Improving knowledge availability for Tibetan Buddhist entities through Wikidata

A Work With Buddhist Digital Resource Center

Rui (Forest) Jiang
Google Software Engineer

Élie Roux
Tech lead of BDRC

Paritosh Singh
CS Student NIT Kurukshetra

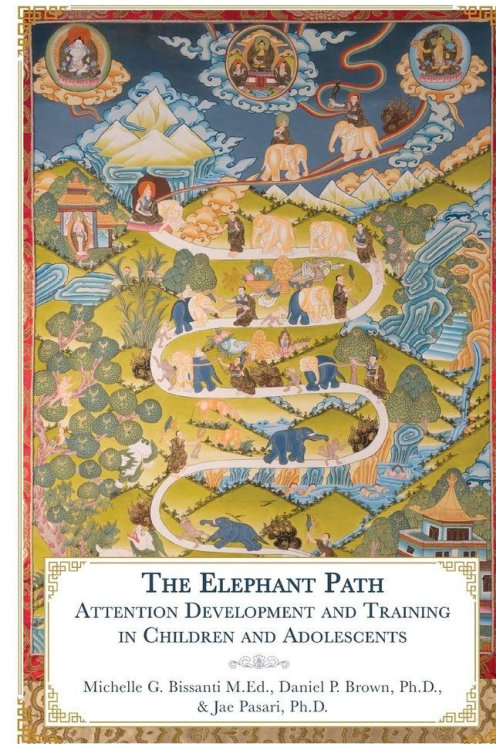**Elan Hourticolon-Retzler**
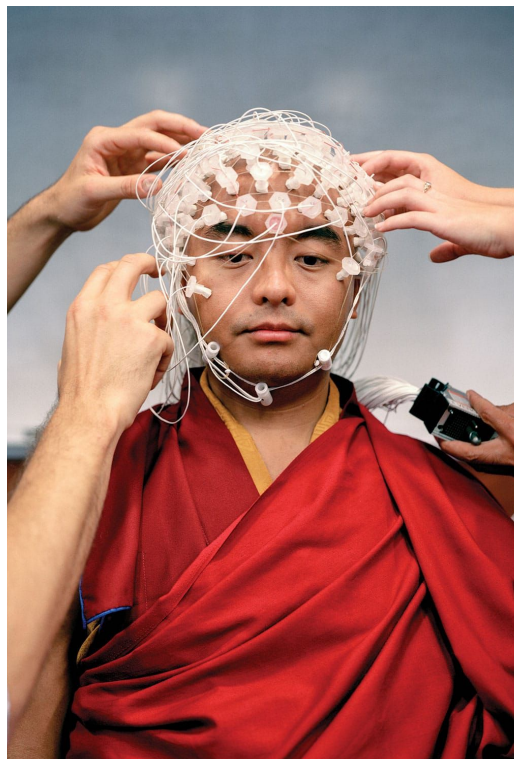Google Software Engineer
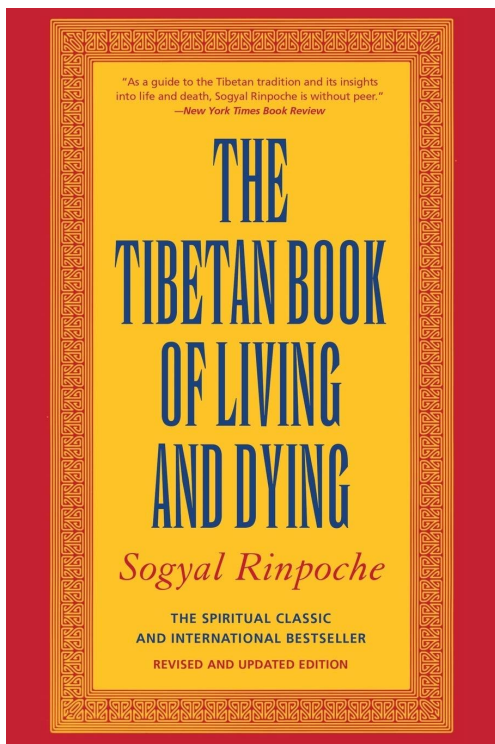
WIKI DATA CON
2021 - a sustainable
future for Wikidata

Motivation

Tibetan Traditions - A Treasure For the World

- Why start from Tibetan?
    - Rich literatures, carries knowledge from ancient India
    - Living academic and spiritual traditions
    - Source of inspirations for modern world

Tibetan Tradition as Source of Inspirations

THE TIBETAN BOOK OF LIVING AND DYING

Sogyal Rinpoche

"As a guide to the Tibetan tradition and its insights into life and death, Sogyal Rinpoche is without peer."
—*New York Times Book Review*

THE SPIRITUAL CLASSIC AND INTERNATIONAL BESTSELLER
REVISED AND UPDATED EDITION

THE ELEPHANT PATH
ATTENTION DEVELOPMENT AND TRAINING IN CHILDREN AND ADOLESCENTS

Michelle G. Bissanti M.Ed., Daniel P. Brown, Ph.D., & Jae Pasari, Ph.D.

