

Blee-LCNT:

An Emacs-Centered Content Production and Self-Publication Framework

Emacs Conference 2025

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<http://www.by-star.net/PLPC/180068>

December 6, 2025

Video File: ./video/mbIntro.mp4

Scope:

A Complete Multi-Media Content Processing Framework

Content Authorship, Generation, Publication and Distribution

Content Types

- Videos
- Presentations
- Articles/Papers
- Books, eBooks
- Web Pages
- Bus Cards
- Name Tags
- Posters, Flyers
- etc.

Content Production

- Authorship
- Generation
- Disposition
- Categorization
- Metadata

Content Exposition

- Autonomous Publication
- Federated Re-Publication
- Distribution
- Mailings
- Engagement
- Archival

Prior Art and Similar Art

| Title | Author | Year | URL |
|--|---------------------|------|--|
| LaTeX export in org-mode: the overhaul | P. Gutiérrez | 2025 | emacsconf.org/2025/talks/latex |
| Emacs Writing Studio | Peter Prevos | 2024 | emacsconf.org/2024/talks/writing |
| Authoring & presenting university courses with Emacs and a full libre software stack | James Howell | 2023 | emacsconf.org/2023/talks/uni |
| Teaching computer and data science with literate programming tools | Marcus Birkenkrahe | 2023 | emacsconf.org/2023/talks/teaching |
| How we use Org Mode and TRAMP to organize and run a multi-track conference | Sacha Chua | 2023 | emacsconf.org/2023/talks/emacsconf Reveal.js Example |
| emacs-gc-stats: Does garbage collection actually slow down Emacs? | Ihor Radchenko | 2023 | emacsconf.org/2023/talks/gc Beamer Warsaw LaTeX Example |
| Moving from Jekyll to OrgMode, an experience report | Adolfo Villafiorita | 2020 | emacsconf.org/2020/talks/15 |

LaTeX-Beamer + Reveal.js With Blee and BISOS

About LaTeX Beamer:

Beamer is a document class for the LaTeX typesetting system that is used to create presentations. It is in very common use within academic communities.

About Reveal.js:

reveal.js is an HTML presentation framework that allows you to create interactive and visually appealing slide decks.

Blee-LCNT Presentations as LaTeX-Beamer + Reveal.js:

A single LaTeX+org-mode source is used to generate LaTeX images and HTML which are injected into Reveal.js and then augmented by voice-overs and videos.

All of this comes integrated as a BISOS-Capability-Bundle (BCB)

Ready for use (when you buy into ByStar/BISOS/Blee)

Common Prior Art Key Concepts

- Linux and Emacs
- Org-Mode + LaTeX
- Org-Babel & Literate
- Reveal.js By Itself
- LaTeX Beamer By Itself
- DIY with more Packages
- All-In-One Result Videos

Key Novel Concepts

- Linux and Emacs
- LaTeX + Org-Mode
- COMEEGA & Surrounded
- LaTeX Beamer + Reveal.js
- A BISOS Capability Bundle
- Modular Results

LaTeX Beamer pdf result is dissected into frame images and inserted in Reveal.js.

LaTeX Beamer frames can also be translated into html with HeVeA and inserted in Reveal.js. Voice-overs for Beamer frames are correlated to frame names and applied to image or html frames in Reveal.js.

Part of a Bigger Picture – Part of a Series

ByStar, BISOS, Blee

- EmacsConf 2024 – About Blee: enveloping our own autonomy directed digital ecosystem with Emacs –
<https://emacsconf.org/2024/talks/blee>
 - introduced Blee, the ByStar Libre-Halaal Emacs Environment
 - introduced BISOS, the ByStar Internet Services Operating System
 - introduced ByStar, the Libre-Halaal ByStar Digital Ecosystem
- EmacsConf 2022 – Revisiting the anatomy of Emacs mail user agents –
<https://emacsconf.org/2022/talks/mail>
 - introduced a context for the ByStar Inter-Personal Communications Capability
- EmacsConf 2021 – Perso-Arabic Input Methods And Making More Emacs Apps BIDI Aware –
<https://emacsconf.org/2021/talks/perso-arabic>
 - introduced a needed component for multi-lingual content authorship and generation

Introducing The Nature of Polyexistentials Book

- 7 The "Nature of Polyexistentials" Book and The Full ByStar Story
- 8 A Layered Overview of The Polyexistentials Book
- 9 Nature of Polyexistentials Book – Vol I and II Key Concepts
- 10 Obtaining the Nature of Polyexistentials Book

Nature of Polyexistentials

Basis for Abolishment of
the Western Intellectual Property Rights Regime

And Introduction of
the Libre-Halaal ByStar Digital Ecosystem

<https://github.com/bxplpc/120033>



V: Formulation of Societal Policies

- 22- Eastern Societal Strategies
- 21- Private Sector: By* Open Business Plan
- 20- Theoretical Western Societal Cures
- 19- Societal Strategies

