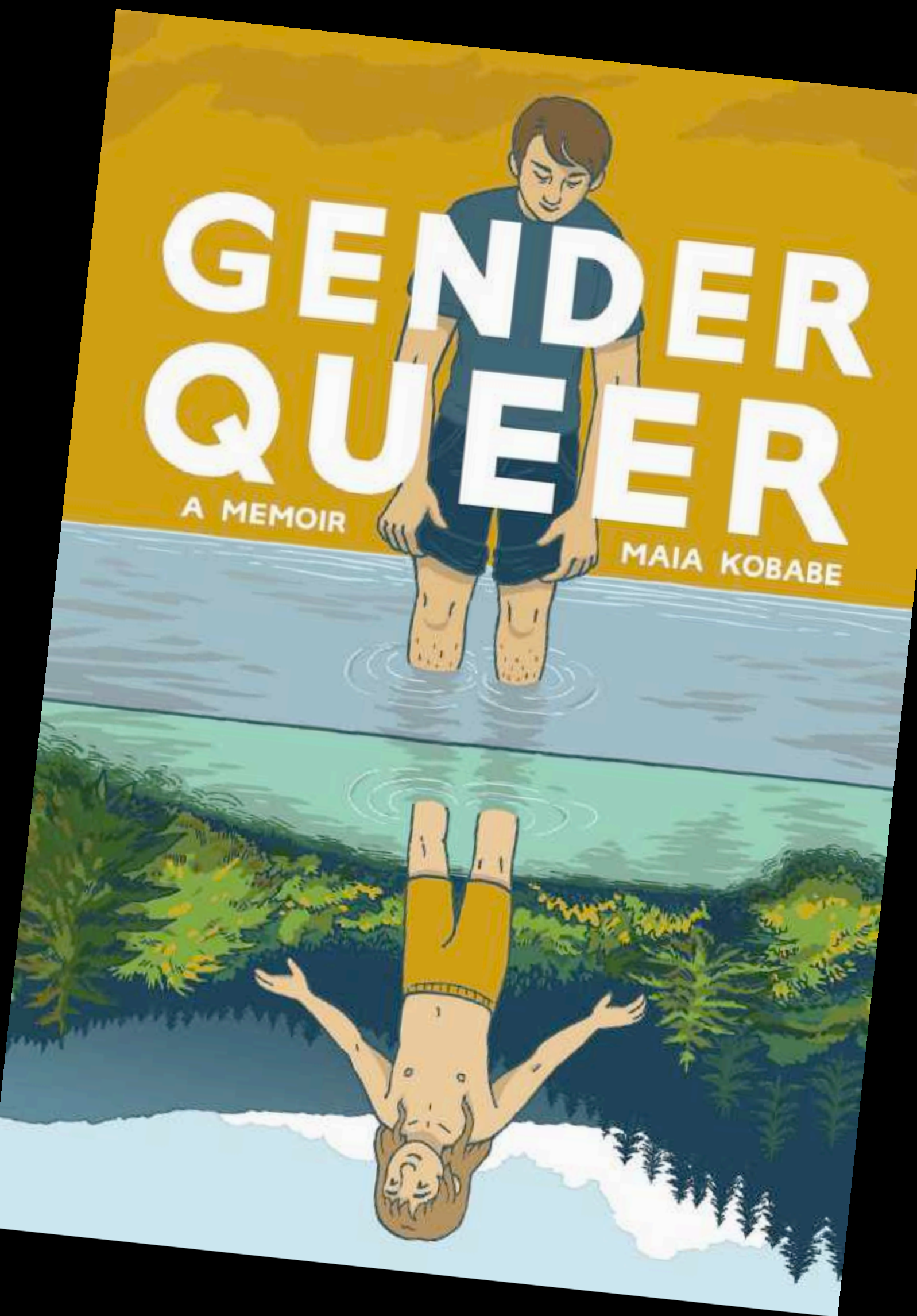




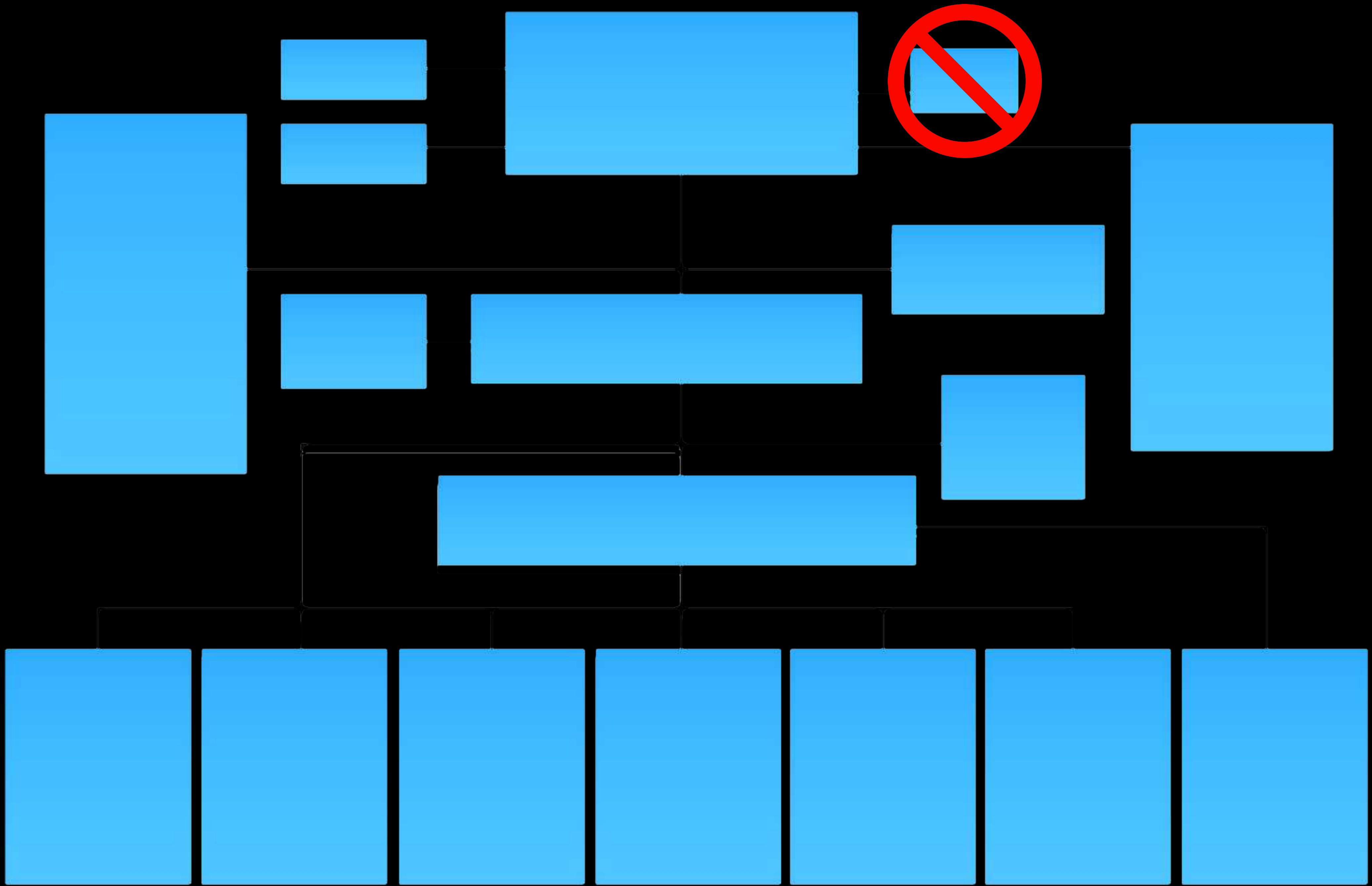
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SELECT
    DISTINCT itemrecord.numValue AS [Item Record],
    ab.Name AS [Assigned Branch],
    br.BrowseTitle AS [Title],
    br.BrowseAuthor AS [Author],
    ird.CallNumber AS [Call Number],
    mat.Description AS [Material Type],
    STUFF(
        SELECT ', ' + msh.BrowseSubject
        FROM Polaris.Polaris.BibliographicRecords br_inner
        INNER JOIN Polaris.Polaris.BibSubjectIndices bsi_inner ON bsi_inner.BibliographicRecordID = br_inner.BibliographicRecordID
        INNER JOIN Polaris.Polaris.MainSubjectHeadings msh ON msh.MainSubjectHeadingID = bsi_inner.MainSubjectHeadingID
        WHERE br_inner.BibliographicRecordID = br.BibliographicRecordID
        FOR XML PATH(''), TYPE).value('.', 'NVARCHAR(MAX)'), 1, 2, '' AS [Subject Headings] -- Compatible with SQL Server 2016
FROM
    PolarisTransactions.Polaris.TransactionHeaders th WITH (NOLOCK)
INNER JOIN -- Pulls the checkin type from TransactionDetails
    PolarisTransactions.Polaris.TransactionDetails checkintype WITH (NOLOCK)
    ON (th.TransactionID = checkintype.TransactionID AND checkintype.TransactionSubTypeID = 128)
INNER JOIN -- Pulls the ItemRecordID from TransactionDetails
    PolarisTransactions.Polaris.TransactionDetails itemrecord WITH (NOLOCK)
    ON (th.TransactionID = itemrecord.TransactionID AND itemrecord.TransactionSubTypeID = 38)
LEFT JOIN -- Links the ItemRecordID
    Polaris.Polaris.CircItemRecords cir WITH (NOLOCK)
    ON (cir.ItemRecordID = itemrecord.numValue)
LEFT JOIN -- Links the BibliographicRecordID
    Polaris.Polaris.BibliographicRecords br WITH (NOLOCK)
    ON (br.BibliographicRecordID = cir.AssociatedBibRecordID)
LEFT JOIN -- Bring in item record details to get call number
    Polaris.Polaris.ItemRecordDetails ird WITH (NOLOCK)
    ON (ird.ItemRecordID = itemrecord.numValue)
LEFT JOIN -- Bring in the material type
    Polaris.Polaris.MaterialTypes mat WITH (NOLOCK)
    ON (mat.MaterialTypeID = cir.MaterialTypeID)
LEFT JOIN -- Pulls in assigned branch
    Polaris.Polaris.Organizations ab WITH (NOLOCK)
    ON (ab.OrganizationID = cir.AssignedBranchID)
LEFT JOIN -- Pulls in Bibliographic Subject Indices
    Polaris.Polaris.BibSubjectIndices bsi WITH (NOLOCK)
    ON (bsi.BibliographicRecordID = br.BibliographicRecordID)
LEFT JOIN -- Pulls in subject headings
    Polaris.Polaris.MainSubjectHeadings msh WITH (NOLOCK)
    ON (msh.MainSubjectHeadingID = bsi.MainSubjectHeadingID)
WHERE -- Check ins
    th.TransactionTypeID = 6002
AND -- Staff Client In-House and Leap In-House Check In
    checkintype.numValue IN (6,56)
AND -- Set your dates
    th.TranClientDate BETWEEN '2024-02-01 00:00:00.000' AND '2024-12-31 23:59:59.999'
ORDER BY
    br.BrowseTitle,
    br.BrowseAuthor

```



Administration



Communication



DETROIT LIONS

DETROIT LIONS

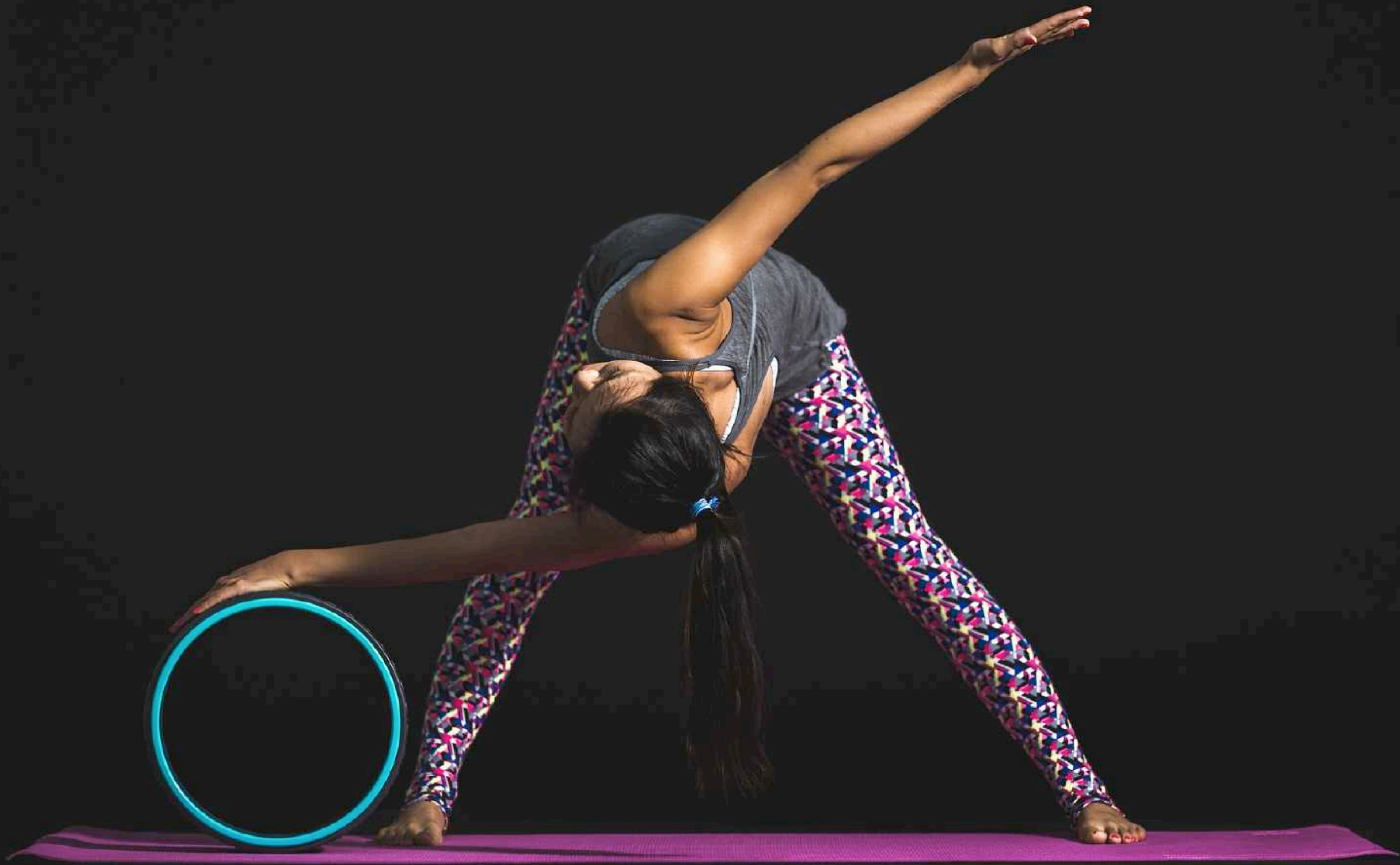
DETROIT LIONS

DETROIT LIONS

DETROIT LIONS

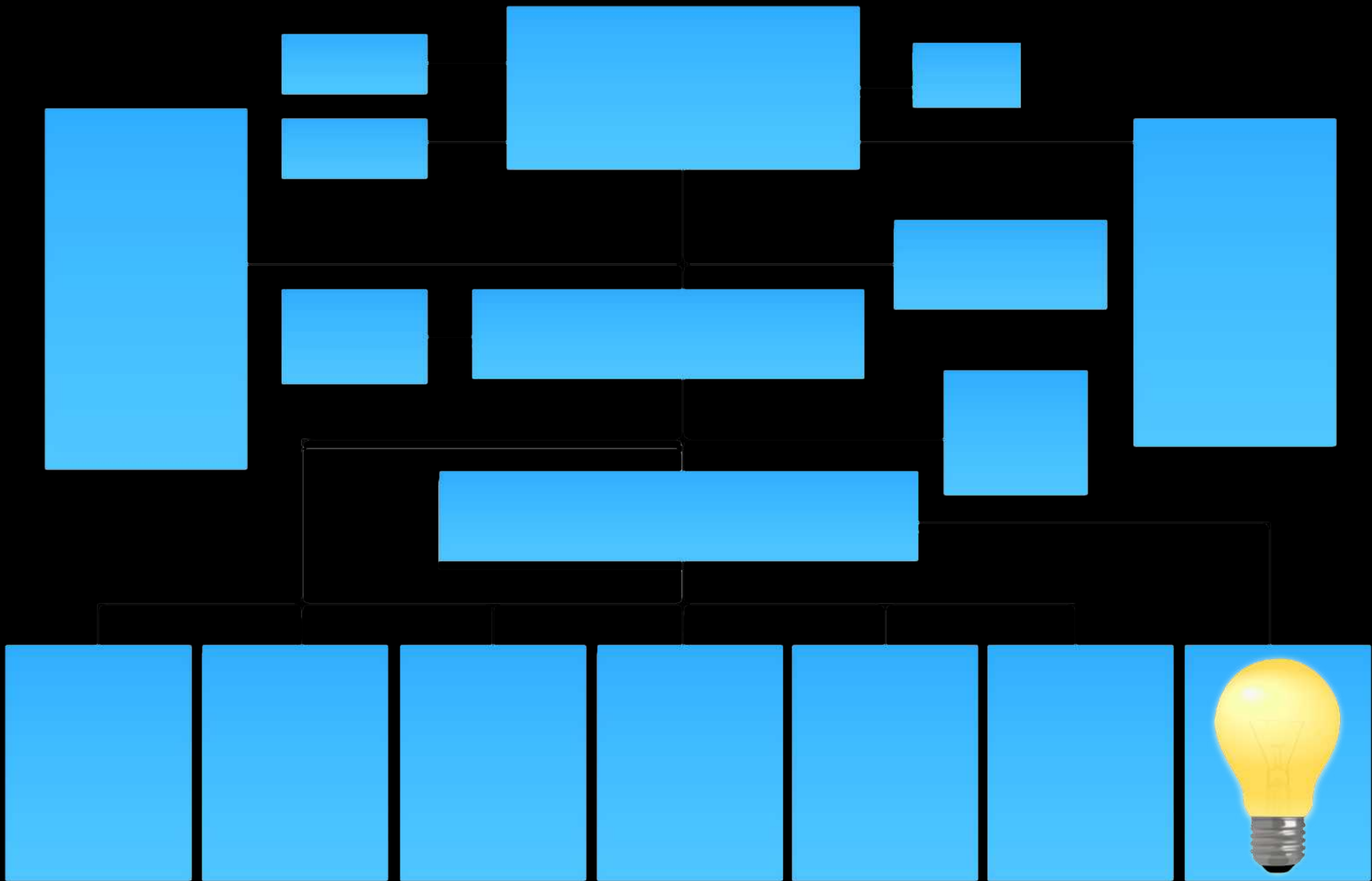
LIONS



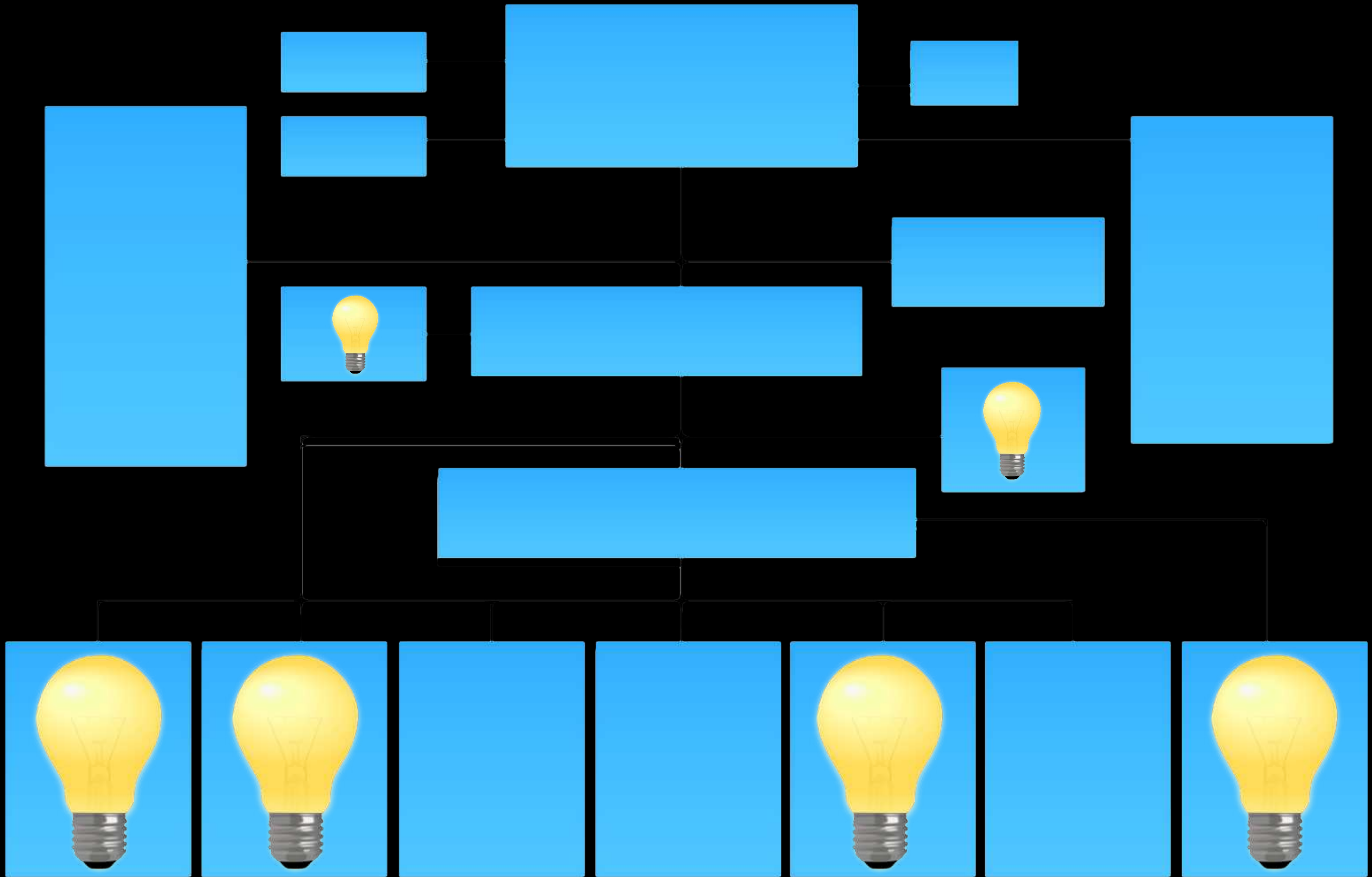




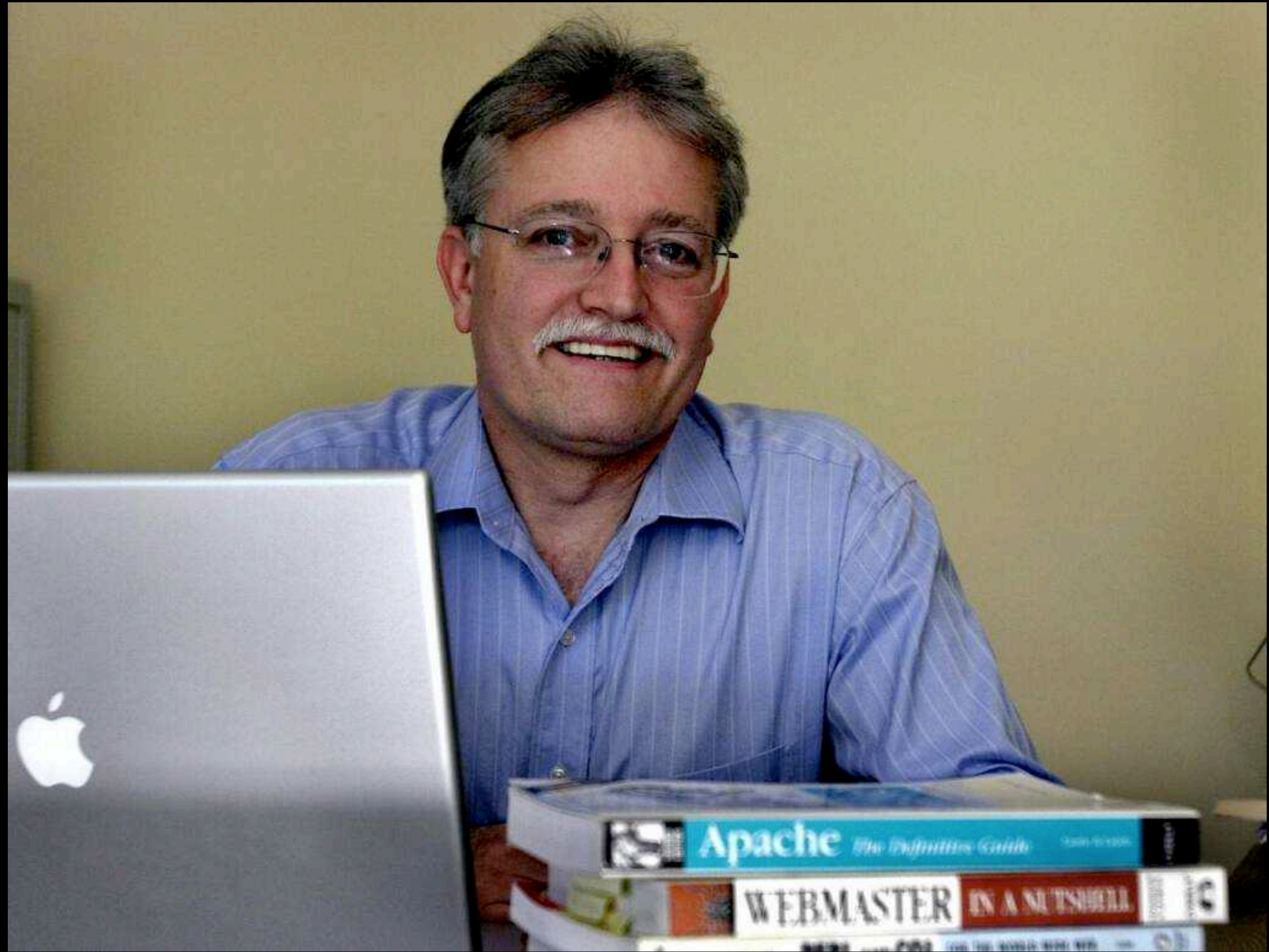




**Occupational position
is not
a statement of expertise**



Cataloguing



MARC
MUST

DIE

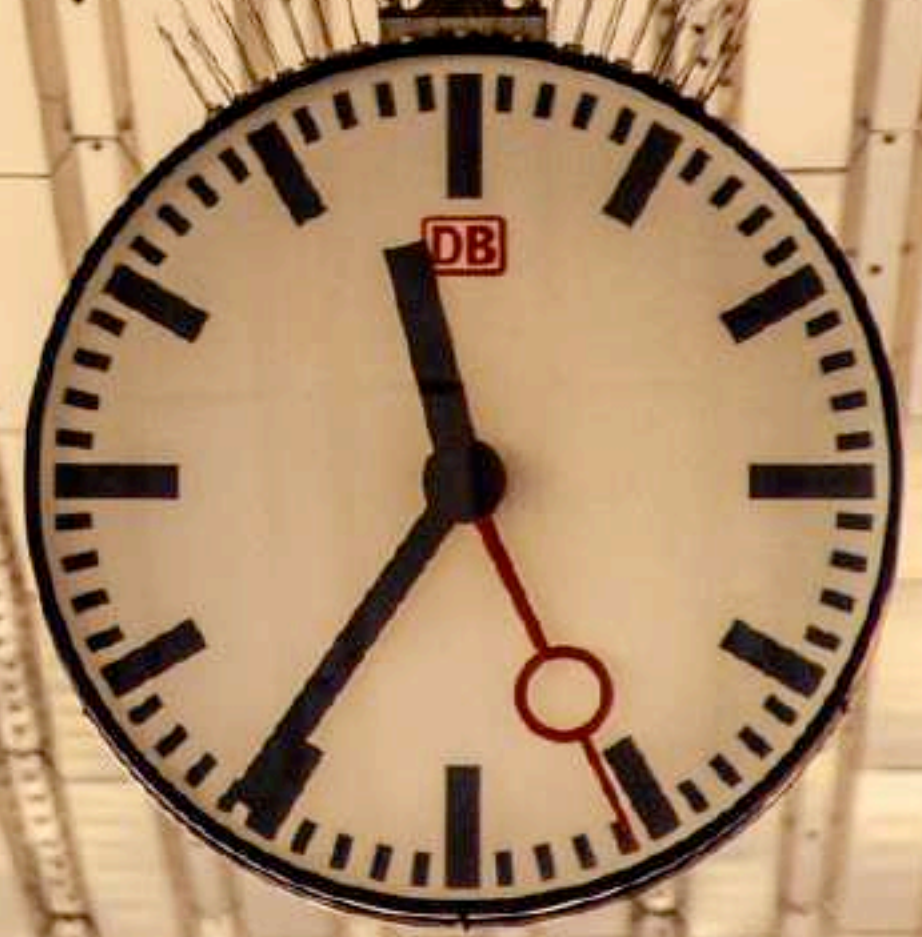
**There are two kinds of people who *believe*
they can read a MARC record without
referring to a stack of manuals:**







Uhhh...
WHAT?



MarcEditor

File Edit Reports Tools Task Lists Plugins

cam a22 c 4500

001 22518537

003 DLC

005 20220421171028.0

007 cr |||||

007 cr |||||

008 091116s2010|||nyu ob 001 0|eng