Richness in Tibetan Traditions

Sciences

Philosophy & Spirituality

Art (sacred & worldly)

WIKI DATA CON
2021 - a sustainable future for Wikidata

A Well-Kept Tradition

Woodblocks at Dege Printery
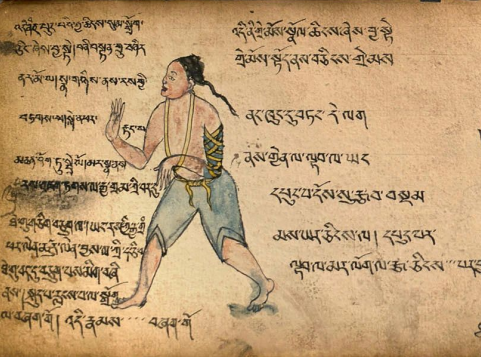

Influences on Western Thoughts

Tibetan Traditions - A Treasure For the World

- Why start from Tibetan?

  - Rich literatures, carries knowledge from ancient India

  - Living academic and spiritual traditions

  - Source of inspirations for modern world

- Tibetan language spoken by 6M, yet lack of digital support (Wiki [no admins](), Search engine, NLP, text handling in Softwares, etc)

More effort is needed.

WIKI DATA CON
2021 - a sustainable
future for Wikidata

Knowledge Representation

When you want to find more about an entity (person, place, text)...

Mipham Rinpoche (1846-1912)

Tibetan native: འཇམ་མགོན་འཇུ་མི་ཕམ་རྣམ་རྒྱལ་རྒྱ་མཚོ་
Wylie Transliteration: 'jam mgon 'ju mi pham rnam rgyal rgya mtsho
THL Transcription: Ju Mipam Namgyel Gyamtso
Jamgön Ju Mipham Gyatso, or Mipham Jamyang Namgyal Gyamtso
English known as: Mipham Rinpoche
Chinese known as: 米龐仁波切（米庞仁波切）

Ju Mipam Namgyel Gyamtso   ✕   🎤   🔍

All   News   Images   Videos   Shopping   ⋮ More   Tools

About 3,460 results (0.68 seconds)

More images

Jamgön Ju Mipham Gyatso

Philosopher

Overview

Books

⋯

https://en.wikipedia.org › wiki › Jamgön_Ju_Mipham_...   ⋮

Jamgön Ju Mipham Gyatso - Wikipedia

Jamgön **Ju Mipham Gyatso**, or Mipham Jamyang **Namgyal Gyamtso** (1846–1912) was a very influential philosopher and polymath of the Nyingma school of Tibetan ...

https://treasuryoflives.org › biographies › view › Mipa...   ⋮

Mipam Gyatso - The Treasury of Lives

Ju Mipam Gyatso ('**ju** mi pham rgya mtsho) was born in 1846 in the Derge (sde dge) region. His father, Gonpo Dargye (mgon po dar rgyas), was a descendent of ...

https://www.rigpawiki.org › ...   ⋮

Mipham Rinpoche - Rigpa Wiki

Mar 14, 2021 ... **Ju Mipham Rinpoche** (Tib... **ju** mi pham) or **Jamgön Mipham Gyatso** (Tib...

About

Jamgön Ju Mipham Gyatso, or Mipham Jamyang Namgyal Gyamtso was a very influential philosopher and polymath of the Nyingma school of Tibetan Buddhism. He wrote over 32 volumes on topics such as painting, poetics, sculpture, alchemy, medicine, logic, philosophy and tantra. Wikipedia

Born: 1846, Kham

Died: 1912, Dzogchen Monastery, China

School: Nyingma

Parents: Gönpo Dargyé, Sing Chung

Feedback

Books

Mipham rinpoche

About 217,000 results (0.72 seconds)

https://www.rigpawiki.org › title=Mipham_Rinpoche

Mipham Rinpoche - Rigpa Wiki

Mar 14, 2021 — **Mipham Rinpoche** was born in the region of Derge in eastern Tibet. At the age of fifteen he undertook eighteen months of intensive retreat on ...

Date of birth: 1846

Biography · Writings · Further Reading

People also ask

What happened to Sakyong Mipham Rinpoche?

Who is Mipham Rinpoche?

Is Sogyal Rinpoche still alive?

Is Shambhala a Buddhist?

Feedback

https://en.wikipedia.org › wiki › Jamgön_Ju_Mipham_...