IV: Libre-Halaal ByStar Digital Ecosystem

- 18- Engineering Adoption of BISOS and ByStar
- 17- Technology of ByStar: BISOS
- 16- Libre-Halaal ByStar Digital Ecosystem
- 15- Theory of Libre-Halaal Digital Ecosystem

III: Contours of Cures

- 14- Ethical and Religious Cures
- 13- Global Polyexistential Capitalism
- 12- Digital Non-Proprietary Movements
- 11- Introducing Halaal and Haraam Into Globish
- 10- Dynamics of Cures

II: The Mistake: Myths of the Western IPR Regime

- 9- Americanism: Root of the IPR Mistake
- 8- Ramifications of the Western IPR Mistake
- 7- Western Slavery and the Western IPR Regime
- 6- Debunking the Myth of Western IPR Regime
- 5- Dynamics of the Western IPR Mistake

I: Polyexistence

- 4- Proper Governance of Polyexistentials
- 3- Digital polyexistentials
- 2- Nature of polyexistentials

VOLUME I

VOLUME II

ByStar Software and Internet Application Services

Nature of Polyexistentials:

Basis for Abolishment of
the Western Intellectual Property Rights Regime

And Introduction of
the Libre-Halaal ByStar Digital Ecosystem

ماهیت چند وجودی ها:

دال بر لغو آنچه که غربیها تابعیده اند مالکیت فکری و معنوی

Mohsen BANAN

PLPC-120074.p2bs0

First International Edition

Available on-line at:
<https://github.com/bxplpc/120074>



Nature of Polyexistentials Book – Key Concepts

Volumes I and II

Volume I:

Rejection of the IPR Regime

- Polyexistentials
- Western IPR and Americanism
- Abolishment of IPR Regime
- Libre-Halaal Governance of Polyexistentials
- Inside of IPR: Unique Software Public License: Affero GPL
- Outside of IPR: Eastern Strategies

Volume II:

Libre-Halaal ByStar Digital Ecosystem

- Libre-Halaal ByStar DE
 - Service Portability, Service Possession Assertion, Autonomy, Privacy
- BISOS - By* Internet Services OS
 - PyCS, By* Portable Objects (BPOs), PALS
- Blee - By* Libre Emacs Env
 - COMEEGA, Blee Panels, PyCS Player

Reveal Video Insertion Of `src="./video/derived-obtainingPolyBook.mp4"`

Obtaining the Nature of Polyexistentials Book

Online:

- At Github: (Pdf, EPUB, Html)

US Edition: <https://github.com/bxplpc/120033> - pdf-A4 - pdf-US

International: <https://github.com/bxplpc/120074> - pdf-A4 - pdf-US

- DOI at Zenodo: (Pdf)

US Edition: <zenodo.org/records/11100505> - pdf-A4

International: <zenodo.org/records/11100543> - pdf-8.5x11

In Print:

- At Amazon, Walmart, etc: (ISBNs 978-1-960957-01-6 978-1-960957-11-5)

US Edition: <https://www.amazon.com/dp/1960957015>

International Edition: <https://www.amazon.com/dp/1960957112>

- In Iran at Jangal Publishers (International) – ISBN 978-622-238-588-0:

jangal.com/fa/product/252689/nature-of-polyexistentials

Content Processing – A ByStar/BISOS/Blee Capability Bundle (BCB)

- ⑪ ByStar/BISOS/Blee Capability: Content Production and Publication
- ⑫ ByStar Containment Hierarchy and ByStar Capability Bundles
- ⑬ Aggregate Conviviality of ByStar Capabilities
- ⑭ Parts List: Integrated Components

Content Processing as a ByStar/BISOS/Blee Capability:

The Libre-Halaal ByStar Digital Ecosystem:

ByStar is about redecentralization of internet application services and autonomous & private usage of these services in a virtual-edge oriented model.

BISOS (ByStar Internet Services OS):

A layer on top of Debian which provides for creation of self-hosted edge environments and software-service continuums.

Blee (ByStar Libre-Halaal Emacs Enviorment):