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020 \$a9780230103900\$qalk. paper

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050 00 \$aPQ7082.S34

082 00 \$a863/.087620998\$222

100 1 \$aBrown, J. Andrew,\$d1970-\$1http://id.loc.gov/rwo/agents/n2004043130\$econtributor\$4http://id.loc.gov/vocabulary/relators/ctb

245 10 \$aCyborgs in Latin America\$cJ. Andrew Brown

250 \$a1st ed.

264 1 \$aNew York\$bPalgrave Macmillan\$c2010

300 \$a1 electronic resource (xi, 212 pages)

334 \$asingle unit\$bmono\$0http://id.loc.gov/vocabulary/issuance/mono

336 \$atext\$btxt\$0http://id.loc.gov/vocabulary/contentTypes/txt

337 \$acomputer\$bc\$0http://id.loc.gov/vocabulary/mediaTypes/c

337 \$3Electronic resource\$acomputer\$bc\$0http://id.loc.gov/vocabulary/mediaTypes/c

338 \$aonline resource\$bcr\$0http://id.loc.gov/vocabulary/carriers/cr

338 \$3Electronic resource\$aonline resource\$bcr\$0http://id.loc.gov/vocabulary/carriers/cr

353 \$abibliography\$bbibliography\$0http://id.loc.gov/vocabulary/msupplcont/bibliography

353 \$aindex\$bindex\$0http://id.loc.gov/vocabulary/msupplcont/index

504 \$aIncludes bibliographical references and index.

505 0 \$aPosthuman porteños: cyborg survivors in Argentine narrative and film -- Missing gender: the posthuman feminine in Alicia Borinsky, Carmen Boulosa, and Eugenia Prado -- Ripped stitches: mass media and televisual imaginaries in Rafael Courtoisie's narrative -- Neoliberal prosthetics in postdictatorial Argentina and Bolivia: Carlos Gamarro and Edmundo Paz Soldán -- Video heads and rewound bodies: cyborg memories in Rodrigo Fresán and Alberto Fuguet.

506 \$aUnrestricted online access

522 \$aLatin America

540 \$aCreative Commons Attribution-NonCommercial-NoDerivatives 3.0 Unported CC BY-NC-ND 3.0\$uhttps://creativecommons.org/licenses/by-nc-nd/3.0/legalcode

588 \$aDescription based on print version record; resource not viewed.

650 0 \$aCyborgs in literature\$0http://id.loc.gov/authorities/subjects/sh2004005880

650 0 \$aCyborgs in mass media\$0http://id.loc.gov/authorities/subjects/sh95006316

650 0 \$aCyborgs in motion pictures\$0http://id.loc.gov/authorities/subjects/sh95004756

650 0 \$aSpanish American fiction\$y20th century\$xHistory and criticism\$0http://id.loc.gov/authorities/subjects/sh2008112111

856 4 \$uhttps://hdl.loc.gov/loc.gdc/gdcebookspublic.2020717962

884 \$aDLC bibframe2marc v2.5.0 (MarkLogic Corporation)\$g20240202090217.0\$qDLC\$uhttps://github.com/lcnetdev/bibframe2marc

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Ripped stitches: mass media and televisual imaginaries in Rafael Courtoisie's narrative -- Neoliberal prosthetics in postdictatorial Argentina and Bolivia: Carlos Gamerro and Edmundo Paz
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THEY'RE THE SAME PICTURE

imgflip.com

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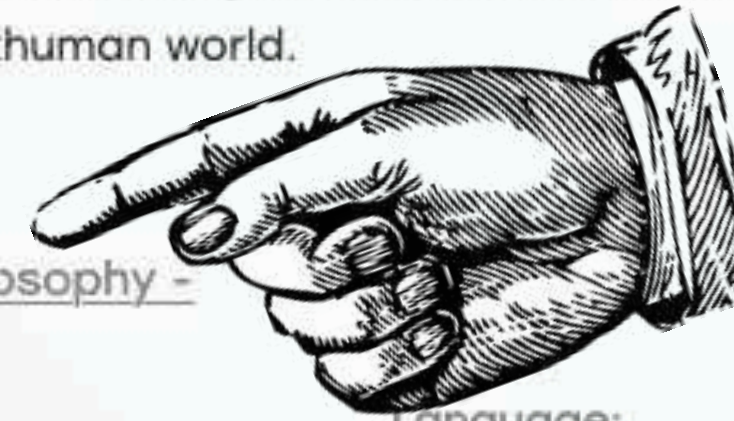
Tokyo Cyberpunk: Posthumanism in Japanese Visual Culture

[Steven T. Brown](#)

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Engaging some of the most ground-breaking and thought-provoking anime, manga, and science fiction films, *Tokyo Cyberpunk* offers insightful analysis of Japanese visual culture. Steven T. Brown draws new conclusions about electronically mediated forms of social interaction, as well as specific Japanese socioeconomic issues, all in the context of globalization and advanced capitalism. Penetrating and nuanced, this book makes a major contribution to the debate about what it means to be human in a posthuman world.