Jamgön Ju Mipham Gyatso - Wikipedia

Jamgön Ju Mipham Gyatso, or Mipham Jamyang Namgyal Gyamtso (1846–1912) was a very influential ... He is now known as Sakyong **Mipham Rinpoche**, and is the spiritual head of ...

More images

Jamgön Ju Mipham Gyatso

Philosopher

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At mainland China as: 麥彭仁波切（麦彭仁波切）

Search result at 6/28/2021

Bridging Separate Worlds

Name missing on Wikidata
Adding the Missing Link

2021 Forestj (talk | contribs) . . (125,652 bytes) (+84) . . *(Added Chinese alias: 麥彭仁波切)* (undo) (resto

2021 Forestj (talk | contribs) . . (125,568 bytes) (+80) . . *(Added [zh-cn] label: 麦彭仁波切)* (undo) (restore

Google 麥彭仁波切 ✕ 🎤 🔍

🔍 All 🖼 Images 📰 News 📍 Maps ▶ Videos ⋮ More   Tools

About 171,000 results (0.80 seconds)

Jamgön Ju Mipham Gyatso (米龐仁波切)

Philosopher

Overview

Books

Videos

⋯

https://baike.baidu.com › item › 全知... · **Translate this page** ⋮
全知麦彭仁波切_百度百科
全知麦彭仁波切从小就异于常童。六、七岁时已能背诵《三戒论》，尤其是，他在七岁这年明显地著写了汇集显密甚深精要的窍决藏──《定解宝灯论》。

https://baike.baidu.hk › item › 麥彭... · **Translate this page** ⋮
麥彭仁波切_百度百科
麥彭仁波切，舊譯寧瑪巴大師、麥彭降央南迦嘉措仁波切(1846──1912)，祖系屬天族(西藏一貴族種姓)，父名傑·滾波達吉，母名穆波東渣仲羌瑪，於藏曆第十四勝生丙午 ...

http://www.ptz.cc › uploads › media › quanzhima... 📄PDF ⋮
全知麦彭仁波切略传 - 菩提洲
全知麦彭仁波切略传. 法王如意宝晋美彭措著. 索达吉堪布译. 殊胜佛子佛法大教主. 觉空界中早获智慧藏. 如母待儿慈护诸有情. 文殊金刚化身前顶礼.
18 pages

https://www.lama.com.tw › index2 · **Translate this page** ⋮
全知麥彭仁波切略傳 - 喇嘛網
Jan 14, 2012 — 全知麥彭仁波切略傳 ... 三世諸佛智慧總集之文殊師利菩薩，其智慧種子"得"（）字，在釋迦牟尼佛所化剎土──藏地雪域變成以人形利益無邊眾生，使其皆獲殊勝 ...

Videos ›

菩提洲—麦彭仁波切《开显解脱道》讲记—28

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Feedback

Books
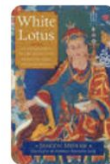
White Lotus: An Explanat...

Gateway to Knowledge
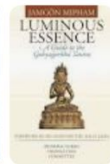
Luminous Essence: A Guide...
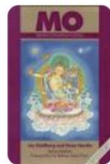
Mo: Tibetan Divinatio... 1990

Project Setup

A global program focused on bringing more student developers into open source software development. Students work with an open source organization on a 10 week programming project during their break from school.

WikiLoop: Loop back knowledge from Google etc. to open knowledge world and embrace unique and unprecedented opportunities for data precision, coverage and freshness
Tibetan Initiative: a branch effort of WikiLoop
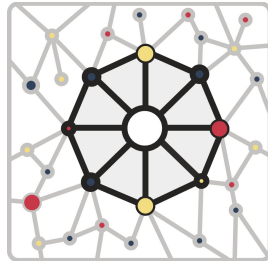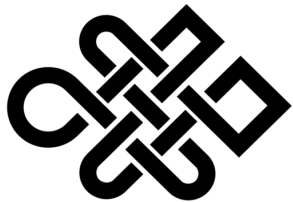
Buddhist Digital Resource Center (BDRC)
Connecting Buddhist literature with the world.
The Buddhist Digital Archives (BUDA)
A knowledge graph with full content access.