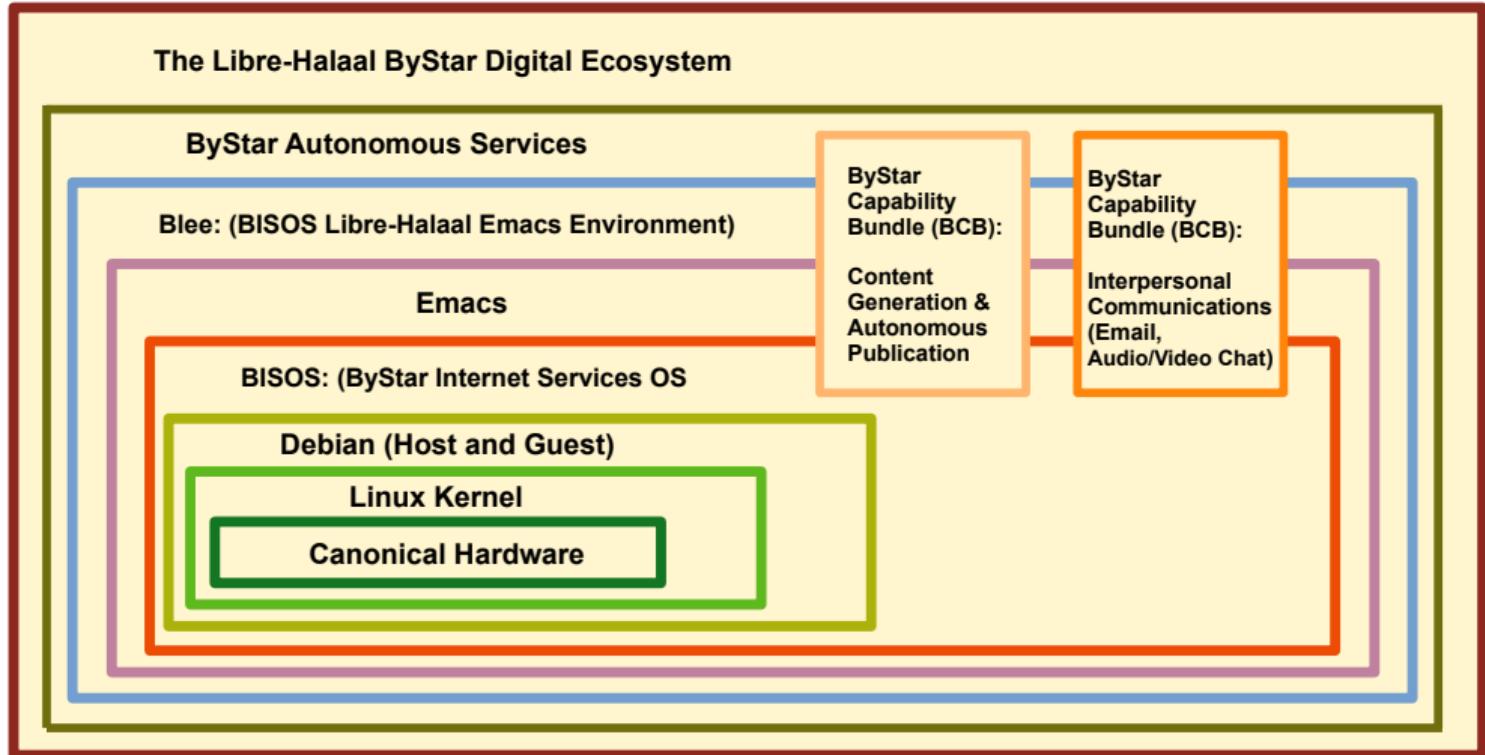
A layer on top of Emacs which creates a BISOS integrated usage environment.

ByStar/BISOS/Blee Capability Bundle (BCB):

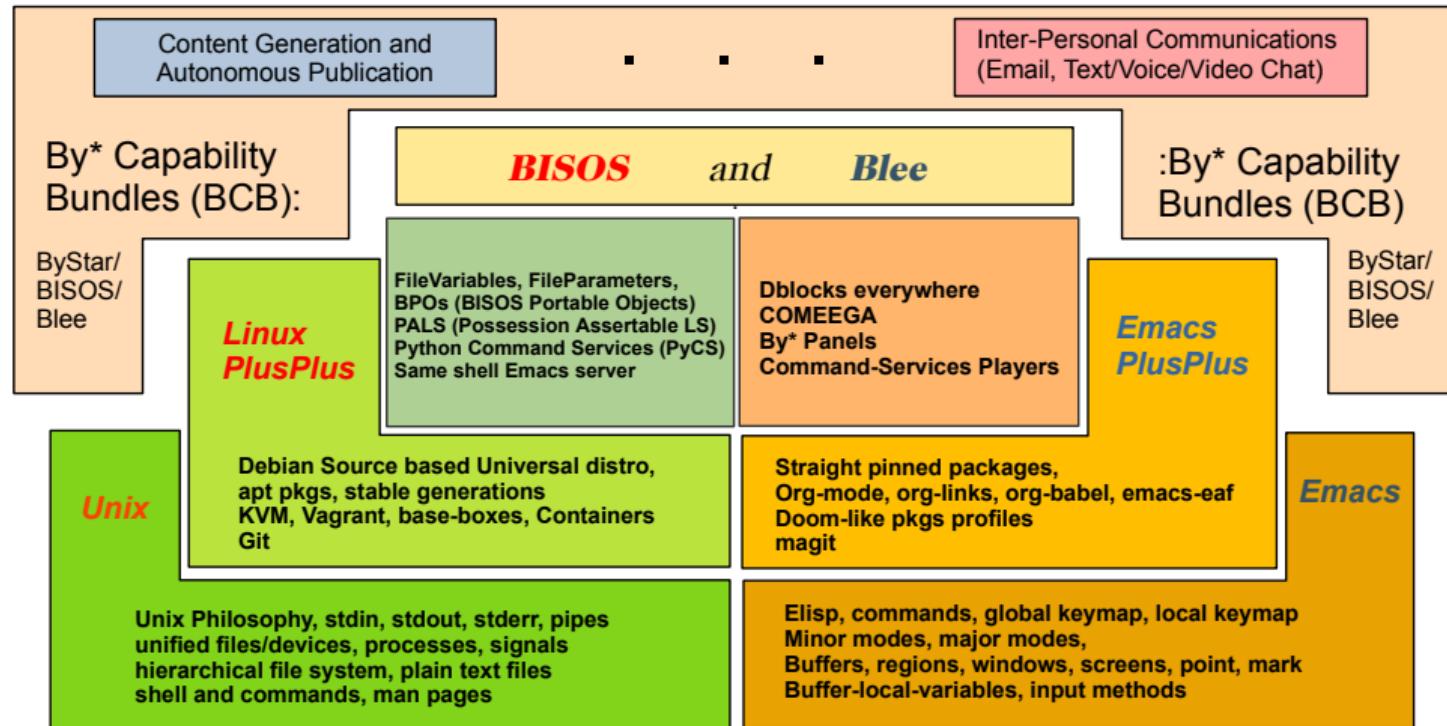
Content Generation and Publication Framework