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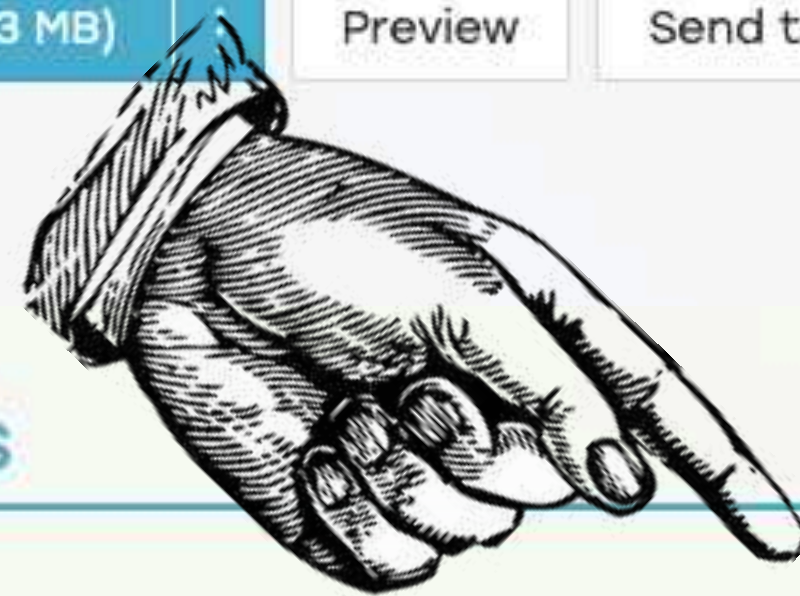
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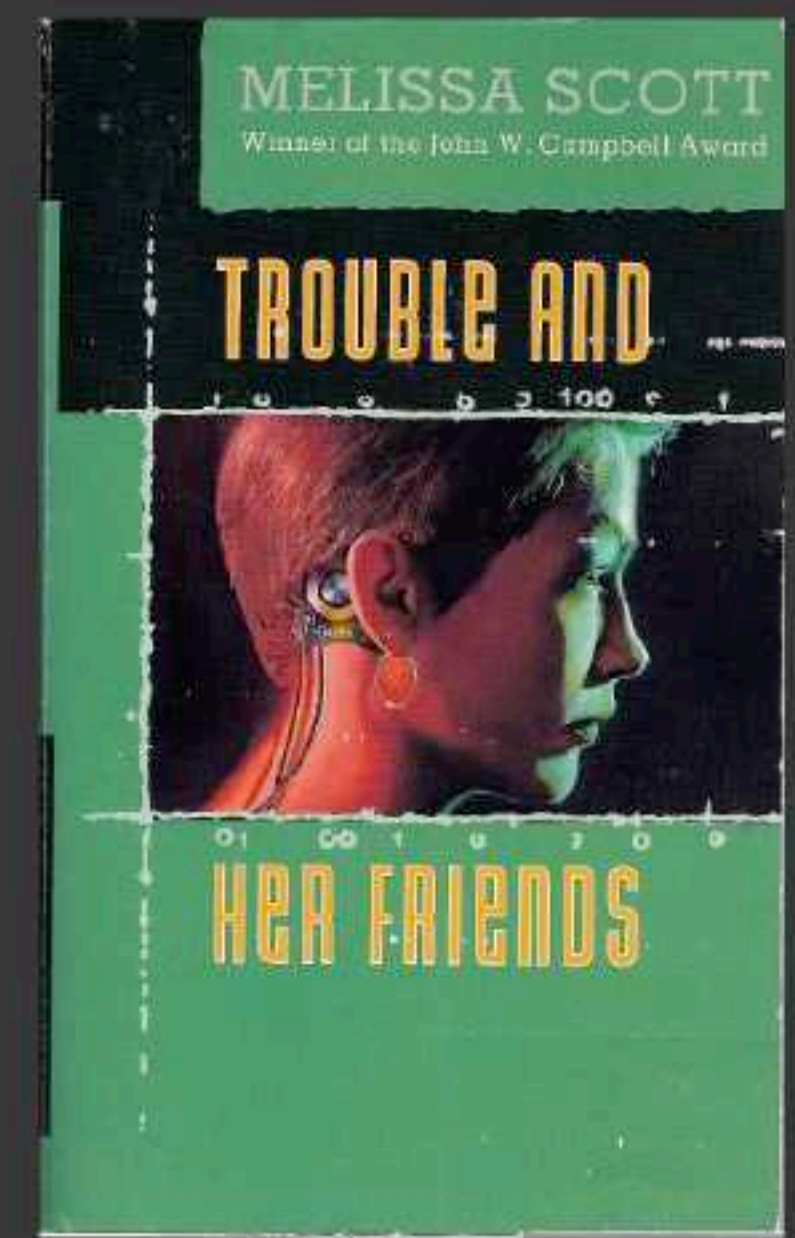
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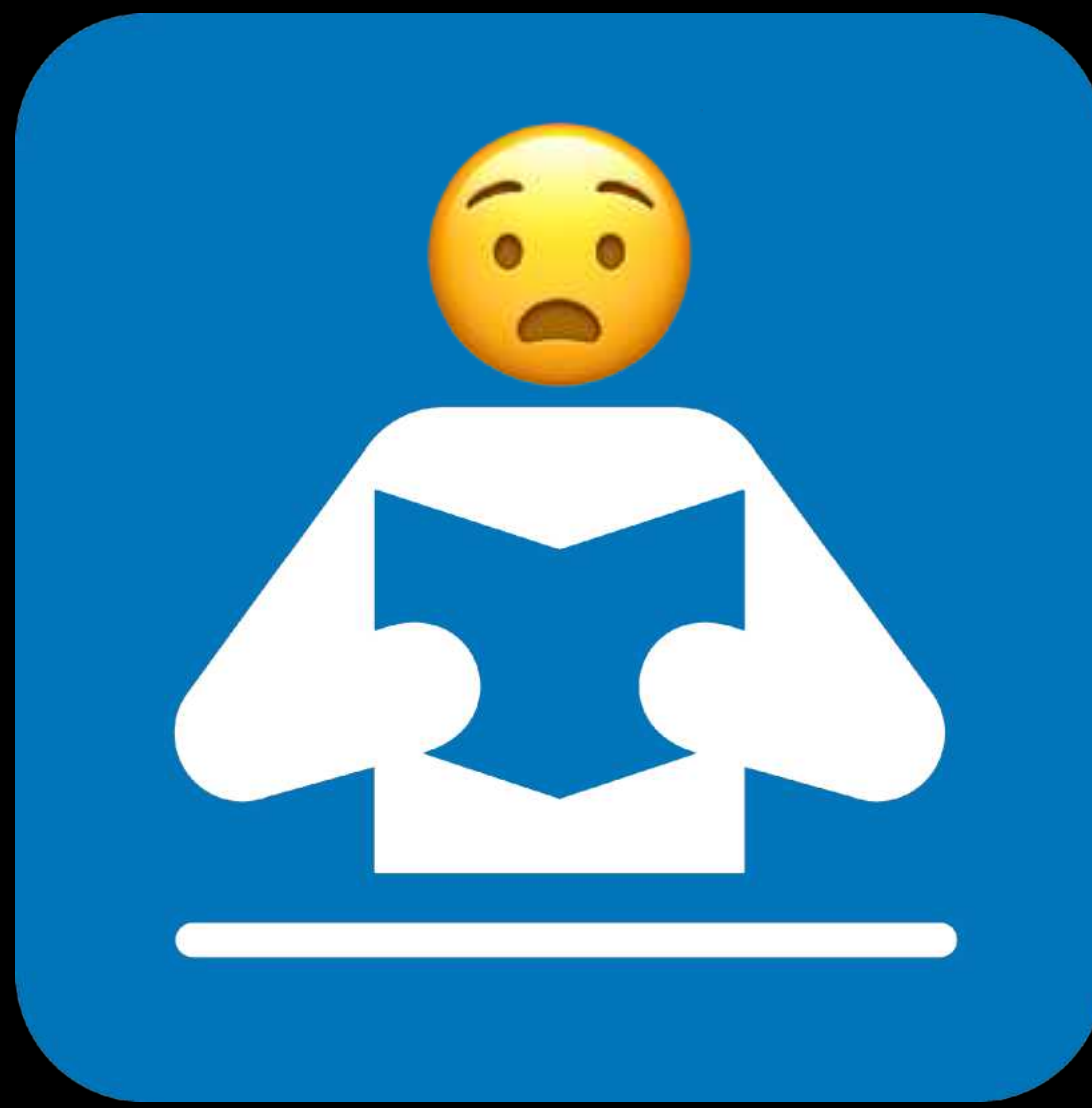
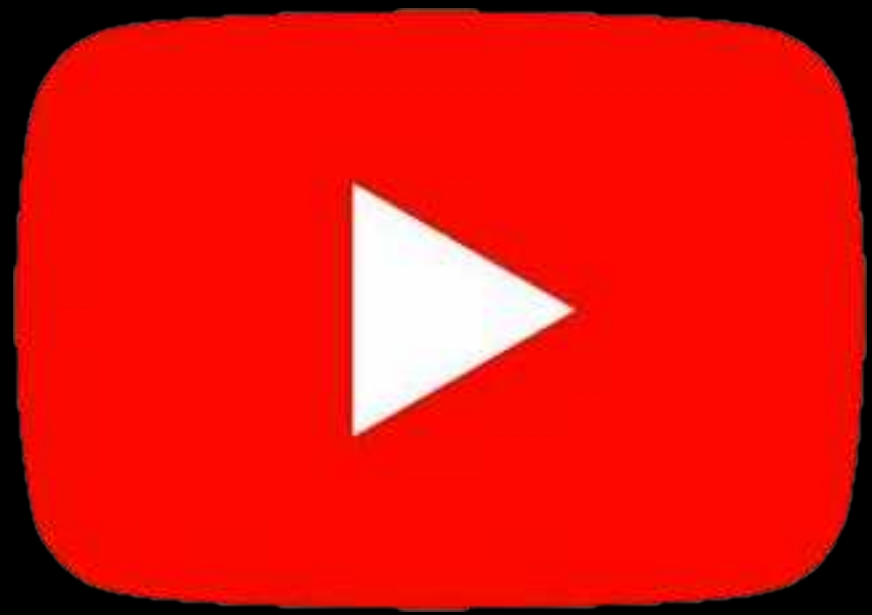
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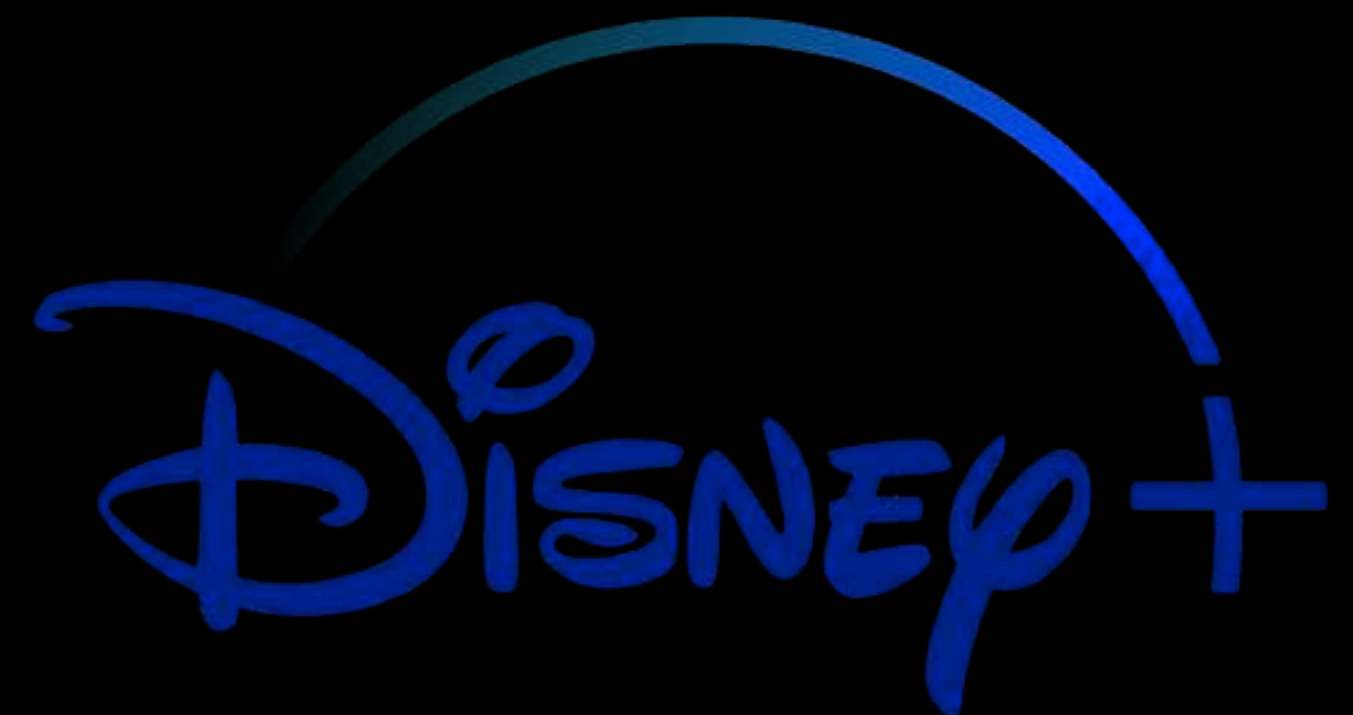
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Long-term orbital stability of exosolar planetary systems with highly eccentric orbits

Kyriaki I. Antoniadou¹ and George Voyatzis²
 Sect. of Astrophysics, Astronomy and Mechanics, Dept. of Physics,
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Abstract. Nowadays, many extrasolar planetary systems possessing at least one planet on a highly eccentric orbit have been discovered. In this work, we study the possible long-term stability of such systems. We consider the general three body problem as our model. Highly eccentric orbits are out of the Hill stability regions. However, mean motion resonances can provide phase protection and attempt to associate them with the existence of stable periodic orbits. The values based on the computation of chaotic indicators and we figure out regions in phase space, where the long-term stability is guaranteed. We construct maps of dynamical stability of eccentric and attempt to associate them with the existence of stable periodic orbits. The values of the orbital elements, which are derived from observational data, are often given with very large deviations. Generally, phase space regions of high eccentricities are narrow and thus, our dynamical analysis may restrict considerably the valid domain of the system's location.

Keywords. dynamical stability, periodic orbits, planetary systems.

With a vast amount of multiple extrasolar systems being discovered over the last two decades, we intend to address the following question: How can highly eccentric resonant exoplanets survive? A dynamical mechanism is offered by mean motion resonances (MMR), which can provide phase protection. Our study is based on two steps:
 (a) We compute families of periodic orbits in the planar general three body problem, which indicate the exact position of a MMR (e.g. Hadjidemetriou(2006), Antoniadou & Voyatzis(2014)) and compute their linear horizontal and vertical stability. The vertical critical orbits (vco) represent the bifurcation points that generate spatial periodic orbits (see Fig. 1a). We justify the MMR and symmetric or asymmetric configuration via librations of resonant angles and apsidal difference about particular angles (Fig. 1b) and depict the planetary evolution (Fig. 1c).
 (b) We construct maps of dynamical stability by creating grids defined by two variables (keep the rest orbital elements fixed) and compute the *de-trended* FLI (Voyatzis (2008)) for small values (visualized by dark colors) suggesting regular motion, or very large values (visualized by yellow color) indicating chaotic motion. The distinction between these cases is very sharp when the integration time of orbits is sufficiently large. Certainly, regular orbits guarantee long-term stability of planetary orbits.
 In the following figures, we present results for the 2/1 resonant dynamics of the two-planet system HD 82943b,c (see also Tan *et al.*(2013), Baluev & Beaugé(2014)). Maps are computed for the symmetric configuration, which is defined by the resonant angles $\theta_i = 2\lambda_2 - \lambda_1 - \varpi_i = 0, i = 1, 2$, where λ_i are the mean longitudes and ϖ_i the longitudes

Crossing the River: Exploring the Geography of Irish Traditional Music

DAITHÍ KEARNEY

The topography of the campus at University College Cork, which spans the River Suir, regularly reminds me of the interdisciplinary nature of my research. I find myself walking that river as I seek to explore and understand the geography of Irish music. Of primary concern in the geographical study of music are the variations of difference in the soundscape of different places. Differences in sound, in meaning of making music; the diffusion of musical ideas and institutions; processes and myths of identity, are all elements of this research. This article benefits of musical knowledge to the geographical understanding of music, reflexively the advantage of geographical investigation to the act of making music.

A number of factors that have provided the inspiration and stimulus for the development of my own research, alongside the growth of the field, has highlighted the possibility for interdisciplinary research in music. Here, I briefly assess developments in ethnomusicological and geographical research, concentrating particularly on the last fifty years. Moreover, this article concentrates on the link between the act of making music and national identity through musical performances.

Surrounded by water, Ireland has regularly sought to reinvent its identity. Changes in migration patterns, recent moves to the United States and the commemoration, in 2006, of the ninetieth anniversary of the Easter Rising, have focused attention back on the meaning of Irish identity. Irish traditional music has been assigned a central role in these discussions that are sometimes read or perceived in

This is a paper of the same title presented at the Annual Conference of the Society for Musicology in Ireland, May 2006, at Mary Immaculate College, Limerick. The author is a member of the Irish Musicology Society (2005-7) and the research represented here is supported by the Irish Research Council for the Humanities and Social Sciences.

공공도서관 OPAC 인터페이스의 발전방안 연구

A Study on the Development Plan of Public Library OPAC Interface

하은아 (Eun-Ah Ha)*
 이성숙 (Sung-Sook Lee)**

초록

이 연구의 목적은 공공도서관 OPAC 인터페이스의 발전방안을 제안하기 위한 것이며, 이를 위해 국내·외 공공도서관 OPAC 인터페이스의 사례를 분석하고, OPAC 인터페이스에 대한 이용자 요구를 조사하기 위하여 공공도서관 OPAC의 이용행태, 기능요구도, 개선사항을 중심으로 설문조사를 실시하였다. 공공도서관 OPAC 인터페이스는 인터페이스 설계 원칙을 준수하며 이용자 요구를 반영하여 설계되어야 한다. 이를 위해 자료에 대한 완전한 서지 레코드를 입력하여 OPAC의 다양한 기능 구현을 위한 기반을 제공해야 한다. 이 연구 결과는 공공도서관 OPAC 인터페이스의 설계에 기초자료로 활용될 수 있을 것이다.

ABSTRACT

The aim of this study is to propose a development plan of public library OPAC interface. For this purpose, the study analyzed cases of OPAC interface of domestic and overseas public libraries, and took a questionnaire survey on use types, level of functional demand and improvement matters of OPAC in order to examine the user requirements on OPAC interface. Public library OPAC interface must comply with interface design principle and reflect requirements of users. Accordingly, it must supply foundation to realize various OPAC functions by inputting perfect bibliographic records on resources. The research result could be used as basic resources for the public library OPAC interface design.

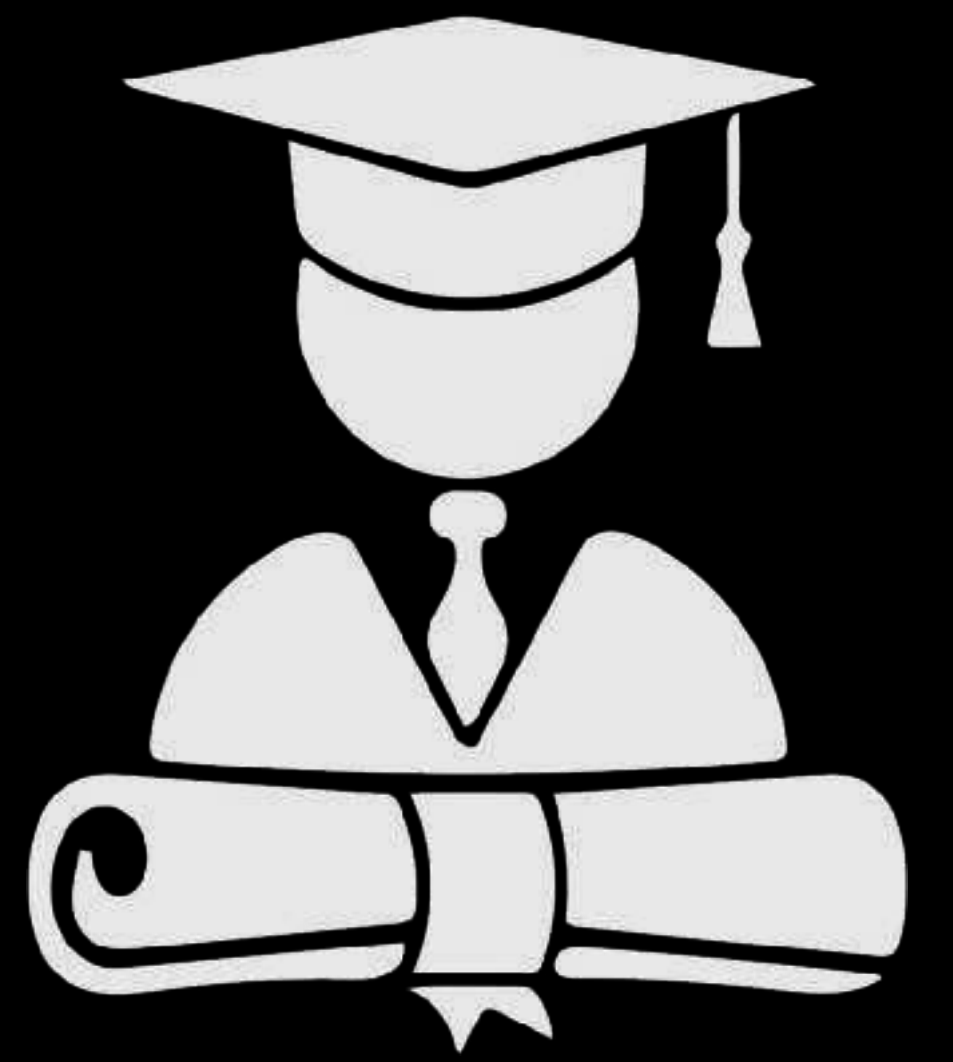
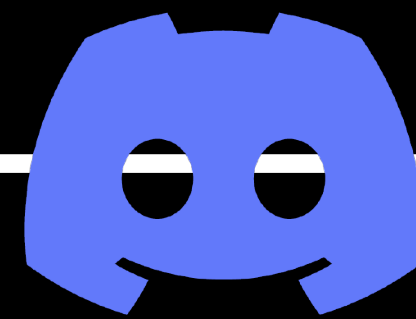
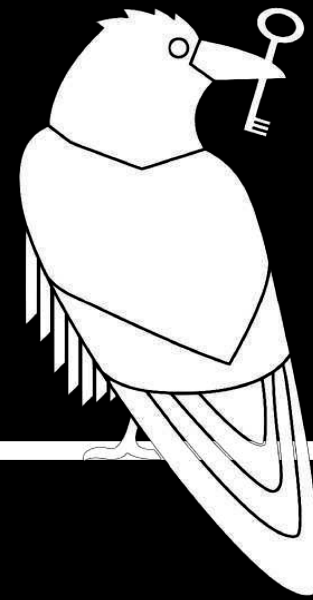
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 Public Library, OPAC, OPAC 2.0, Catalog 2.0, Next-generation Catalog, Interface

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matrix



An effective description of Laniakea: impact on cosmology and the local determination of the Hubble constant

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We propose an effective model to describe the bias induced on cosmological observables by Laniakea, the gravitational supercluster hosting the Milky Way, which was defined using peculiar velocity data from Cosmicflows-4 (CF4). The structure is well described by an ellipsoidal shape exhibiting triaxial expansion, reasonably approximated by a constant expansion rate along the principal axes. Our best fits suggest that the ellipsoid, after subtracting the background expansion, contracts along the two smaller axes and expands along the longest one, predicting an average expansion of ~ -1.1 km/s/Mpc. The different expansion rates within the region, relative to the mean cosmological expansion, induce line-of-sight-dependent corrections in the computation of luminosity distances. We apply these corrections to two low-redshift datasets: the Pantheon+ catalog of type Ia Supernovae (SN Ia), and 63 measurements of Surface Brightness Fluctuations (SBF) of early-type massive galaxies from the MASSIVE survey. We find corrections on the distances of order $\sim 2-3\%$, resulting in a shift in the inferred best-fit values of the Hubble constant H_0 of order $\Delta H_0^{\text{SN Ia}} \approx 0.5$ km/s/Mpc and $\Delta H_0^{\text{SBF}} \approx 1.1$ km/s/Mpc, seemingly worsening the Hubble tension.