Buddhist Digital Resource Center (BDRC)
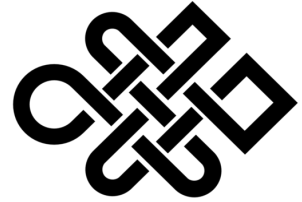
- E. Gene Smith

- 80k volumes of texts, 20M images

- public domain / CC0 license

- large database of persons and places

- Buddhist Digital Archives, Linked Open Data (LOD)

- https://www.bdrc.io

- Wikidata property wd:P2477 (BDRC Resource ID)

Importing BDRC's entities on Wikidata
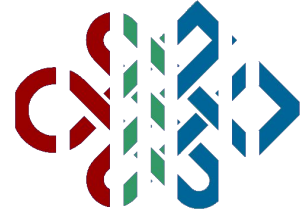
- make the Tibetan culture more visible in the Wikipedia world

- incite our users to contribute to Wikidata / Wikipedia

- better connection with the rest of the world:

    - VIAF (libraries)

    - other Buddhist databases (ex: DILA Authority Database)

- crowdsourcing

Methodologies

Workflow overview
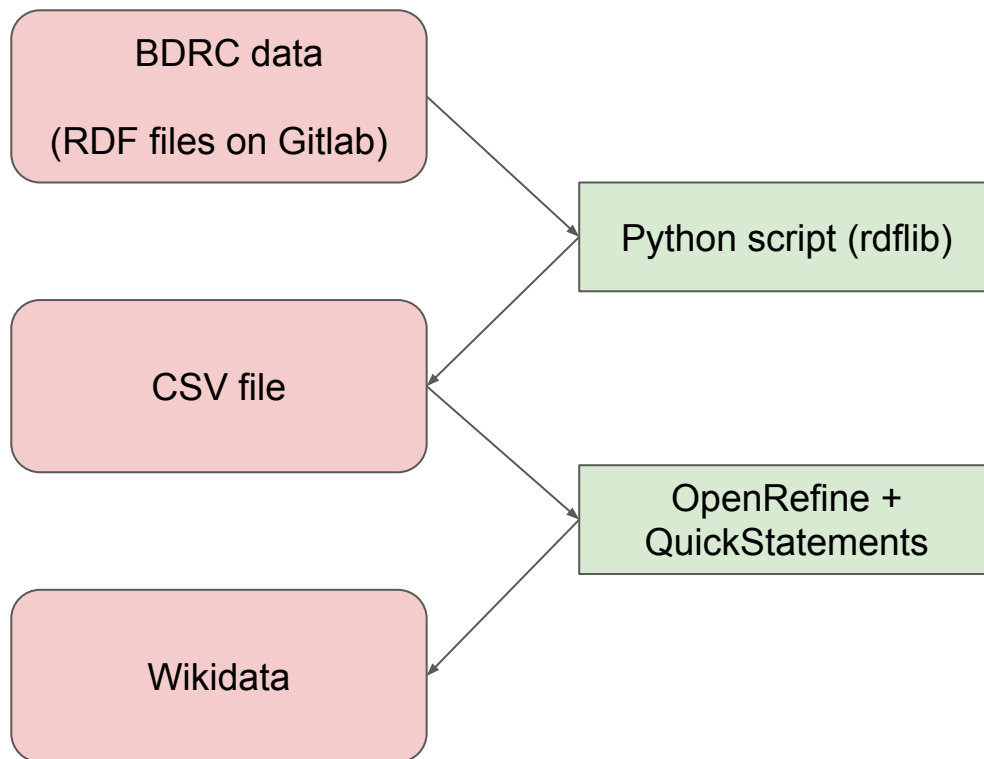
Example Person Entity

Longchenpa [Q1708503](), [P1583]()

- names and aliases
- BDRC ID: strong recon hint
- gender / date of birth …
- father / mother / child
- student / student of
- occupation
- religion (religious school)

Longchenpa (Q1708503)

Tibetan buddist

klong chen pa

▾ In more languages

Configure

Language	Label	Description
English	Longchenpa	Tibetan buddist
Tibetan	ཀློང་ཆེན་རབ་འབྱམས་པ་དྲི་མེད་འོད་ཟེར།	No description o
Chinese	隆钦热降巴·赤墨俄色	No description o
Spanish	Longchenpa	No description o

All entered languages

Statements

instance of	human
	▸ 1 reference

Schema Mapping for Persons

- [name](#)
  - [Other Name](#)
  - [Personal Name](#)
  - [Primary Name](#)
  - [Primary Title](#)
  - [Secret Initiatory Name](#)
  - [other title](#)
  - variant label: No link to this entity was present
- [Occupies Seat](#)
  - [place](#): [shug gseb dgon](#)
- [associated tradition](#)
- Roles (occupation):
  - [Artist](#), oral translator, main author
  - [Compiler](#), reviser, [Bard](#)
  - [sponsor](#)
  - [Scribe](#) - https://library.bdrc.io/show/bdr:R0EI
  - [Commentator](#) - https://library.bdrc.io/show/bc
  - [Reciter](#) -

Has Role:	attributed author
	compiler
	contributing author

Has Role:	tertön $_{en}$

More Information	Source	Notes

Language/Script: English

In Other Languages: gter ston $_{bo-x-ewts}$; gter ston/ $_{bo-x-ewts}$

Comment: An individual who revealed the Work as treasure texts (specific to the Tibetan context)