ByStar Containment Hierarchy and ByStar Capability Bundles

The Libre-Halaal ByStar Digital Ecosystem Containment Hierarchy



Aggregated Conviviality Of ByStar Capabilities



Parts List: Integrated Components

TeX: XeLaTeX, HaVeA, Beamer, bidi, `bxcnt/whenenv`, `bxcnt/bxtex`

elisp: AucTeX, RefTeX, yasnippet, `blee-dblock`, `blee.COMEEGA`

Java-Script: node-modules, reveal.js, audio-reveal, video.js

Python-Integration: `bisos.lcnt`,

Bash-Integration: `bisos/lcnt/bin`, `seedLcntProc.sh`, `lcntProc.sh`

Images: LibreOffice Draw, Gimp

Audio: Audacity, `lcaAudioManage.sh`

Video: obs, ffmpeg, pdfpc (annotations)

Internationalization: perso-arabic input methods, HaVeA-Bidi

Teleprompter: QPrompt, pdfpc (notes)

Captions: subed, OpenAI Whisper, aeneas

Documentation: Blee Panels

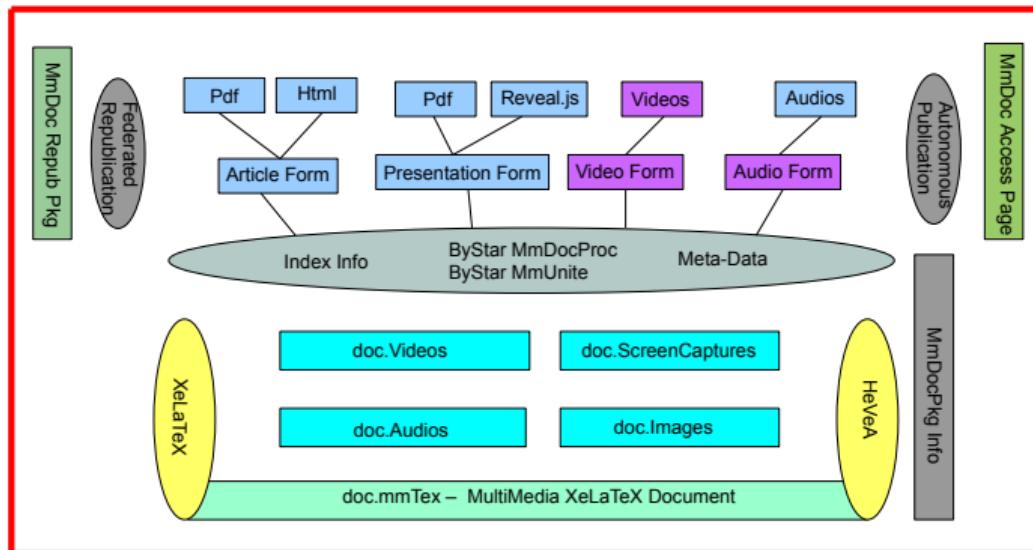
Resulting Contents – Output Forms and Formats

15 Content Processing and Output Forms and Formats

16 Resulting Output Formats

17 Output Forms Walkthrough

Content Processing and Output Forms and Formats



Resulting Output Formats

Primary Output Forms and Formats:

- Video Form
 - Screen Capture of Reveal.js
- Presentation Form
 - Reveal.js – HeVeA html output – Interactive viewing
 - Pdf – Beamer-LaTeX output – pdf viewing and printing
- Article-Presentation Form
 - Html – HeVeA html article output – Includes: images, notes, audio and video
 - Pdf – Article-LaTeX output – Include images and notes

Video File: ./video/outputWalkthrough.mp4

A Unified Single Input – A Sequence of Frames

- 18 Obtaining Sources Of This Document – Pointers To Git Repos
- 19 Overview Of ByStar Multi-Media Document Authorship and Generation
- 20 Unified Source – Combinations Of Abstract Forms And Concrete Outputs
- 21 Frame Control Types
- 22 Frame Body Types