I. INTRODUCTION

Roughly a century ago, astronomers collected evidence that we live in an expanding Universe [1]. To date, the most commonly accepted description of such an expansion is built upon the assumptions of homogeneity and isotropy of the Universe on sufficiently large scales, encoded in a class of solutions of the Einstein field equations based on the Friedmann-Lemaître-Robertson-Walker (FLRW) class of metrics:

$$ds^2 = -c^2 dt^2 + a^2(t) \left(\frac{dr^2}{1-Kr^2} + r^2 d\Omega^2 \right), \quad (1)$$

where K is the (constant) spatial curvature, and $a(t)$ is the scale factor. Null geodesics for the above metric indicate that the spectra of photons travelling in an expanding Universe shift towards the red. About two decades ago, observations of photons produced by the explosions of type Ia supernovae (SN Ia) provided evidence that the expansion of the Universe is accelerating [2, 3], challenging our understanding of gravity as a solely attractive force. Within the frameworks of General Relativity and FLRW models, such an acceleration requires an exotic source of energy-momentum labelled Dark Energy (DE). The standard cosmological model, the Λ CDM model (also dubbed concordance model), describes a spatially flat ($K=0$) FLRW Universe in which DE is interpreted as a cosmological constant Λ [4], and where most of the matter in the Universe is described by a collisionless, non-relativistic perfect fluid labelled Cold Dark Matter (CDM) [5].

The success and popularity of the concordance model comes from its effectiveness at describing a variety of cosmological observations with only 6 parameters [6–10]. On the other hand, their inference heavily relies on the existence of sources with standardized physical properties, which allow the computation of distances and the construction, after assuming that the law of physics are the same everywhere, of a cosmic “distance ladder”. To some extent, this jeopardizes the predictive power of the Λ CDM model since some of the hypotheses that we would like to verify through cosmological observations are sometimes assumed to interpret the observations themselves. To phrase it differently, it is not always possible to derive distances to standardized sources without assuming a cosmological model, which inevitably introduces biases in our cosmological inferences. One such bias could be our underlying assumptions of homogeneity and isotropy, i.e. the Cosmological Principle (CP). Whilst the latter seems a reasonable working assumption *a posteriori*, supported by a variety of uncorrelated observations [10–14], the existence of (large-scale) structures reveals the limits of the CP [15–22].

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Long-term orbital stability of exosolar planetary systems with highly eccentric

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Abstract. Nowadays, many extrasolar systems possessing at least one planet on a highly eccentric orbit have been discovered. We study the possible long-term stability of such systems. We consider the general three-body problem as our model. Highly eccentric orbits are out of the Hill stability region. Mean motion resonances can provide phase protection and orbits with long-term stability. We construct maps of dynamical stability based on the computation of chaotic regions in phase space, where the long-term stability is guaranteed. We study the stability of systems with at least one planet is highly eccentric and attempt to identify stable regions. The values of the orbital elements are given with very large deviations. Generalized stability is given with very large deviations. Generalized stability is given with very large deviations. Generalized stability is given with very large deviations. Generalized stability is given with very large deviations.

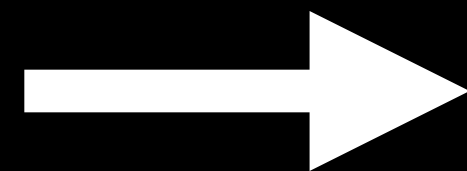
Keywords. dynamical stability, periodic orbits, planetary systems

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(a) We compute families of periodic orbits in the planar general three body problem, which indicate the exact position of a MMR (e.g. Hadjidemetriou(2006), Antoniadou & Voyatzis(2013)). We classify them in different configurations (e.g. Antoniadou & Voyatzis(2014)) and compute their linear horizontal and vertical stability. The vertical critical orbits (*vco*) represent the bifurcation points that generate spatial periodic orbits (see Fig. 1a). We justify the MMR and symmetric or asymmetric configuration via librations of resonant angles and apsidal difference about particular angles (Fig. 1b) and depict the planetary evolution (Fig. 1c).

(b) We construct maps of dynamical stability by creating grids defined by two variables (keep the rest orbital elements fixed) and compute the *de-trended* FLI (Voyatzis (2008)) for $t_{max} = 250\text{Ky}$ and finally, we visualize its value. The de-trended FLI takes either small values (visualized by dark colors) suggesting regular motion, or very large values (visualized by yellow color) indicating chaotic motion. The distinction between these cases is very sharp when the integration time of orbits is sufficiently large. Certainly, regular orbits guarantee long-term stability of planetary orbits.

In the following figures, we present results for the 2/1 resonant dynamics of the two-planet system HD 82943b,c (see also Tan *et al.*(2013), Baluev & Beaugé(2014)). Maps are computed for the symmetric configuration, which is defined by the resonant angles $\theta_i = 2\lambda_2 - \lambda_1 - \varpi_i = 0$, $i = 1, 2$, where λ_i are the mean longitudes and ϖ_i the longitudes



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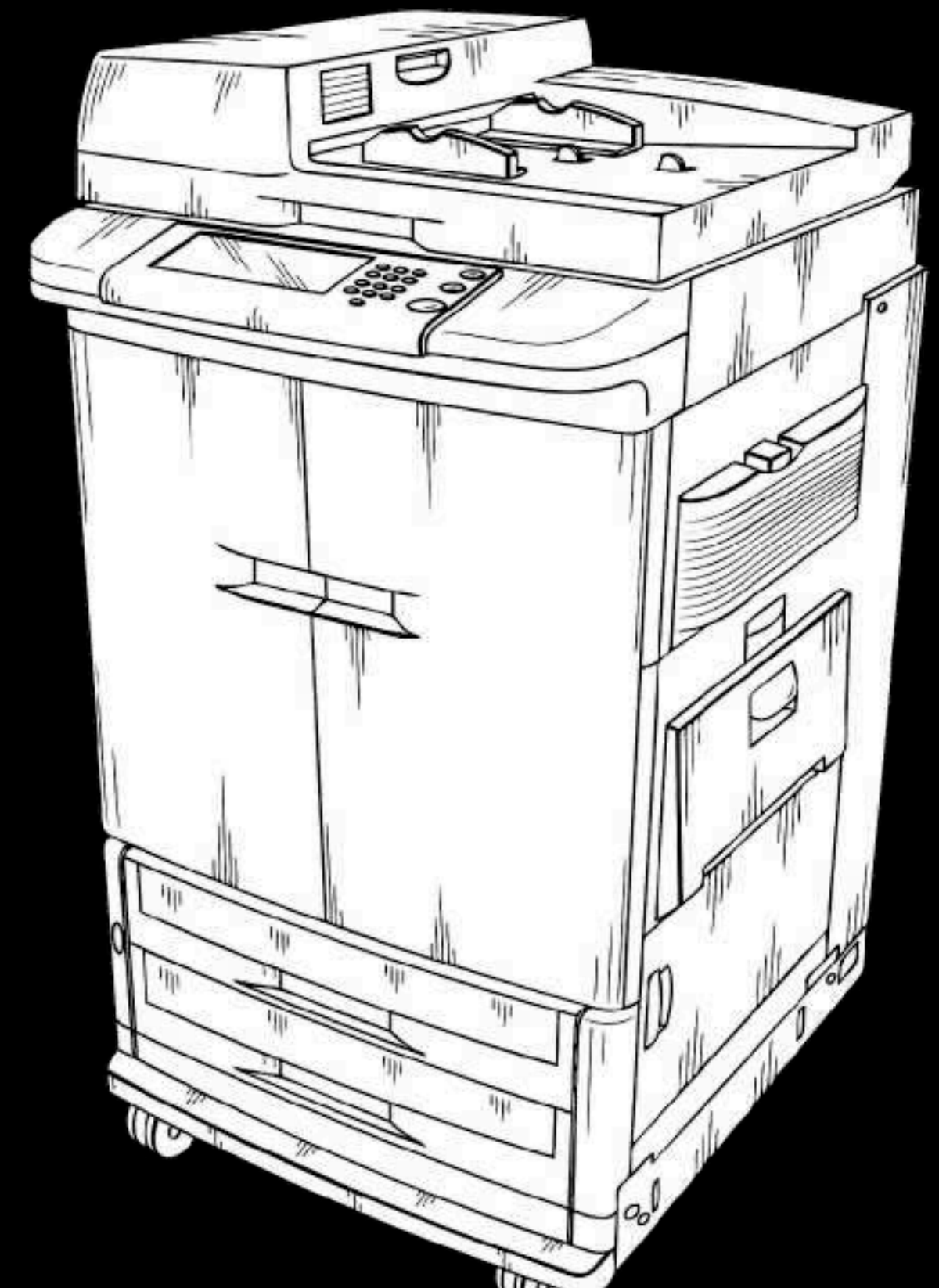
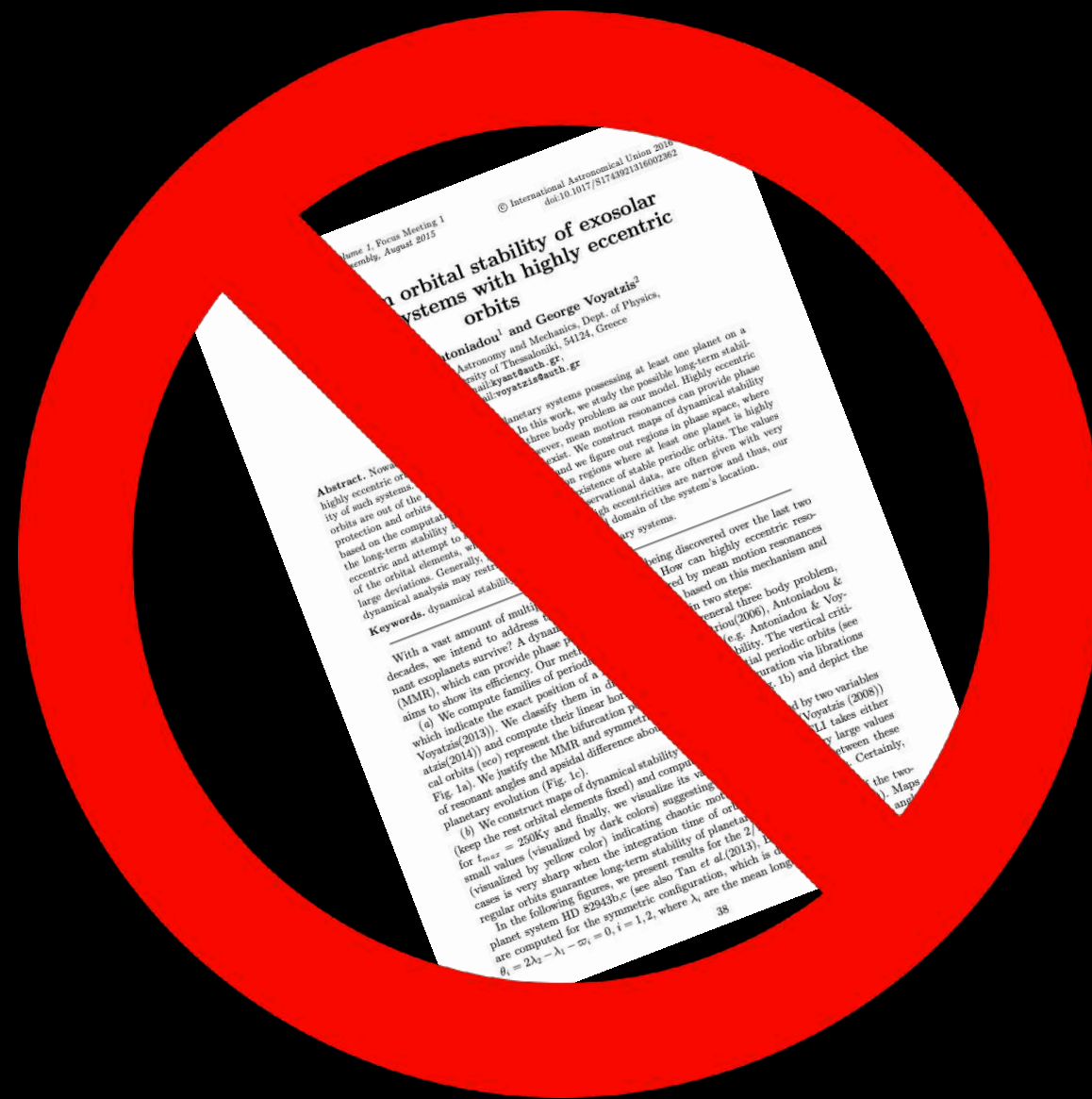
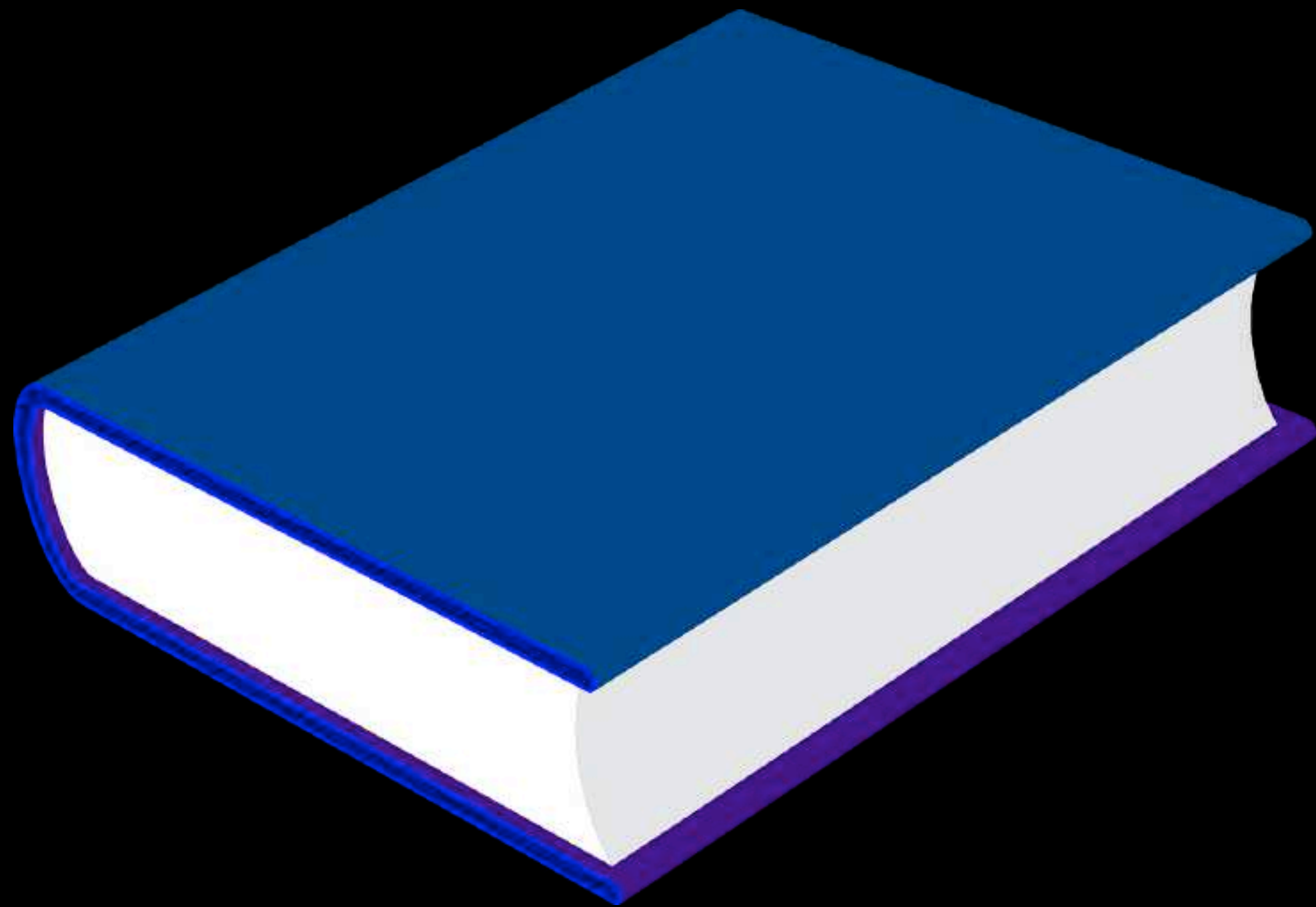
Keywords. dynamical stability, periodic orbits, planetary systems

With a vast amount of multiple extrasolar systems being discovered over the last two decades, we intend to address the following question: How can highly eccentric resonant exoplanets survive? A dynamical mechanism is offered by mean motion resonances (MMR), which can provide phase protection. Our study is based on this mechanism and aims to show its efficiency. Our methodology breaks down in two steps:

(a) We compute families of periodic orbits in the planar general three body problem, which indicate the exact position of a MMR (e.g. Hadjidemetriou(2006), Antoniadou & Voyatzis(2013)). We classify them in different configurations (e.g. Antoniadou & Voyatzis(2014)) and compute their linear horizontal and vertical stability. The vertical critical orbits (*vco*) represent the bifurcation points that generate spatial periodic orbits (see Fig. 1a). We justify the MMR and symmetric or asymmetric configuration via librations of resonant angles and apsidal difference about particular angles (Fig. 1b) and depict the planetary evolution (Fig. 1c).