Ontology Property: bdr:R0ER0025

Importing Person Entities

2-step import

- step 1: import information on each person (names, dates, religious school, occupation)
- step 2: import relationships between persons (kinship, teacher / student)
- spot check on random samples of 50 records

Example Place Entity

Drepung monastery [Q241937](#) [G108](#)

Common Properties:

Wikidata	BDRC
Name Label: Drepung Monastery ([Q241937](#))	bras spungs dgon [G108](#)
[instance of](#) : [Buddhist temple](#)	[type](#): monastery [bdr:PT0037](#)
[country](#) : [People's Republic of China](#) [located in the administrative territorial entity](#) : [Lhasa](#)	[located in](#) : [lha sa](#)
[inception](#) : 1416	[Event](#): [Founded](#): [in year](#): 1416 [associated tradition](#): dge lugs
[coordinate location](#) : [29°40'35"N, 91°2'51"E](#)	[Latitude](#): 29.67623 [Longitude](#): 91.04701

Drepung Monastery (Q241937)

Drepung Manastırı
zhebang si

▼ In more languages

Language	Label	Description	Also known as
English	Drepung Monastery	Drepung Manastırı	zhebang si
Arabic	No label defined	No description defined	
Tibetan	འབྲས་སྤུངས་དགོན	No description defined	
Hindi	No label defined	No description defined	
Sanskrit	No label defined	No description defined	

All entered languages

Statements

instance of	⇕ Buddhist temple	✎ edit
	▼ 0 references	
		+ add reference
	⇕ Tibetan Buddhist monastery	✎ edit
	▸ 1 reference	
		+ add value

image	⇕	✎ edit

Schema Mapping for Places

Mapping:
- name
- associated tradition
- GIS coordinates
- inception

More challenging:

- [Buddhist temple](#) vs [Buddhist monastery](#)
- Manual mapping of the modern administrative entities, ignored the pre-modern regions
- Some monasteries of Tibet have been rebuilt in India with the same name (e.g., Drepung Monastery)

Importing Place Entities

- workflow similar to Persons
- Imported places with Name, Place Type, Latitude, Longitude, religion and inception date
- Spot check on random samples of 50 rich entities

Helps From Wikidata Community

help from [Steven Liuyi](#):

- did import many BDRC person records before the project started
- helped us review the first import tests
- reported issues in BDRC records
  - duplicates
  - Incorrect language tag of person names
- common practice
  - Do not remove ID, but mark deprecated.

Unexpected Overwritten Label

- QuickStatements always overwrites labels, even when exported from OpenRefine configured with the "do not overwrite labels" option
- Got complains from Wikidata community ([link](#)) and the problem was dealt with immediately
- Difficult to revert the overwritten labels without reverting the whole batch
- for places, used direct export from OpenRefine for places already existing on Wikidata (no issue in that case)

tagore, rabindranath (Q7241)

Revision as of 07:56, 5 July 2021 by PPSingh07 (talk | contribs) *(Changed English label: tagore, rabindranath, batch #58477)*
(diff) ← Older revision | Latest revision (diff) | Newer revision → (diff)

Bengali poet and philosopher (1862-1941)
Rabīndranātha Thākur | Kabiguru | Tagore | Bishwakabi | R. Tagore | Rabindranat Tagor | Bhanu Singha Thakur | Gurudev | Biswakabi | Nyi Wang Gönpo | Tagore, rabindranath

▾ In more languages

Language	Label	Description	Also known as
English	tagore, rabindranath	Bengali poet and philosopher (1862-1941)	Rabīndranātha Thākur Kabiguru Tagore Bishwakabi R. Tagore Rabindranat Tagor Bhanu Singha Thakur Gurudev Biswakabi Nyi Wang Gönpo Tagore, rabindranath
Arabic	روبندرونات طاغور	أديب وفيلسوف هندي شهير حائز لجائزة نوبل	
Tibetan	ཁུ་དབང་མགོན་པོ།	No description defined	
Hindi	रवीन्द्रनाथ ठाकुर	कवि, रबीन्द्रनाथ टैगोर साहित्यकार, तत्वज्ञानी, गीतकार एवं संगीतकार भी है	रबिन्द्नाथ ठाकुर
Sanskrit	रवीन्द्रनाथ ठाकुरः	वङ्गभाषायाः कविः, कथालेखकः, सङ्गीतज्ञः, नाटकरचयिता च	

All entered languages

Bug in QuickStatements

Entities added multiple times in the same QuickStatements batch

- known bug: https://phabricator.wikimedia.org/T234162
- Example : Q107411984 = Q107411985 = Q107411986
- expected to be dealt with by the bot merging 100% identical entries