Reveal Image Insertion Of

src="../disposition.gened/obtainingSources/slide-1.png"

Obtaining Sources Of This Document – Pointers To Git Repos

<https://github.com/bxplpc/180068>

<https://github.com/bxGenesis/start>

<https://github.com/bxlcnt>

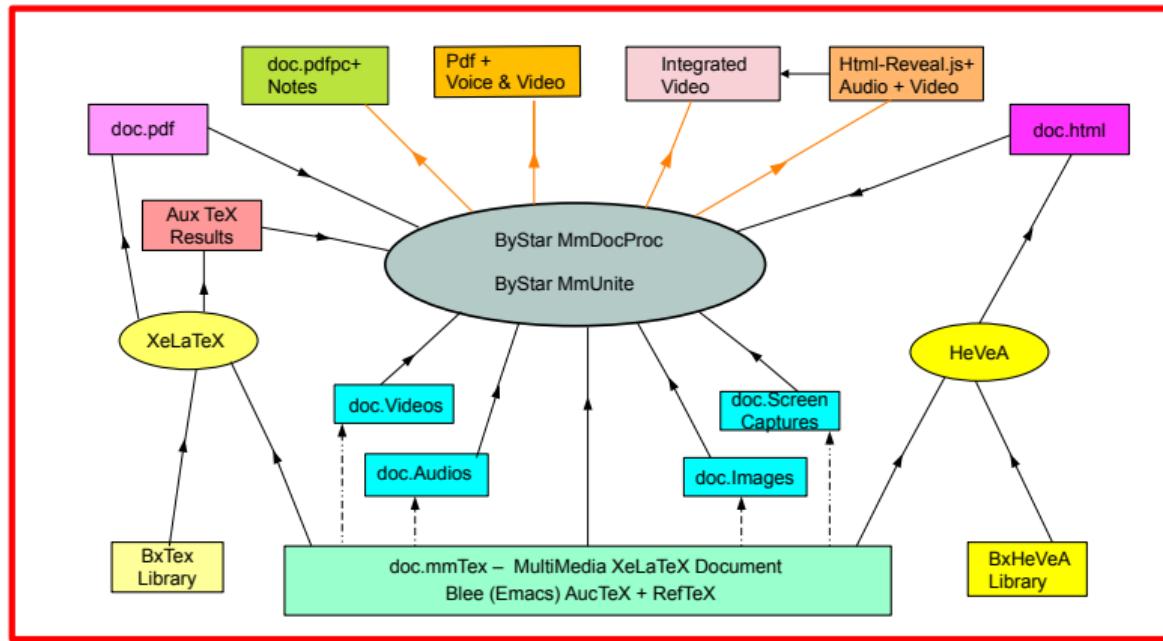
<https://github.com/bx-blee>

<https://github.com/bisos-pip>

<https://github.com/mohsenBanan>

<http://www.by-star.net>

By* Multi-Media Document Authorship and Generation



Unified Source Controlling All Results

Combinations Of Abstract Formats And Concrete Outputs Paginated: Text+Images

- Abstract Multilingualization Selections

Lr+Bidi: Left-To-Right – Globish/English+bidi – article&,presentation

RI+Bidi: Right-To-Left – Farsi+bidi – article&presentation

- Abstract Form Selections (Left-To-Right (EnFa))

presentation: presentationEnfa.ttytex + bodyPresentationEnFa.tex

presentation + article: bodyPresArtEnFa.ttytex + bodyArticleEnFa.ttytex

- Single Source Abstract Form And Concrete Output Formats Control

Abstract Form Controls: article-mode presentation-mode

Concrete Formats Only: latex-only html-only raw-html

Frame Control Types

| Dblock | LaTeX | Reveal.js |
|--------------------------|--|---|
| TitlePage | In presentationEnFa.ttytex | |
| frame:begin/blank | no title (text) | no title HaVeA -> html |
| frame:begin/plain | title+subTitle | HaVeA -> html |
| frame:begin/regular | title+subTitle+Guide | HaVeA -> html |
| frame/derivedImage | frame head | brings beamer image |
| frame/derivedVideo | frame head | brings video of beamer image |
| frame/insertDerivedImage | text saying: image derivedLabel label: here, derivedLabel: inserted | rawhtml: image derivedLabel derivedLabel HaVeA -> html |
| frame/insertDerivedVideo | text saying: video derivedLabel label: here, derivedLabel: inserted | rawhtml: video derivedLabel derivedLabel HaVeA -> html |

Frame Body Types

| Dblock | LaTeX | HTML |
|------------------|-------------------------|-----------------------------|
| body:odg-artpres | BeamerSize - ArtSize | RevealSize - ArtSize |
| body:mm/video | Textual Video File Path | Sized for Reveal or Article |
| None | Condition Based LaTeX | Condition Based Html |

Generating and Processing the Content

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- 27 COMEEGA

Bootstrapping:

From Fresh Debian to Raw-BISOS and Raw-Blee

Bootstrapping BISOS and Blee

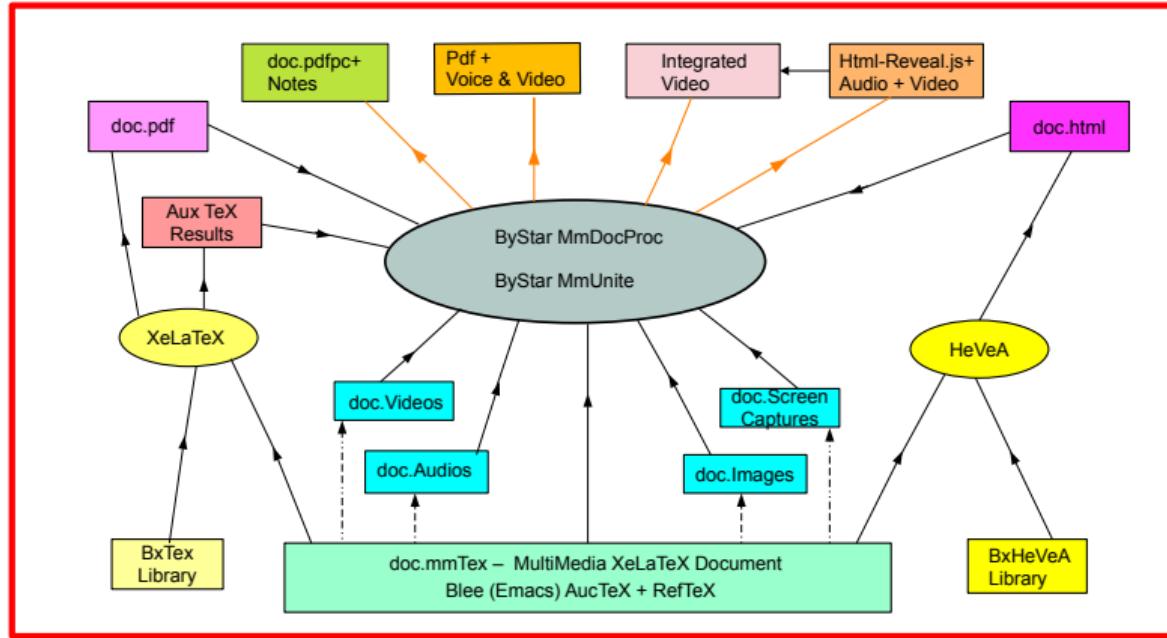
<https://github.com/bxGenesis/start>



Work In Progress! — Pardon Our Mess

Not Ready For General Release/Use. Don't Expect Stability/Support.

Context for Unified Source Walkthrough



Video File: ./video/derived-unifiedSourceScreenCapture.mp4
Video of the Unified Source Walkthrough

Blee Org Dynamic Blocks — Everywhere

From <https://orgmode.org/manual/Dynamic-Blocks.html>:

A.6 Dynamic Blocks

Org supports dynamic blocks in Org documents. They are ... like any other code block, but the contents are updated automatically by a user function.

The concept of updating a block of text in any mode is very powerful. This should not be limited to just Org documents.

Blee supports Dynamic Blocks in emacs-lisp-mode, latex-mode, sh-script-mode, python-mode, etc.

Dynamic Blocks are more useful when they are considered universal to all of emacs modes. In Emacs they should be. In Blee, they are. In raw-BISOS, see:

<file:/bisos/blee/env3/dblocks>,

<https://github.com/bx-blee/poly-dblock> –

<https://github.com/bx-blee/blee-dblocks>

COMEEGA

Collaborative Org-Mode Enhanced Emacs Generalized Authorship

- Consider *Surrounded Programming* as **inverse of** *Literate Programming*.
- Consider *COMEEGA* as **inverse of** org-mode based *org-babel*.
- In *org-babel* (org-mode based literate programming), we include various programming fragments inside of an org-file. In bable, org recognizes authorship-major-modes and supports them.
- In *COMEEGA*, we include various org-mode fragments inside of a programming language's major mode as comments or as doc-strings in org format. The combination is then supported through polymode.

See: <https://github.com/bx-blee/comeega>

Internationalization — A Non-Americanist Perspective

- 28 Perso-Arabic Input Methods, bidi and shaping — Fully Integrated
- 29 Ayatollah Khomeini: The so-called Western Intellectual Property is Utterly Invalid
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- 31 Nature of Polyexistentials Citations: Ethical and Religious Cures
- 32 Nature of Polyexistentials Citations: Non Americanist Perspectives

Perso-Arabic Input Methods, bidi, shaping - Fully Integrated

In Emacs, In XeLaTeX, In HaVeA and In Blee

Emacs:

Very multilingual, good bidi support

EmacsConf 2021 – Perso-Arabic Input Methods And Making
More Emacs Apps BIDI Aware –

<https://emacsconf.org/2021/talks/perso-arabic>

XeLaTeX:

Multilingual, good bidi support

usepackagebystarpersian – Defines: newfontfamilypersian,
newcommandfarsi, newenvironmentfaPar,fa

HaVeA

Needs usepackagebystarpersian

Reveal.js

Multilingual with bidi support

The so-called Western Intellectual Property is Utterly Invalid

آنچه که معروف به حق طبع نزد افراد است حق شرعی به شمار نمی‌آید و زایل نمودن سلطه مردم بر اموالشان بدون اینکه شرط و عقدی در بین باشد جایز نیست و مجرد نوشتن جمله «حق چاپ و تقلید محفوظ است» حقی به وجود نمی‌آورد و التزام دیگران را به دنبال ندارد.