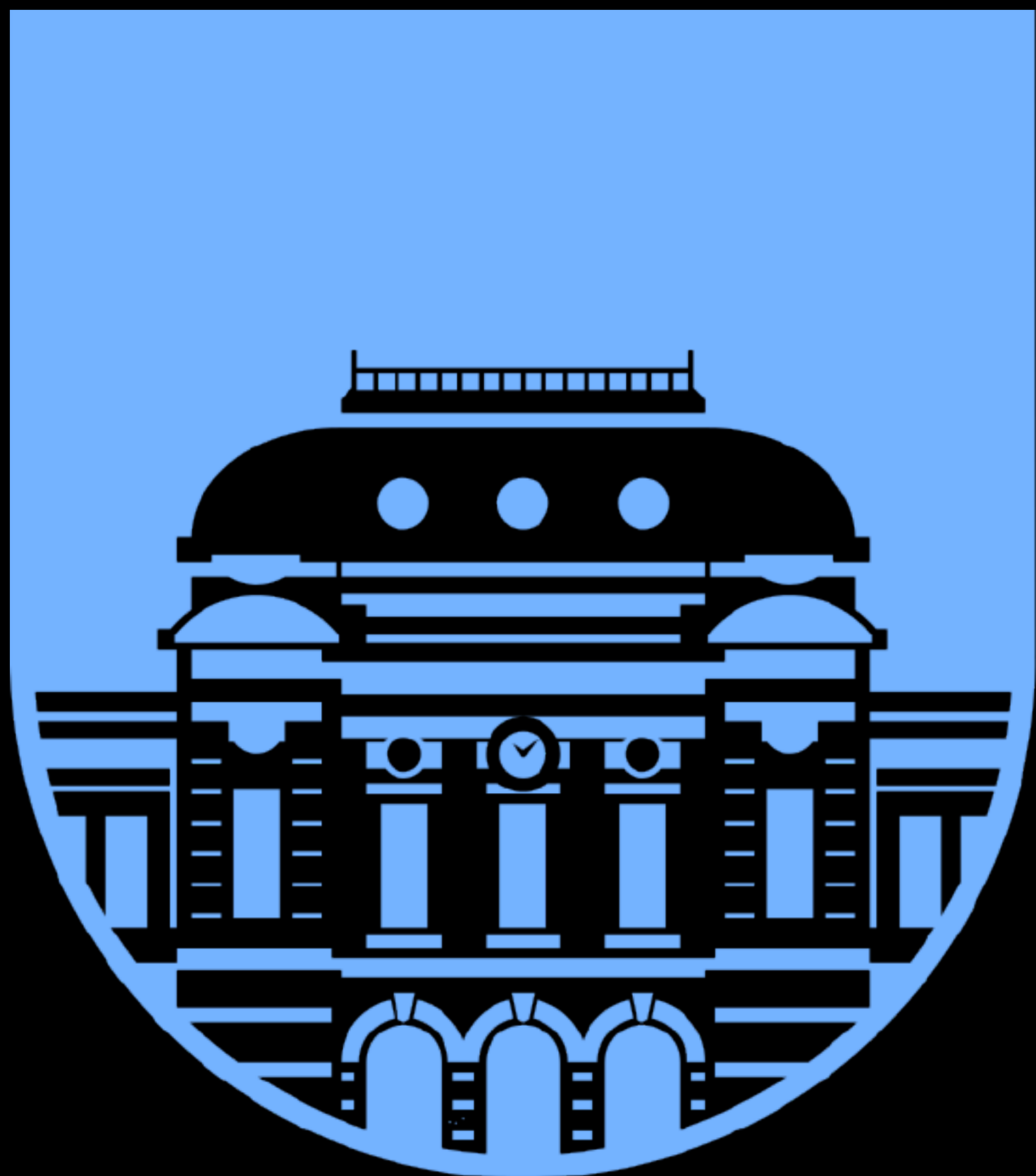
(b) We construct maps of dynamical stability by creating grids defined by two variables (keep the rest orbital elements fixed) and compute the *de-trended* FLI (Voyatzis (2008)) for $t_{max} = 250\text{Ky}$ and finally, we visualize its value. The de-trended FLI takes either small values (visualized by dark colors) suggesting regular motion, or very large values (visualized by yellow color) indicating chaotic motion. The distinction between these cases is very sharp when the integration time of orbits is sufficiently large. Certainly, regular orbits guarantee long-term stability of planetary orbits.

In the following figures, we present results for the 2/1 resonant dynamics of the two-planet system HD 82943b,c (see also Tan *et al.*(2013), Baluev & Beaugé(2014)). Maps are computed for the symmetric configuration, which is defined by the resonant angles $\theta_i = 2\lambda_2 - \lambda_1 - \varpi_i = 0$, $i = 1, 2$, where λ_i are the mean longitudes and ϖ_i the longitudes



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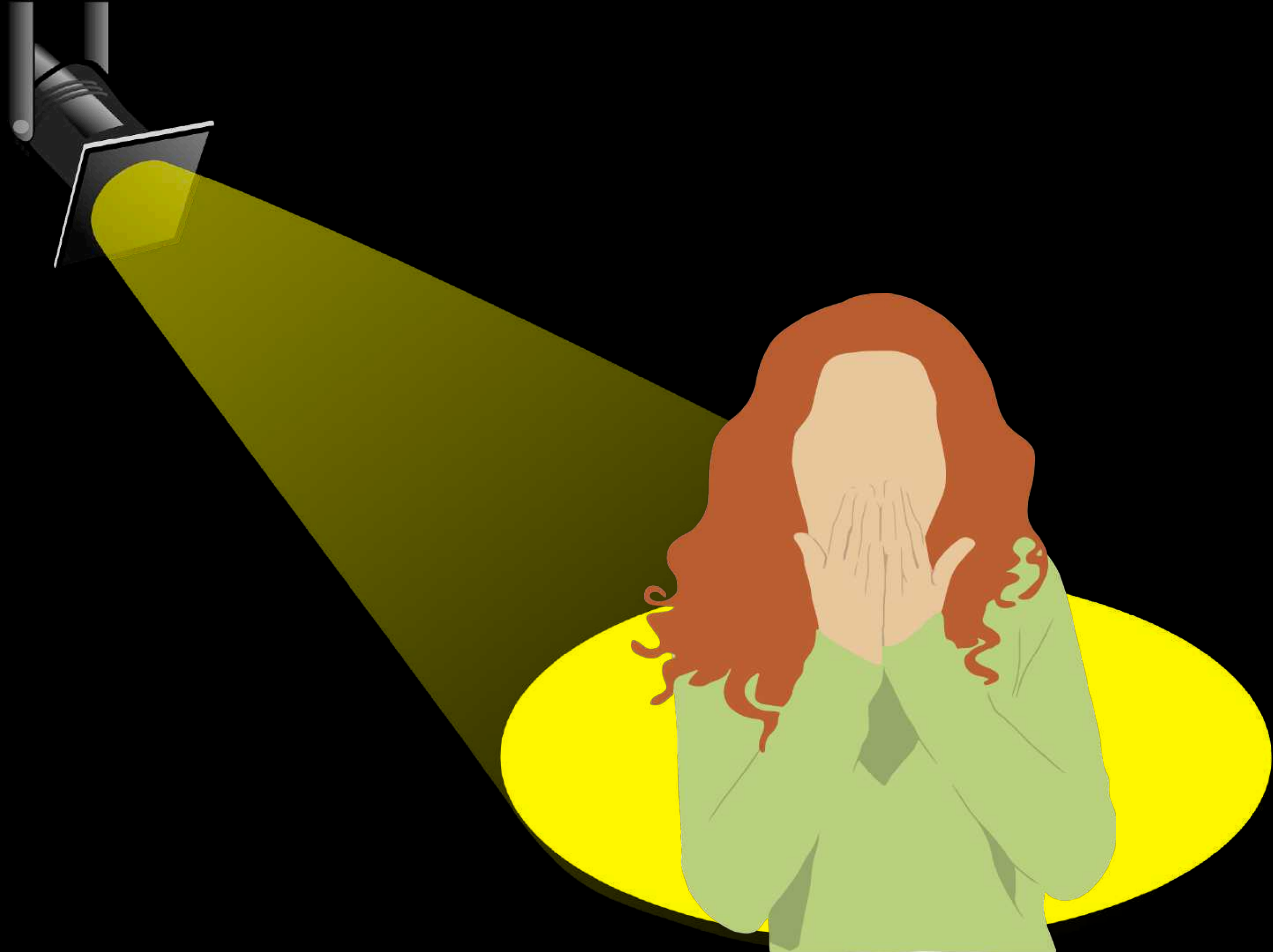
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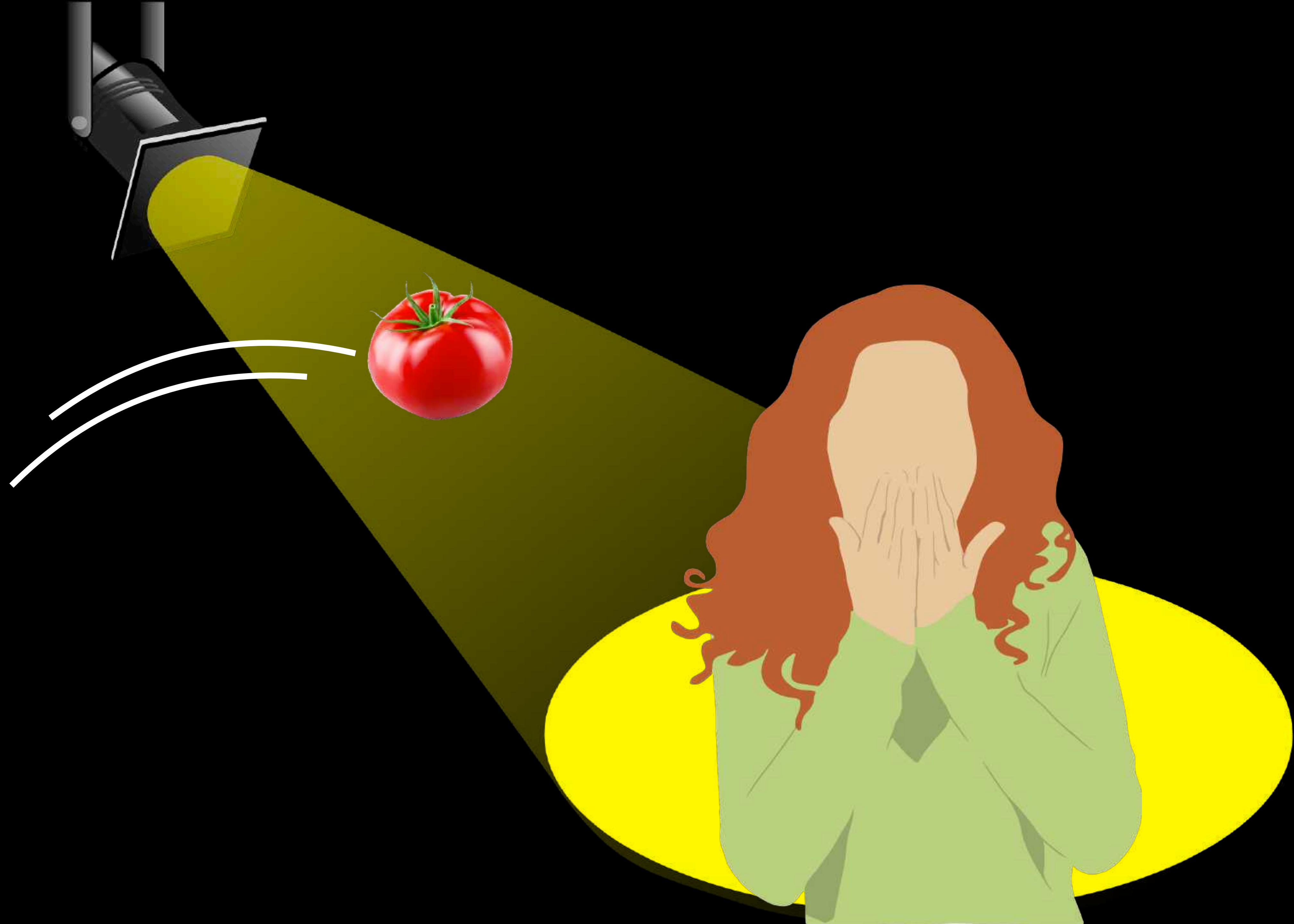


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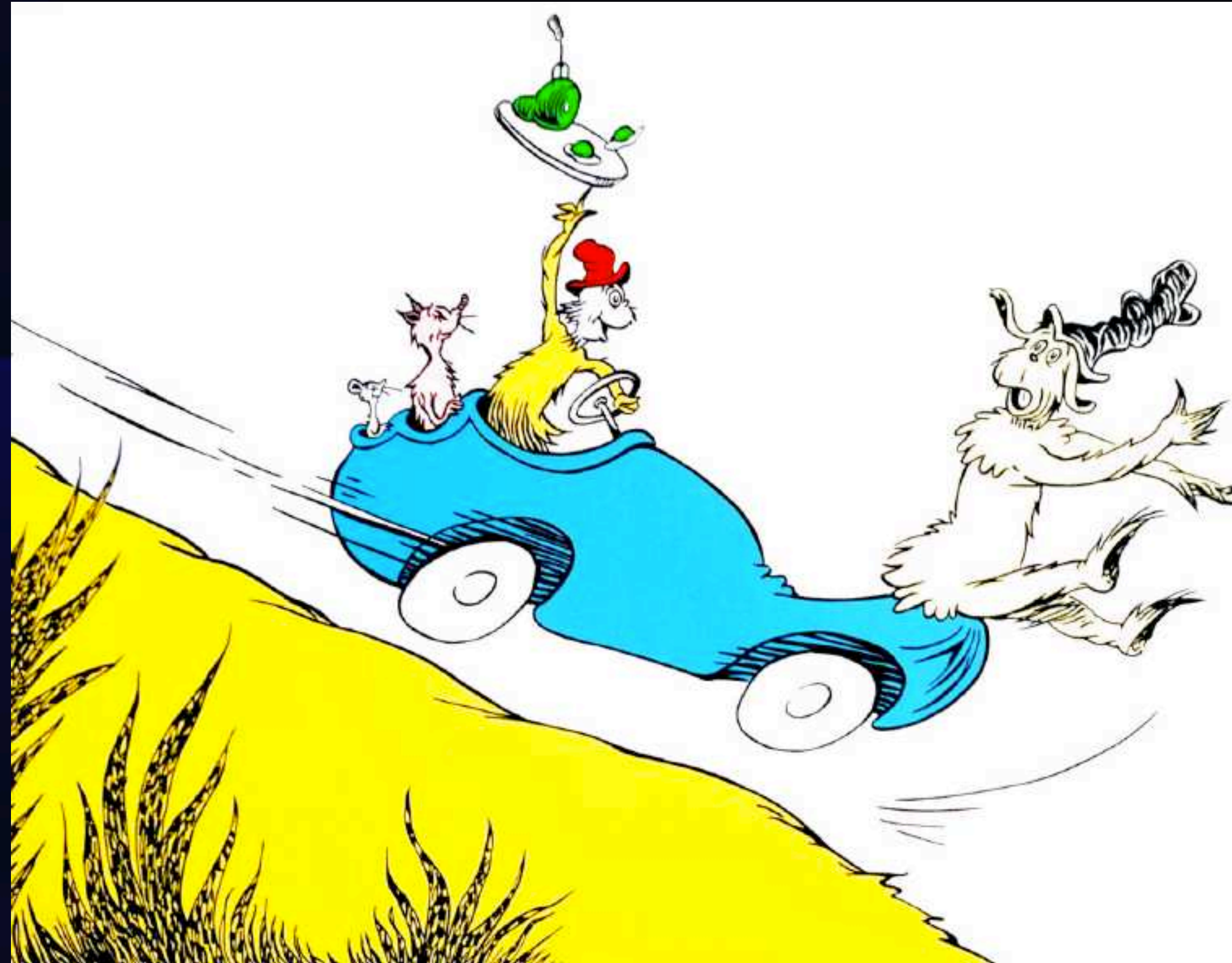
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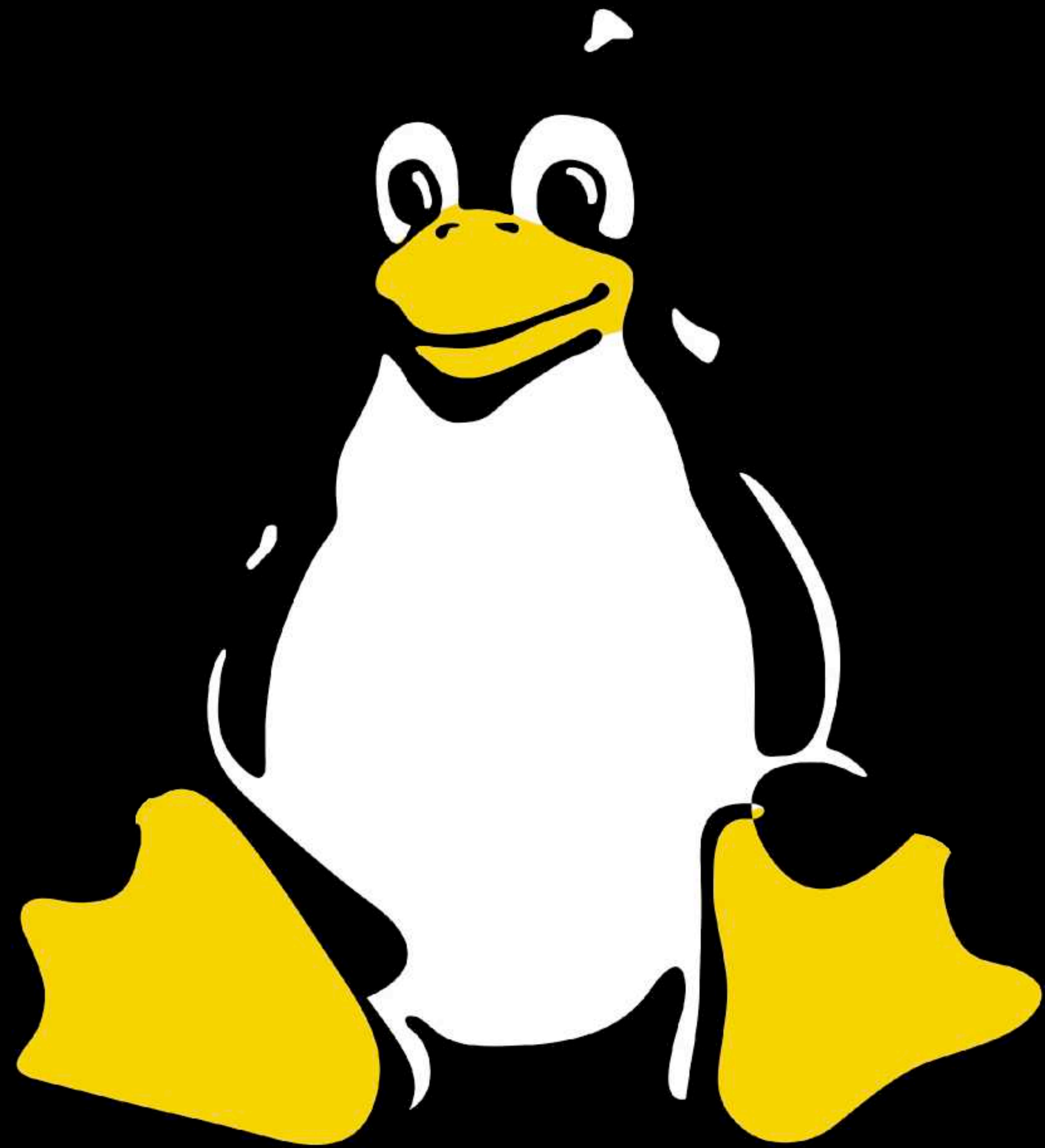
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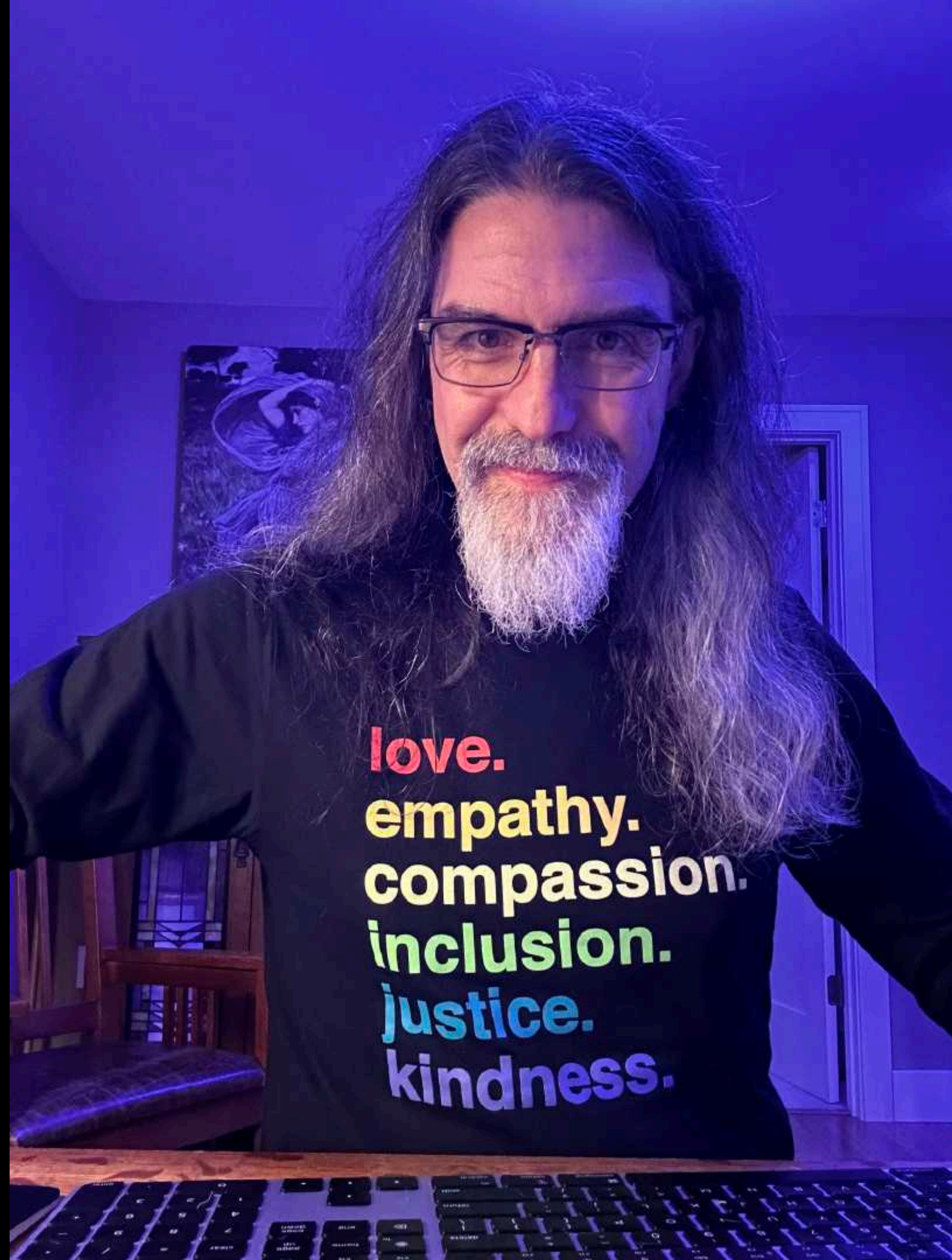
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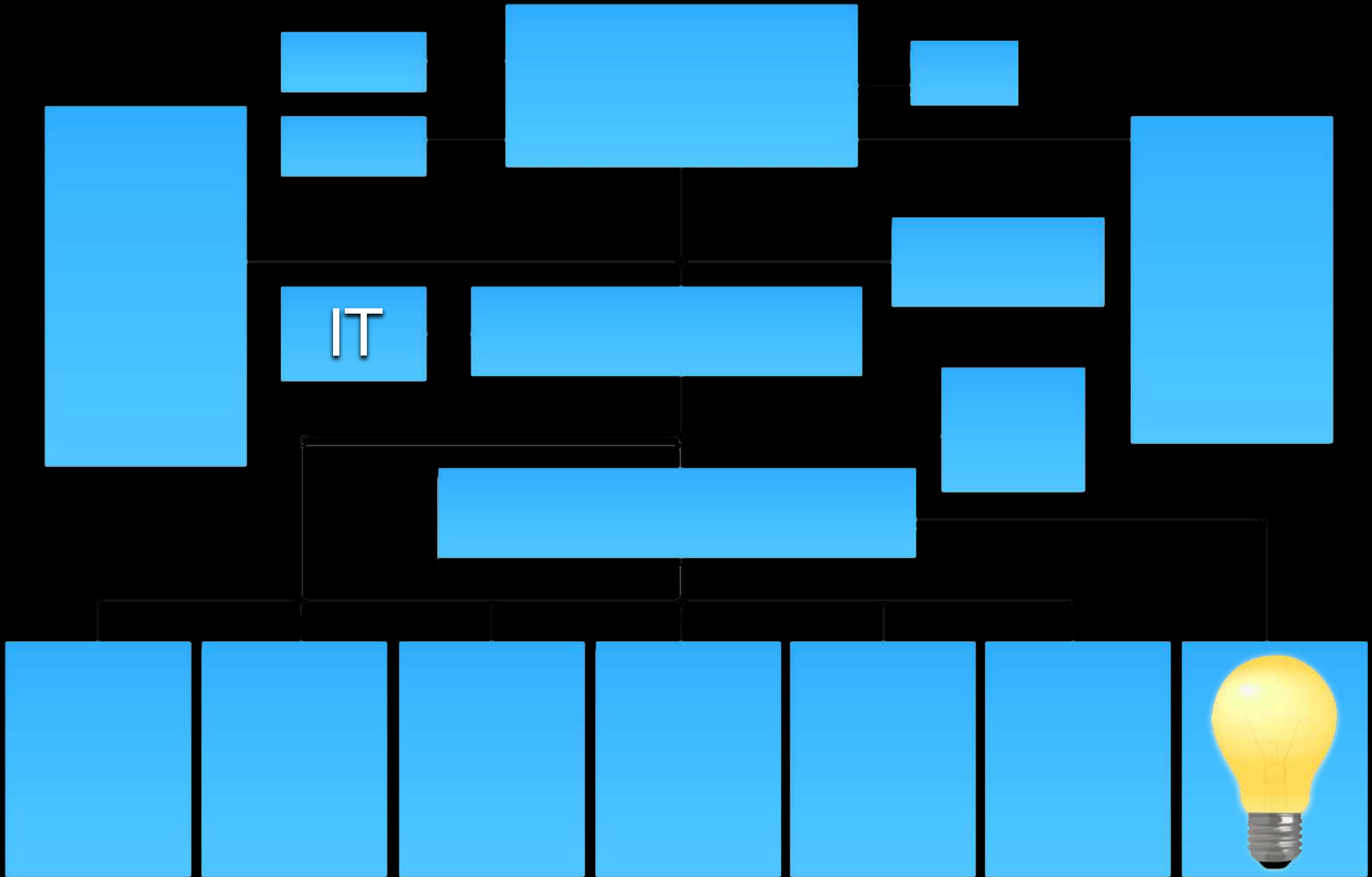
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Purposeful Role Initiating → Supporting

- Activities
1. Small/Convince group
 2. Local Activities
 3. SPN Meetings / Expat
 4. Organized events

- [IA]
- Startup Drinks (Megan)
 - IMCUPS
 - /ml visibility ^{SPN} ^{William} ^(Jonas)
 - BSM TechWk (Media Push)

KC

- [Lincoln]
- Open tables
 - welcome to jungle till on Friday
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 - Lincoln make's Annual
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- chimp
- mailer
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- ckgrounds
- ts
- x.php

```
78 . ltrim(preg_replace('/\\\\\\\\/', '/', $image_src), '/');