Example Search Result Changes

ཞེ་ཆེན་རྒྱལ་ཚབ་ 0�་འགྱུར་མེད་པདྨ་རྣམ་རྒྱལ།

Q All   Images   Videos   News   Maps   More   Tools

About 8,140 results (0.27 seconds)

https://www.tbrc.org › ... ▾

P235 - Buddhist Digital Resource Center

ཞེ་ཆེན་རྒྱལ་ཚབ་ 0༙་འགྱུར་མེད་པདྨ་རྣམ་རྒྱལ། སྐྱ་སྐྱའི་མཚན་གནས། ཞེ་ཆེན་རྒྱལ་ཚབ ...

https://dharmacloud.tsadra.org › Home › Authors

ཞེ་ཆེན་རྒྱལ་ཚབ་འགྱུར་མེད་པདྨ ...

ཞེ་ཆེན་རྒྱལ་ཚབ་འགྱུར་མེད་པདྨ་རྣམ་རྒྱལ། ཚང་མ་སྟོན་བཞིན་པ 13 སྟོན་བཞིན་པ།

http://www.khamchechen.com › ༄༅།-ཞེ་ཆེན་རྒྱལ་ཚབ་འགྱུ ▾

༄༅། །ཞེ་ཆེན་རྒྱལ་ཚབ་འགྱུར ...

04-May-2017 — །ཞེ་ཆེན་རྒྱལ་ཚབ་འགྱུར་མེད་པདྨ་རྣམ་རྒྱལ་གྱི་རྣམ་ཐར་ མདོར་བསྡུས།

Images for ཞེ་ཆེན་རྒྱལ་ཚབ་ 0༙་འགྱུར་མེད་པདྨ་རྣམ་རྒྱལ།

Feedback

→ More

http://www.khamchechen.com ▾

ཞེ་ཆེན་བསྟན་གཉིས་དར་རྒྱས ...

ཞེ་ཆེན་བསྟན་གཉིས་དར་རྒྱས་གླིང་། ... ཞེ་ཆེན་རྒྱལ་ཚབ་རིན་པོ་ཆེ་འགྱུར་མེད་པདྨ་རྣམ ...

Google

ཆེ་ཕོས་ ༠༣ ་བློ་བཟང་བྱུང་ཆུབ་བསྟན་པའི་སྒྲོན་མེ།

🔍 All   ▶ Videos   🖼 Images   📰 News   📍 Maps   ⋮ More   Tools

About 8,240 results (0.49 seconds)

https://www.tbrc.org › ... ▾

P238 - Buddhist Digital Resource Center
ཡོངས་གྲགས་ཀྱི་མཚན་གནས། ཆེ་ཕོས་ ༠༣ ་བློ་བཟང་བྱུང་ཆུབ་བསྟན་པའི་སྒྲོན་མེ། མཚན་བྱུང་།

https://www.tbrc.org › ...

W3CN22845 - Buddhist Digital Resource Center
ཆེ་ཕོས་མ་འད་ཆེན་བློ་བཟང་བྱུང་ཆུབ་བསྟན་པའི་སྒྲོན་མེའི་རང་རྣམ། ...

🖼 Images for ཆེ་ཕོས་ ༠༣ ་བློ་བཟང་བྱུང་ཆུབ་བསྟན་པའི་སྒྲོན་མེ།

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https://treasuryoflives.org › biographies › view › Lobza... ▾

The Third Chesho, Lobzang Jangchub Tenpei Dronme - The ...
ཆེ་ཕོས་ ༠༣ ་བློ་བཟང་བྱུང་ཆུབ་བསྟན་པའི་སྒྲོན་མེ། The Third Chesho, Lobzang Jangchub Tenpei Dronme. b.1861 - d.1933

https://m.tibet3.cn › action › ShowInfo ▾

ཇེ་བློ་བྲག་རིན་པོ་ཆེ་བློ ...

Google

ཆེ་གོས་ ༠༣་བློ་བཟང་བྱང་ཆུབ་བསྟན་པའི་སྒྲོན་མེ།

All   Images   Videos   News   Maps   More   Tools

About 13,600 results (0.64 seconds)

https://www.tbrc.org › ...
P238 - TBRC
ཡོངས་གྲགས་ཀྱི་མཚན་གནས། ཆེ་གོས་ ༠༣་ བློ་བཟང་བྱང་ཆུབ་བསྟན་པའི་སྒྲོན་མེ. མཚན་བྱང་.

https://www.tbrc.org › ...
P238 - Tibetan Buddhist Resource Center
Chinese Name. 却西·洛桑降曲丹白卓麦. Primary Title. ཆེ་གོས་ ༠༣་ བློ་བཟང་བྱང་ཆུབ་བསྟན་པའི་སྒྲོན་མེ.