That which has become famous among people as the right of authorship (copyright) is not a theological or an ethical right. And to take away the control of people on their belongings without explicit condition and contract is not permitted. And just by writing a sentence saying "Copyright: Print and Copying Rights are Reserved" creates no right and does not require conformance of others.

Ayatollah Motahari: Intellectual Property Is Public Property

اختراع محسول مستقیم نبوغ فکری فرد نیست تا او مالک اثر یا اختراع خویش باشد بلکه طبیعت یا اجتماع به دلیل شرایط و زمینه‌های خاص در پیدایش چنین اختراعی مؤثر بوده‌اند. از این‌رو، اموال فکری مانند اختراع و تألیف سرمایه‌ای عمومی و مملوکی اشتراکی است نه ملک خصوصی.

Invention is not solely the direct product of an individual's intellectual genius, for nature and society, due to specific conditions and circumstances, have played a significant role in the emergence of such inventions. Therefore, intellectual properties such as inventions and creations are considered a common and collective asset rather than private ownership.

Nature of Polyexistentials Citations: Ethical and Religious Cures

Chapter 14: Ethical and Religious Cures

Section 14.2.1.3.1:

Imam Khomeini's Decree Invalidates So-Called Intellectual Property Rights

Section 14.2.1.3.2:

Ayatollah Motahari Views Intellectual Property as Public Property

Nature of Polyexistentials Citations: Non Americanist Perspectives

Chapter 6: Debunking the Myth of Western IPR Regim

Section 6.3:

Promoting Creativity and Innovation: IP is a Failed Experiment

Chapter 12: Digital Non-Proprietary Movements

Section 12.4:

A Cynical Perspective on Freedom Orientation of Americans

Chapter 9: Americanism: Root of the IPR Mistake

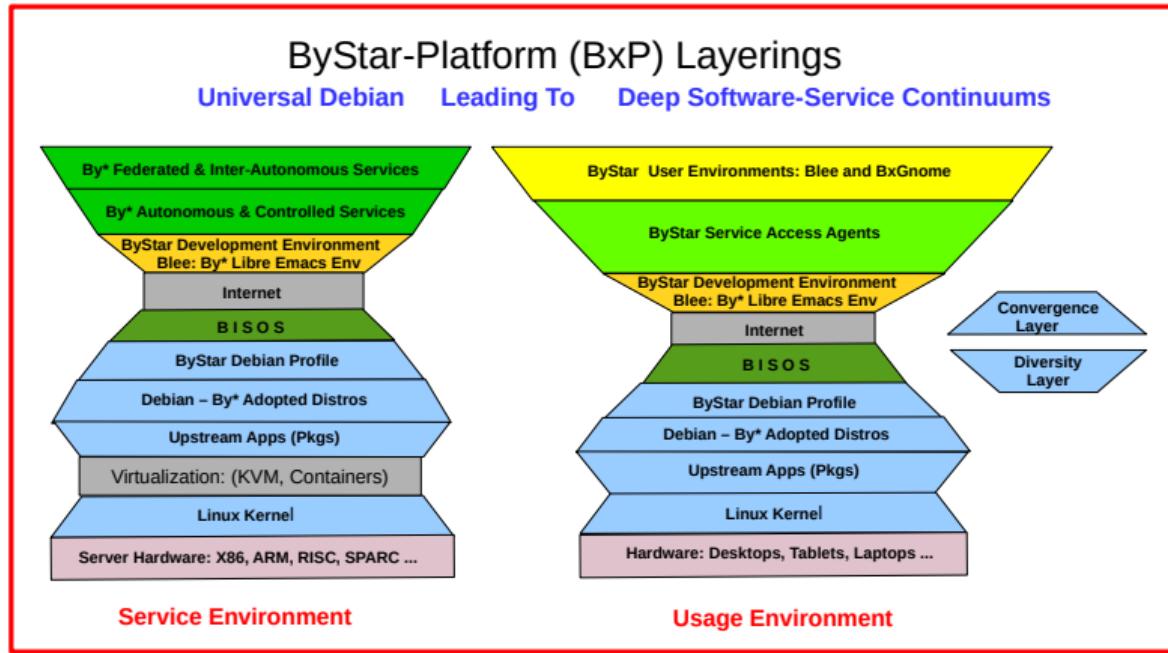
Autonomous Self-Publication and Federated Re-Publications