79 $_SESSION['_CAPTCHA']['config'] = serialize($captcha_config);
80
81 return array(
82     'code' => $captcha_config['code'],
83     'image_src' => $image_src
84 );
85 }
86
87
88 if( !function_exists('hex2rgb') ) {
89     function hex2rgb($hex_str, $return_string = false, $separator = ',') {
90         $hex_str = preg_replace("/[^0-9A-Fa-f]/", '', $hex_str); // Gets a proper hex string
91         $rgb_array = array();
92         if( strlen($hex_str) == 6 ) {
93             $color_val = hexdec($hex_str);
94             $rgb_array['r'] = 0xFF & ($color_val >> 0x10);
95             $rgb_array['g'] = 0xFF & ($color_val >> 0x8);
96             $rgb_array['b'] = 0xFF & $color_val;
97         } elseif( strlen($hex_str) == 3 ) {
98             $rgb_array['r'] = hexdec(str_repeat(substr($hex_str, 0, 1), 2));
99             $rgb_array['g'] = hexdec(str_repeat(substr($hex_str, 1, 1), 2));
100             $rgb_array['b'] = hexdec(str_repeat(substr($hex_str, 2, 1), 2));
101         } else {
102             return false;
103         }
104         return $return_string ? implode($separator, $rgb
105
106 // Draw the image
107 if( isset($_GET['c'])
```

⇒ SPN - $\frac{1}{2} = \frac{1}{20} \times 100 = 5\%$
⇒ $\frac{1}{20} = 5\%$

Community #Community

Purposeful Role Initiating → Supporting

- Activities
1. Small/Online group
 2. Local/Activities
 3. SPN Meetups/Expats
 4. Organized events

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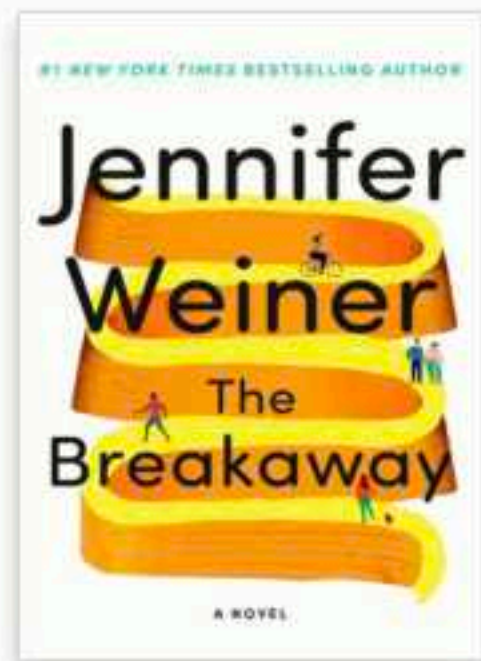


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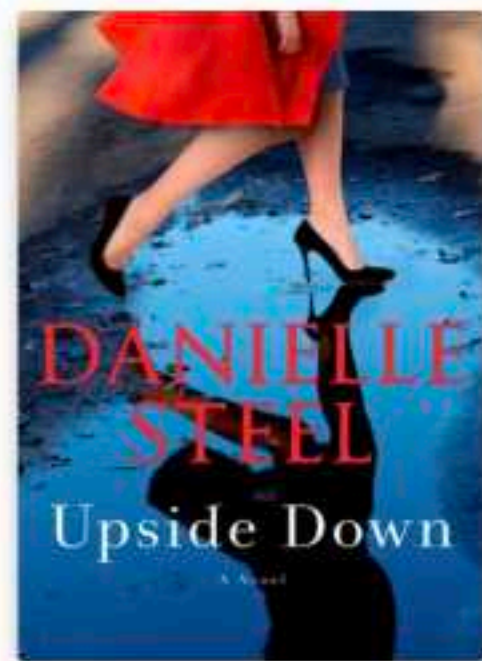
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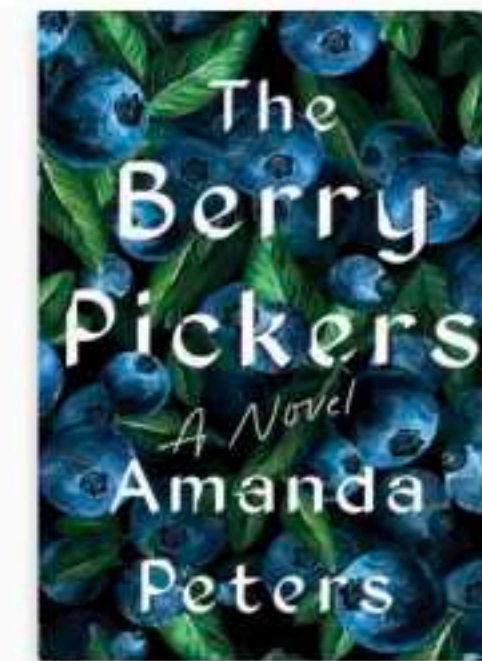
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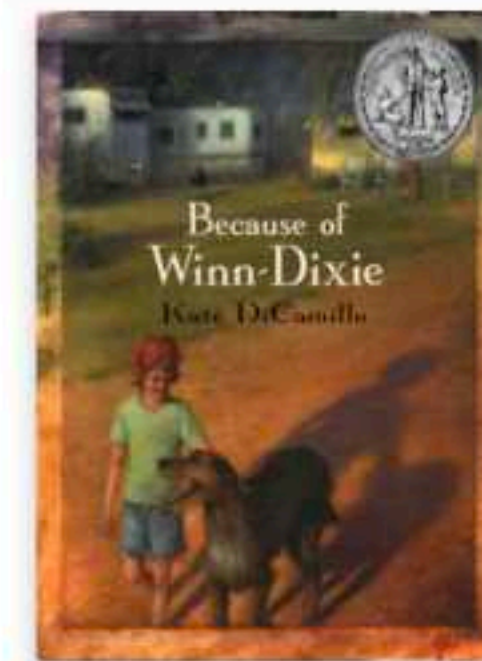
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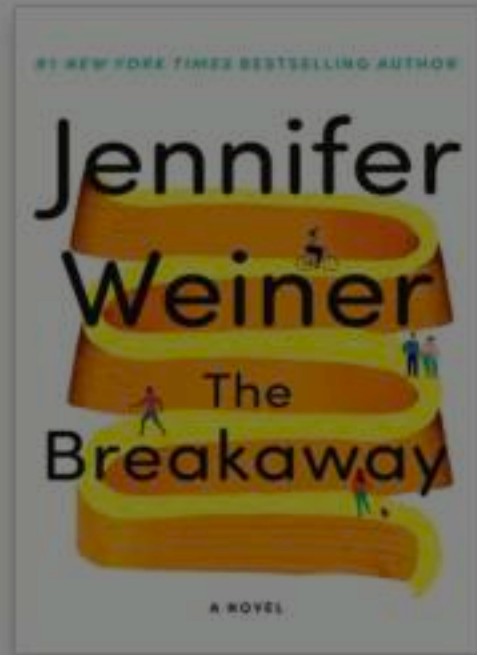


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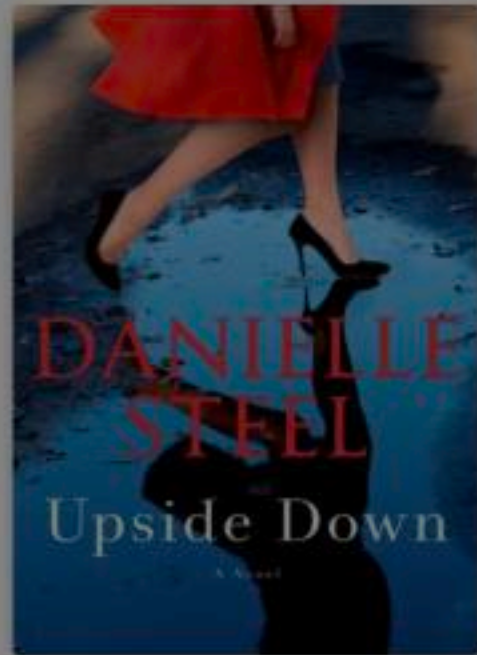
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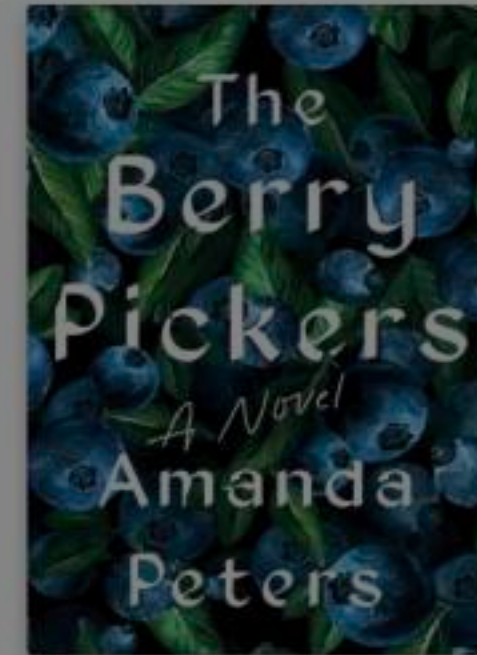
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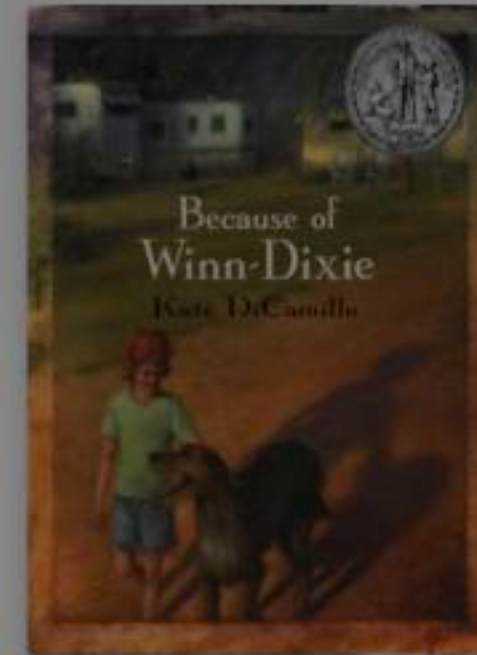
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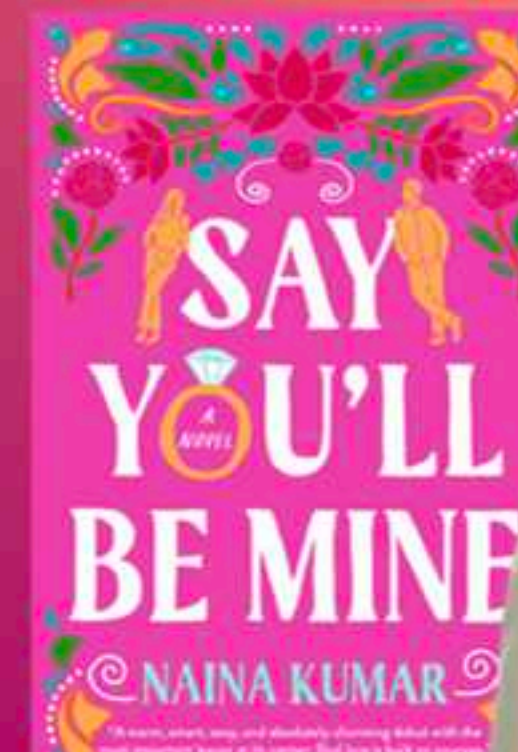