Images for ཆེ་གོས་ ༠༣་བློ་བཟང་བྱང་ཆུབ་བསྟན་པའི་སྒྲོན་མེ།

View all

Chesho 03

Born: 1861 (age 160 years)
Parents: Ka To, Ser Zuk Mong Gen Gyal

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Google འབྲི་གུང་ཆུང་ཚང་ ༠༡ ཆོས་ཀྱི་གྲགས་པ། ✕ 🔍

🔍 All   🖼 Images   ▶ Videos   📰 News   ◎ Maps   ⋮ More   Tools

About 24,600 results (0.39 seconds)

https://www.tbrc.org › ... ▾
P2666 - Buddhist Digital Resource Center
འབྲི་གུང་ཆུང་ཚང་ ༠༡ ཆོས་ཀྱི་གྲགས་པ། ... 1) dang po ni/ dkon mchog 'phrin las bzang po/ long por 'khrungs/ dgung lo drug cu re ...

https://www.tbrc.org › ... ▾
P4278 - Buddhist Digital Resource Center
ཡོངས་གྲགས་ཀྱི་མཚན་གནས། རས་ཆུང་རྡོ་རྗེ་གྲགས་པ། སིང་གནཧྣ། རས་ཆུང་པ། ...

🖼   Images for འབྲི་གུང་ཆུང་ཚང་ ༠༡ ཆོས་ཀྱི་གྲགས་པ།

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https://bo.wikipedia.org › wiki › གཙ་དུས་གསུམ་མཁྱེན་པ ▾
གཙ་དུས་གསུམ་མཁྱེན་པ - Wikipedia
... རྣག་མེང་གི་གྲགས་ཀྱིས་སྐློ་དཔོན་མཆང་དེ་རབ་བྱུང་བཞིས་པའི་མཚན་ལ་མཆོས་ཀྱི་གྲགས་པ ...
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https://www.serajeyrigzodchenmo.org › ཆོས་མས། ▾

Google

འབྲི་གུང་ཆུང་ཚང་ ༡༠་ཆོས་ཀྱི་གྲགས་པ།

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P2666 - Buddhist Digital Resource Center
འབྲི་གུང་ཆུང་ཚང་ ༡༠་ ཆོས་ཀྱི་གྲགས་པ། ... **1**) dang po ni/ dkon mchog 'phrin las bzang po/ long por 'khrungs/ dgung lo drug cu re ...

https://www.tbrc.org › ...
P4581 - Buddhist Digital Resource Center
ལོངས་གྲགས་ཀྱི་མཚན་གནས། འབྲི་གུང་ཆུང་ཚང་ ༡༠ བསྟན་འཛིན་ཆོས་ཀྱི་འབྱུང་གནས།

https://www.facebook.com › earlytibet › posts
འབྲི་གུང་བ... - Early Tibet and Tibetan ཐུ ...
འབྲི་གུང་བགྱད་བརྒྱུད་པའི་གདན་ས། ... ཆོས་རྗེ་སྐྱོབ་པ་བཅས་ཀྱི་འདུ་འཕྲུ་གཤུ་འདོམས་གང་ ...
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https://github.com › OpenPecha
OpenPecha/P010732: མགོན་པོ་འབྲི ... - GitHub
Alternative Title. Author, འབྲི་གུང་ཆུང་ཚང་ ༡༠་ཆོས་ཀྱི་གྲགས་པ། BDRC ID, W1KG9675. Creator, Google OCR. Number of Volumes, 1.

Chokyi Drakpa

Writer

Born: 1595 (age 426 years)