33 Just The Universal Debian Everywhere

34 Nature of Polyexistentials Citations: Convergence of Debian and Ubuntu

35 From Raw-BISOS To Your Own Site and Your Own PALS

Just The Universal Debian Everywhere



Nature of Polyexistentials Citations: Convergence of Debian and Ubuntu

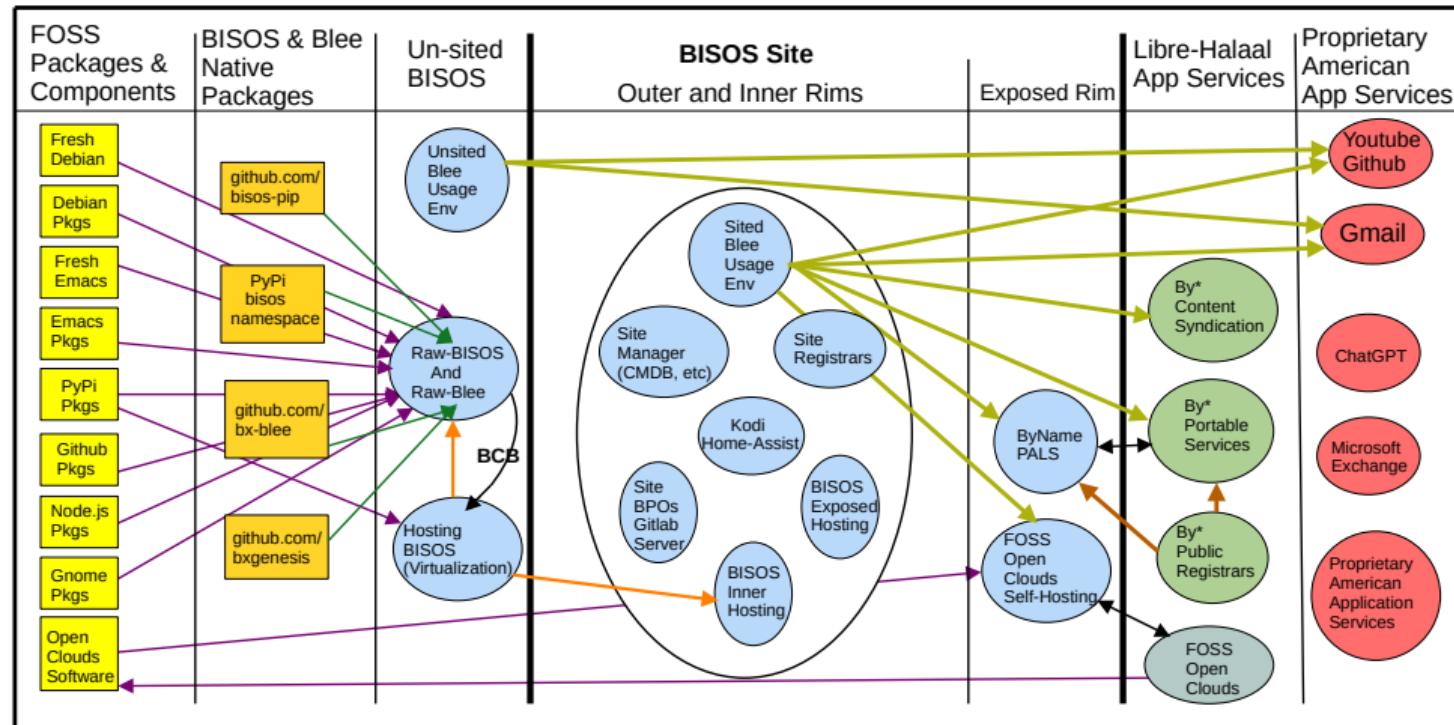
Chapter 12: Digital Non-Proprietary Movements

Section 12.1.5:

Business and Economics of FOSS

[Includes my 2021 email to Mark Shuttleworth towards persuading him to accept Debian as base and to build on Debian — and not to compete with Debian.]

Ingredients of BISOS Platforms and Their Progression



Blee-Panels — BISOS and Blee's Self-Documentation Facilities

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Content Processing Blee Panels — Screen Captures

Content Processing Blee Panels

Video of tour of Blee-Lcnt Panels comes here.

Moving Forward

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Your Participation

General Audience - Emacs Users

- Read “Nature of Polyexistentials”
- Evaluate Invalidity of IPR Regime
- Evaluate Merits of Libre-Halaal Label vs FOSS
- Always Apply Afferro GPL to Your Own Software
- Eastern Societies: Engage Policy Makers for Abolishment of IPR
- Appraise the ByStar Blueprint

Emacs Developers

- Expand Scope of Org Dynamic Blocks to the Entirety of Emacs
- Create a tree-sitter Polymode with good org-mode support
- Make Something Like Poly-COMEEGA Emacs Native
- Make Something Like Blee-Panels Org or Emacs Native

Your Participation
Emacs Conf is Great
Thanks

Thanks

With Big Thanks To All EmacsConf Organizers

And Sacha In Particular

Video File: ./video/endVideo.mp4