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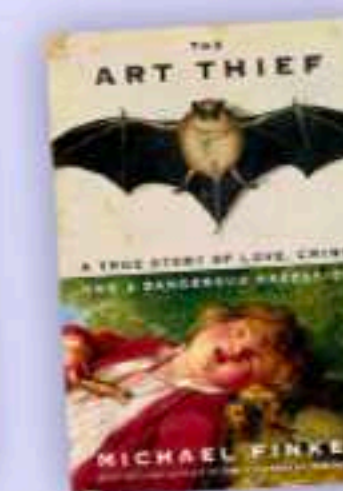
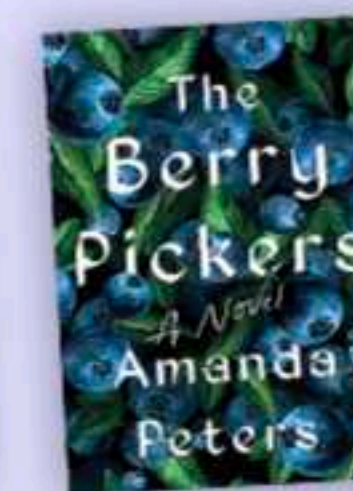
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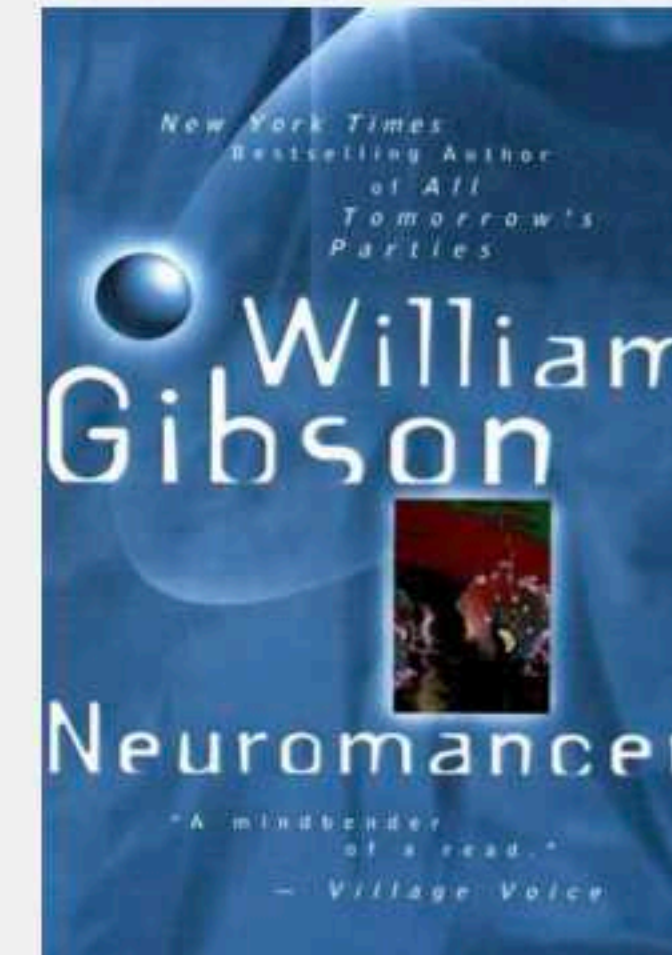
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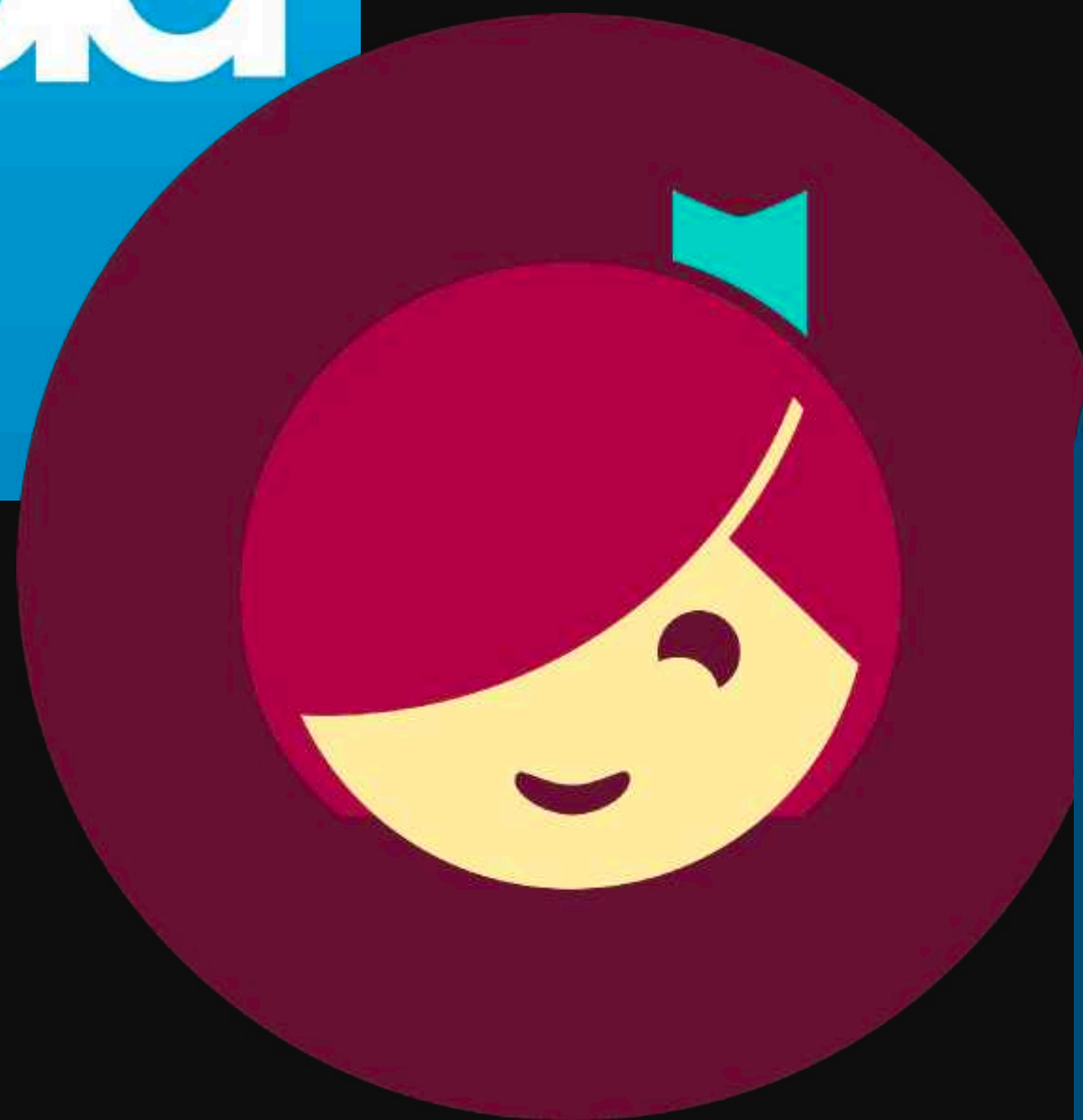
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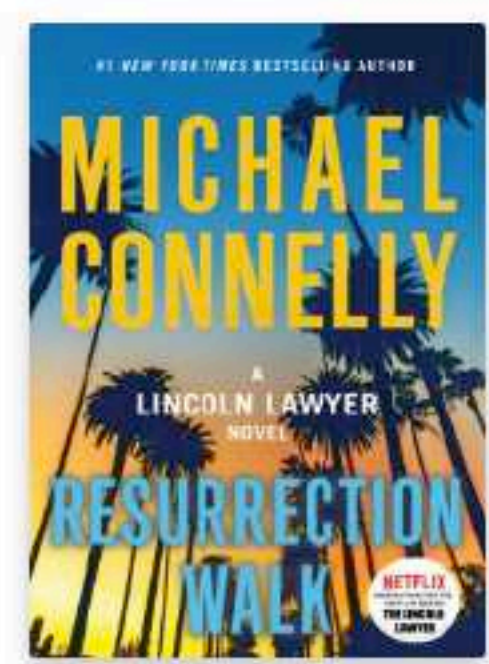
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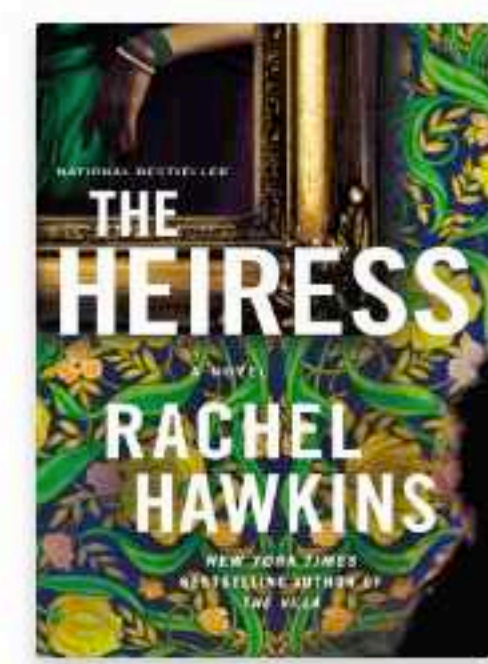
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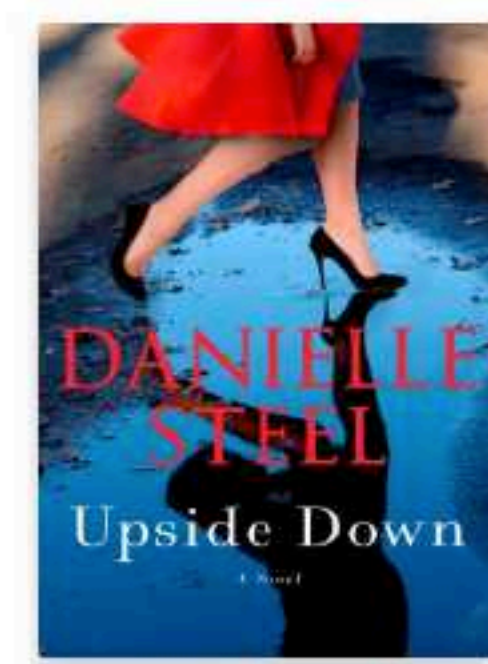
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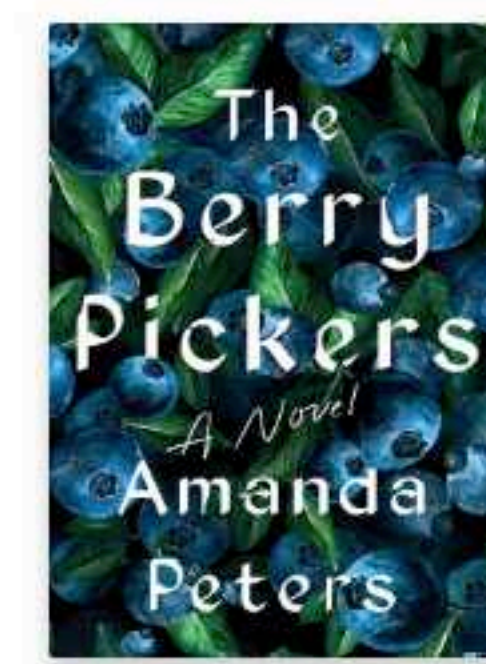
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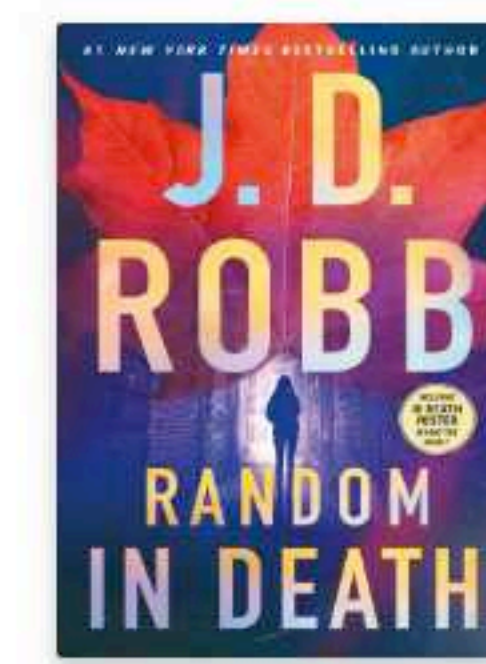
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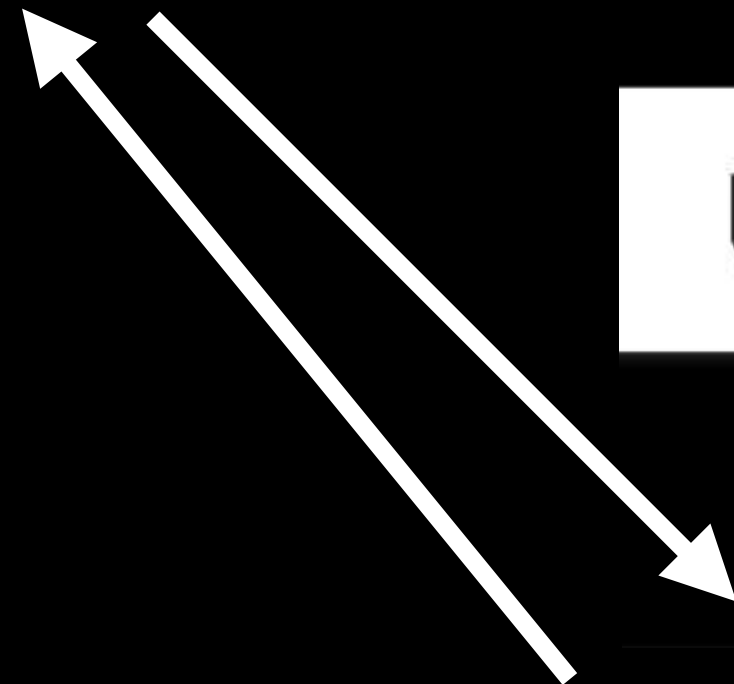
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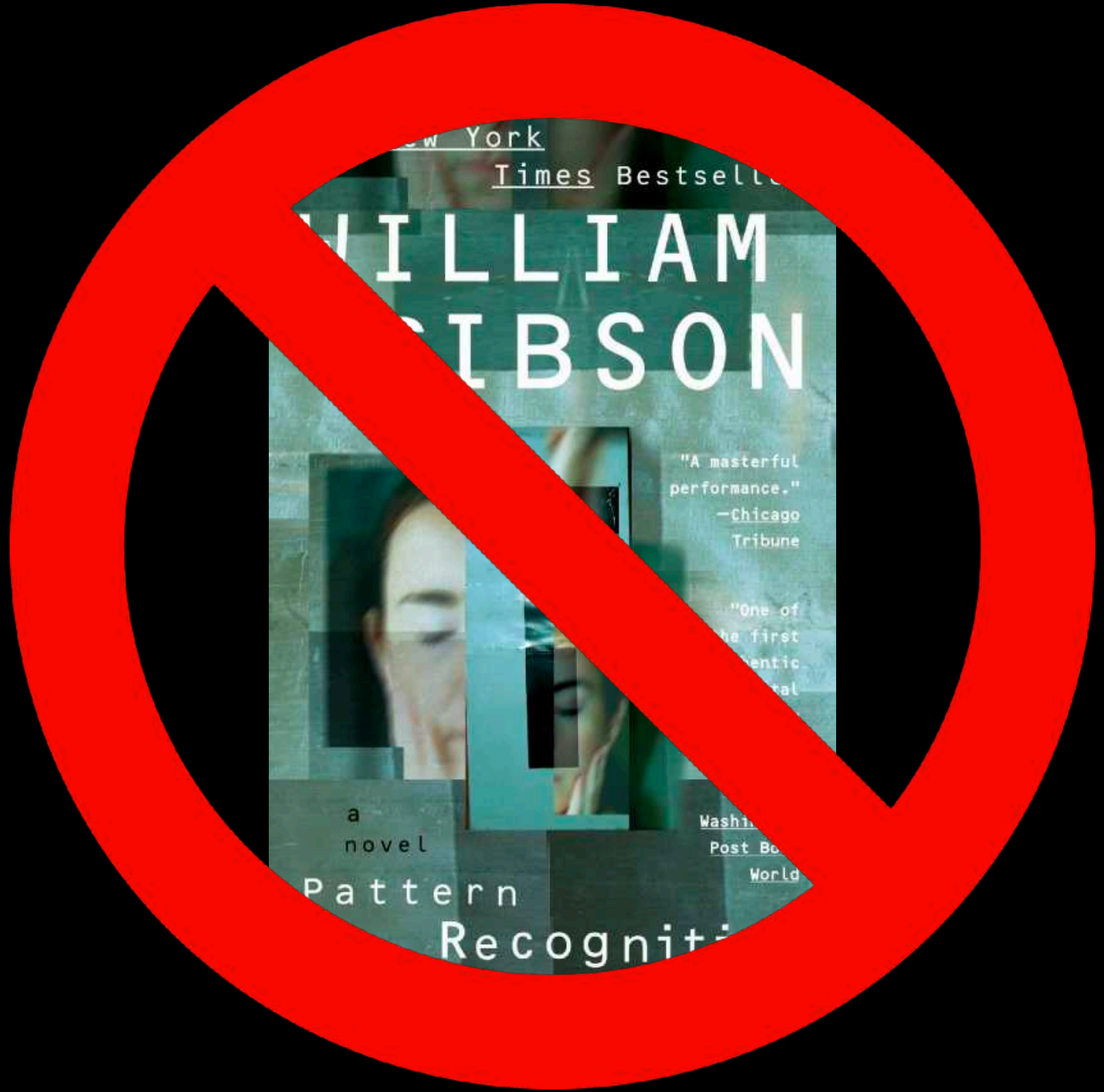
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novel

Pattern
Recognition



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Pattern Recognition 🔍

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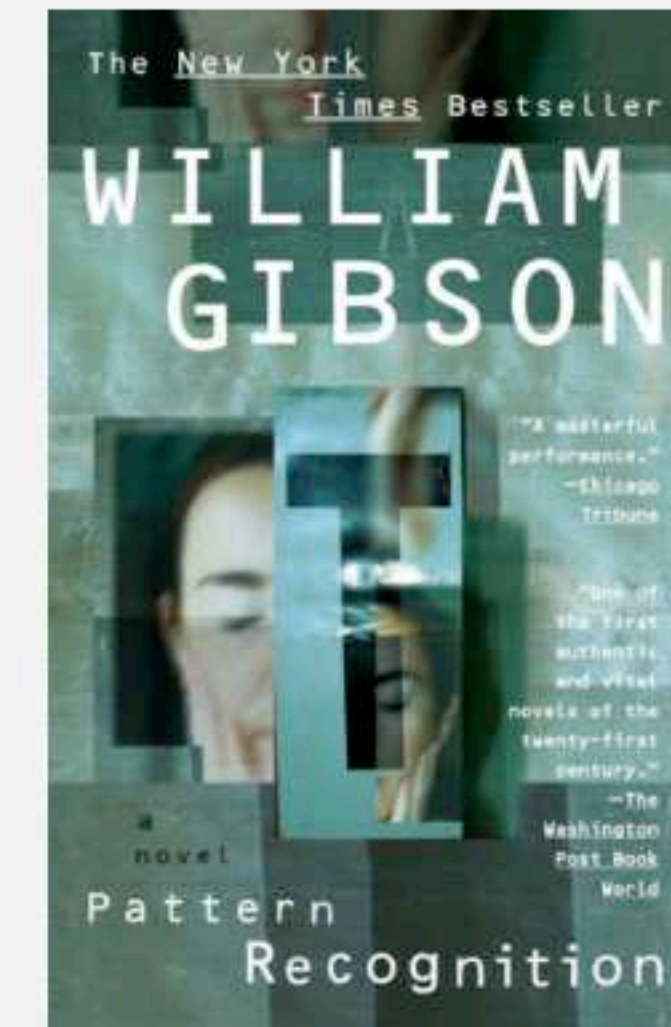
Gibson, William 🔍

"In a post-9/11 world, the present is as unpredictable as any future..."

Paid to predict the hottest trends, Cayce Pollard is in London to evaluate the redesign of a famous corporate logo when she's offered a different assignment: find the creator of the obscure, enigmatic video clips being uploaded to the Internet—footage that is generating massive...

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Anna's Archive Scraped WorldCat to Help Preserve 'All' Books in the World

October 3, 2023 by Ernesto Van der Sar

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Anna's Archive scraped WorldCat, the world's largest library catalog, in an effort to help preserve digital copies of every book in the world. The meta search engine is well aware of the legal risks but believes that these are well worth taking to preserve the written legacy of humanity. In addition, the archive's database has gained interest from AI developers and LLM teams too.

A few years ago, book piracy was considered a fringe activity that rarely made the news, but times have changed.

Last year, the U.S. Department of Justice [targeted](#) popular shadow library Z-Library, accusing it of mass copyright infringement. Two of the site's alleged operators were arrested and their prosecution is still [pending](#).

In recent months, shadow libraries have also been named in other lawsuits. Publishers sued Libgen over "[staggering](#)" levels of infringement, for example. At the same time, [several lawsuits](#) accused OpenAI of using Libgen and other unauthorized libraries to



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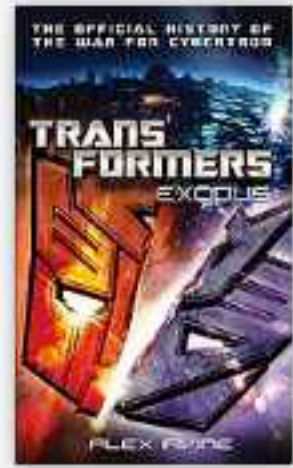
Thank you for bearing with me

Daniel Messer
Library Systems & Services









Transformers : exodus : the official history of the war for Cybertron

★★★★☆ 131 reviews

Author: Alexander Irvine

Summary: Reveals the origins of the conflict between Megatron and Optimus Prime, the reason for two allies fighting a corrupt regime to suddenly turn on each other, and the roles played by Starscream, Sentinel Prime, and Omega Supreme

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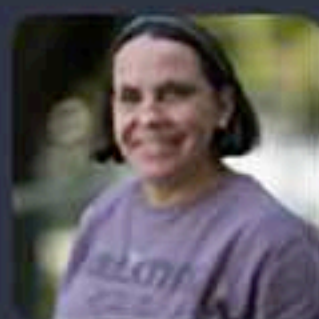
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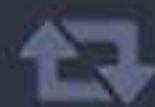


Yani Bellini Saibene

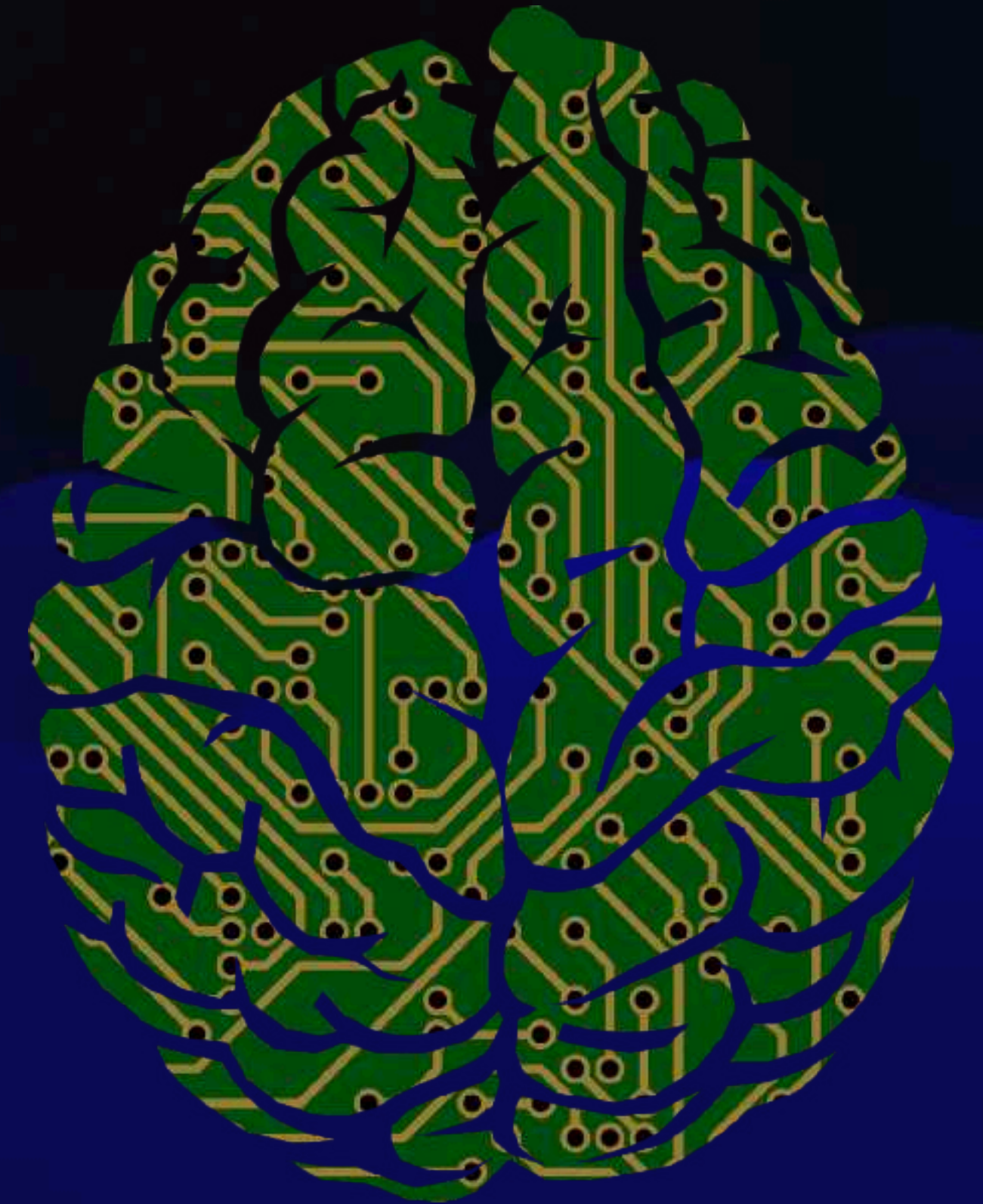
[@yabellini@fosstodon.org](mailto:yabellini@fosstodon.org)

Did you realize that we live in a reality where SciHub is illegal, and OpenAI is not?

[Jan 09, 2024, 14:34](#) ·  ·  3.2K ·  2.9K

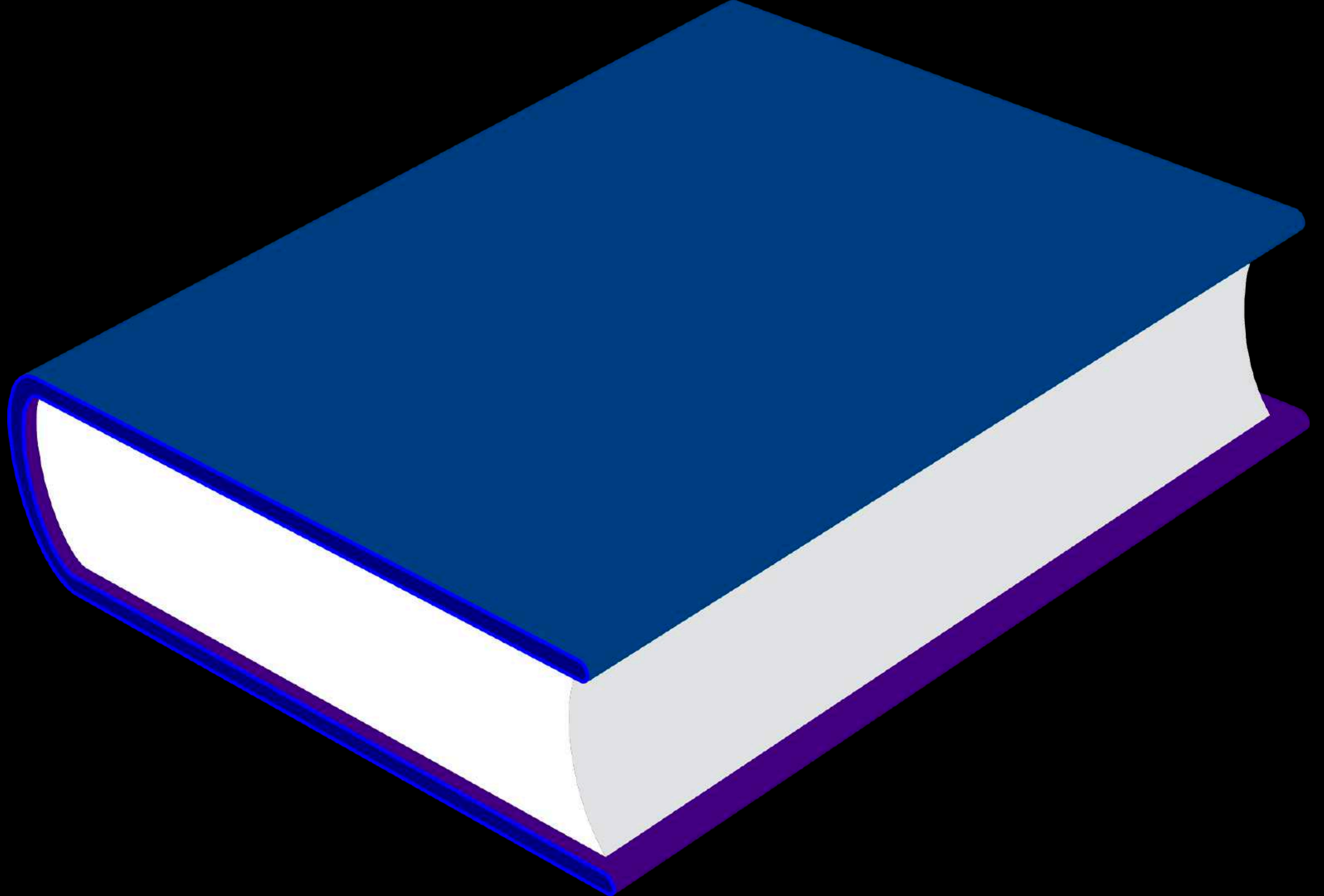


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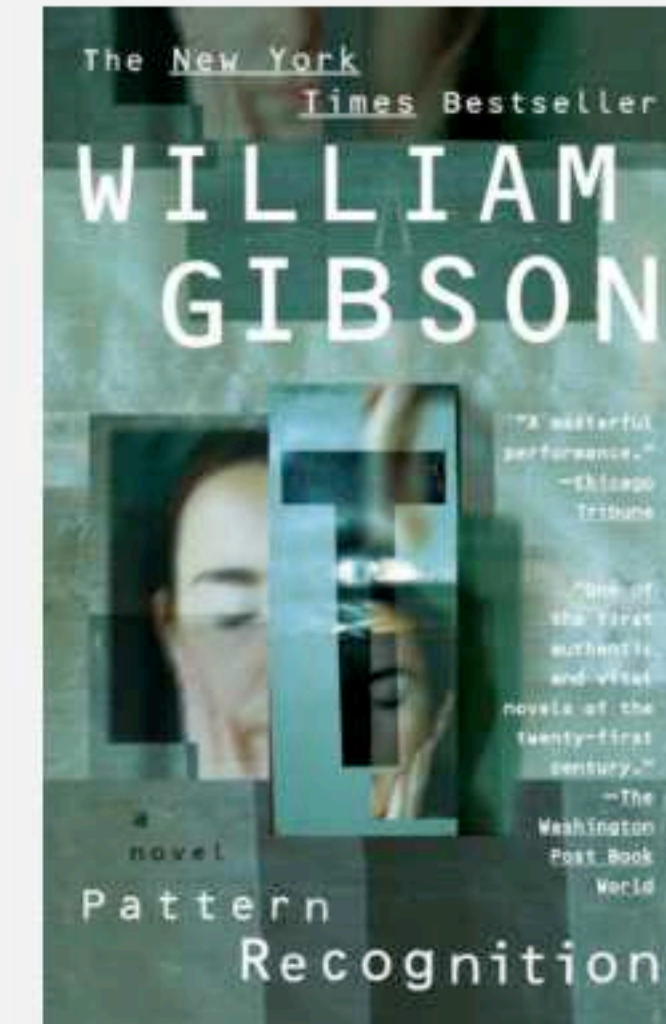
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**No one has to lose
Everybody can win**

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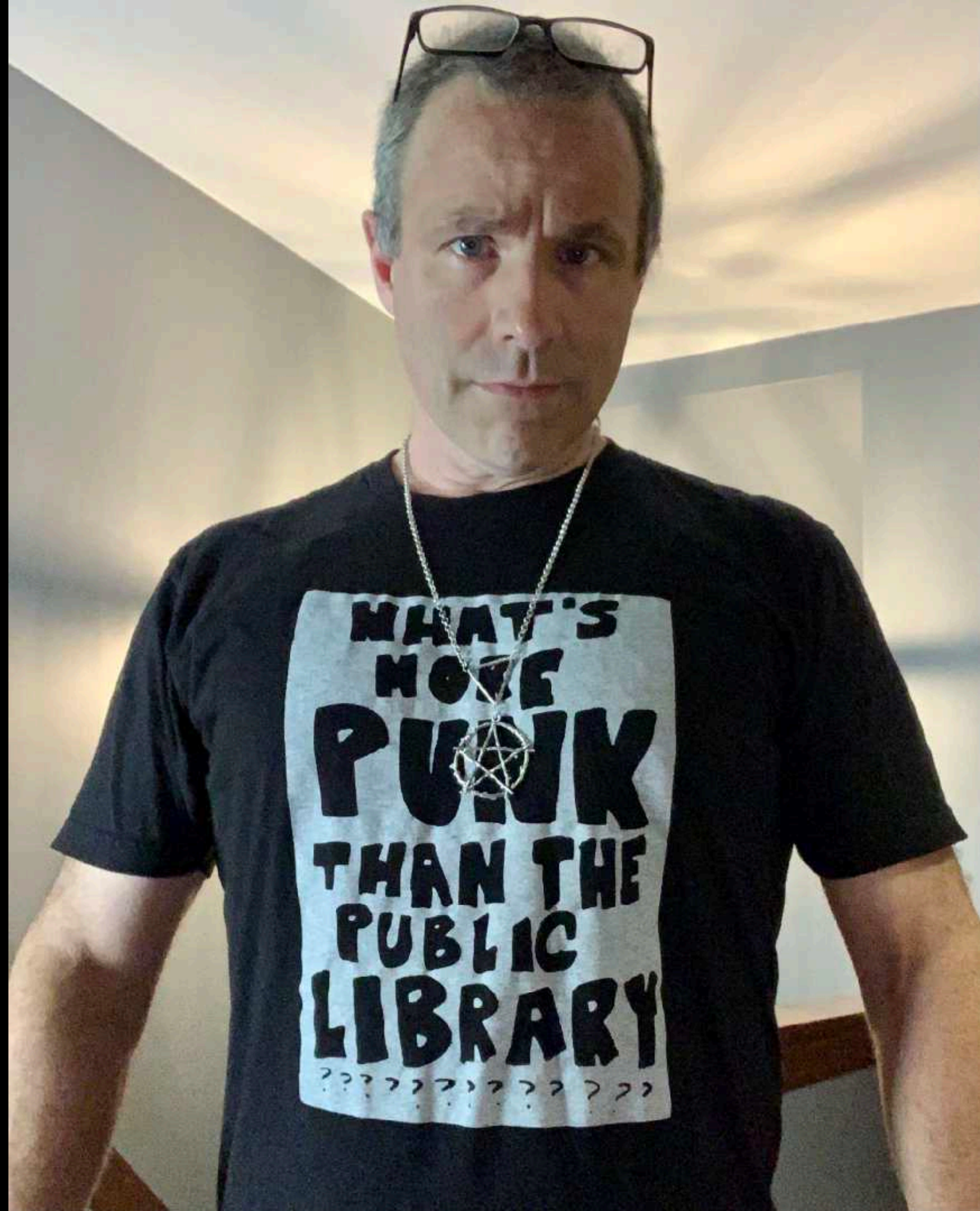
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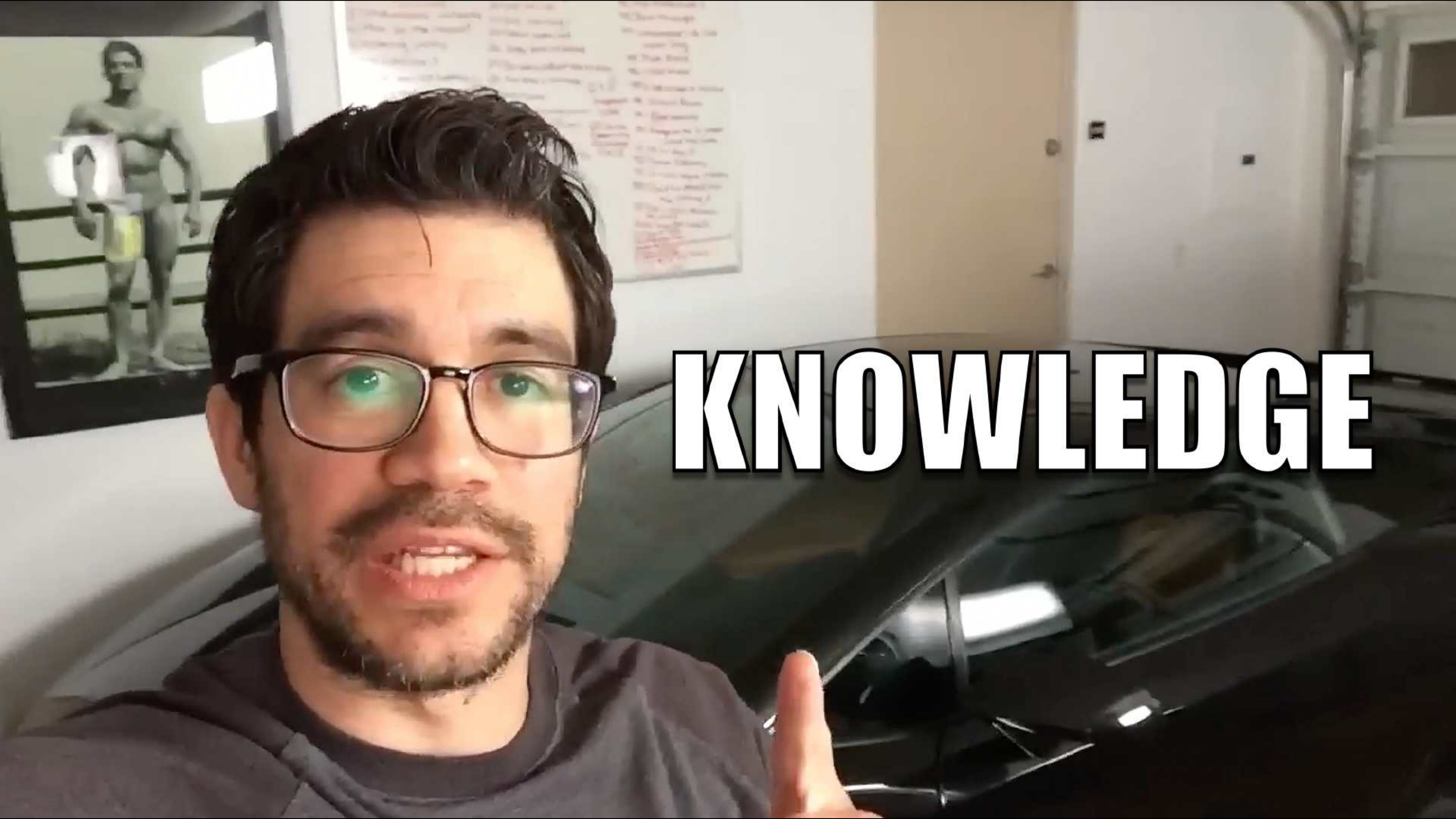
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IT JUST GOES TO BED AT A MORE REASONABLE HOUR



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