Parents: Tsang Tö Gyalmo, Chögyal Rinchen Püntsok

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Future Works

Future works

- apply the same methodology to other databases (DILA Authority Database, Pandit Project, etc.)
- develop phonetic conventions for Tibetan to add English labels
- add proper Sanskrit names
- develop workflow to keep Wikidata in sync with BDRC
- develop methodology for bibliographical records (works, manuscripts, etc.)
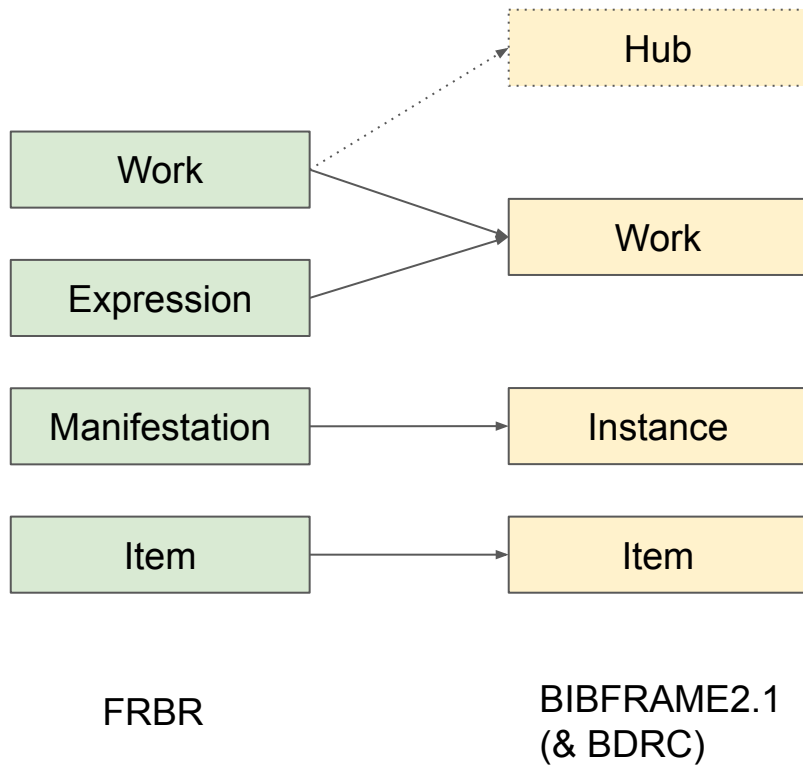
Importing Book Entities
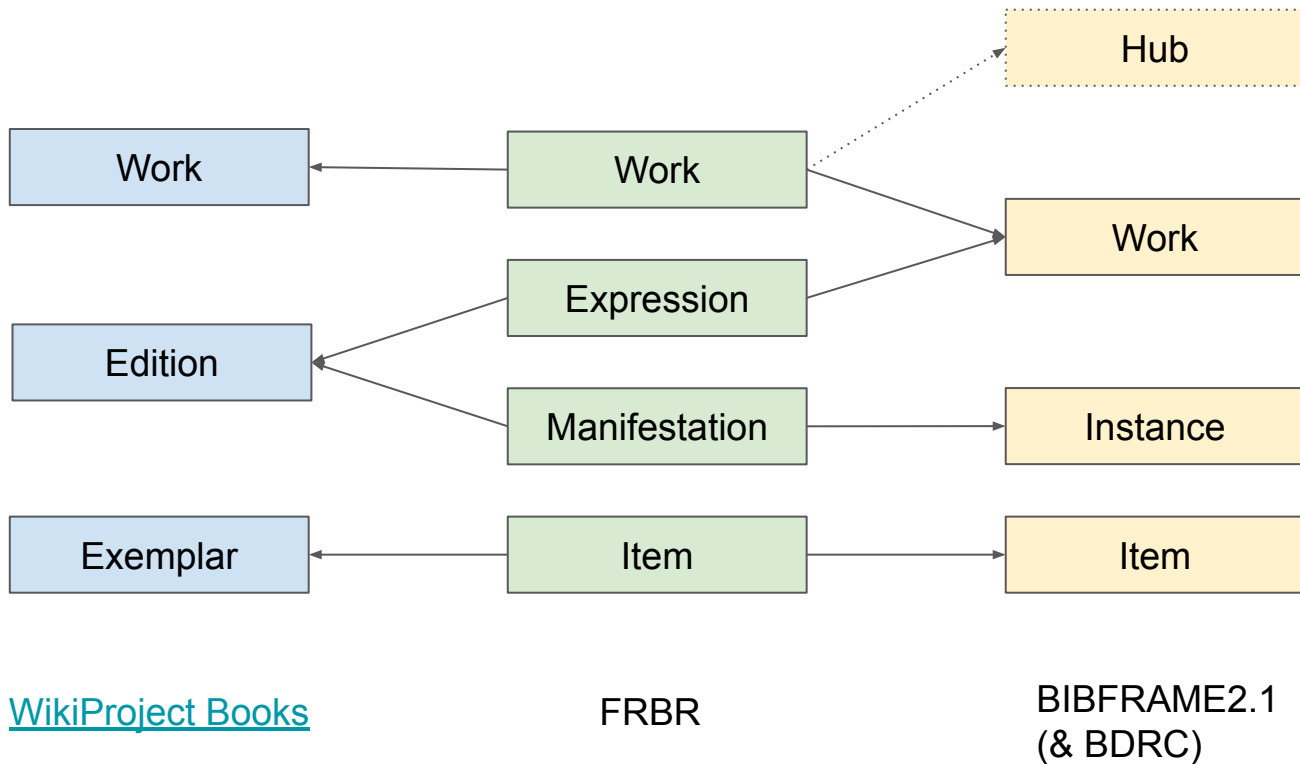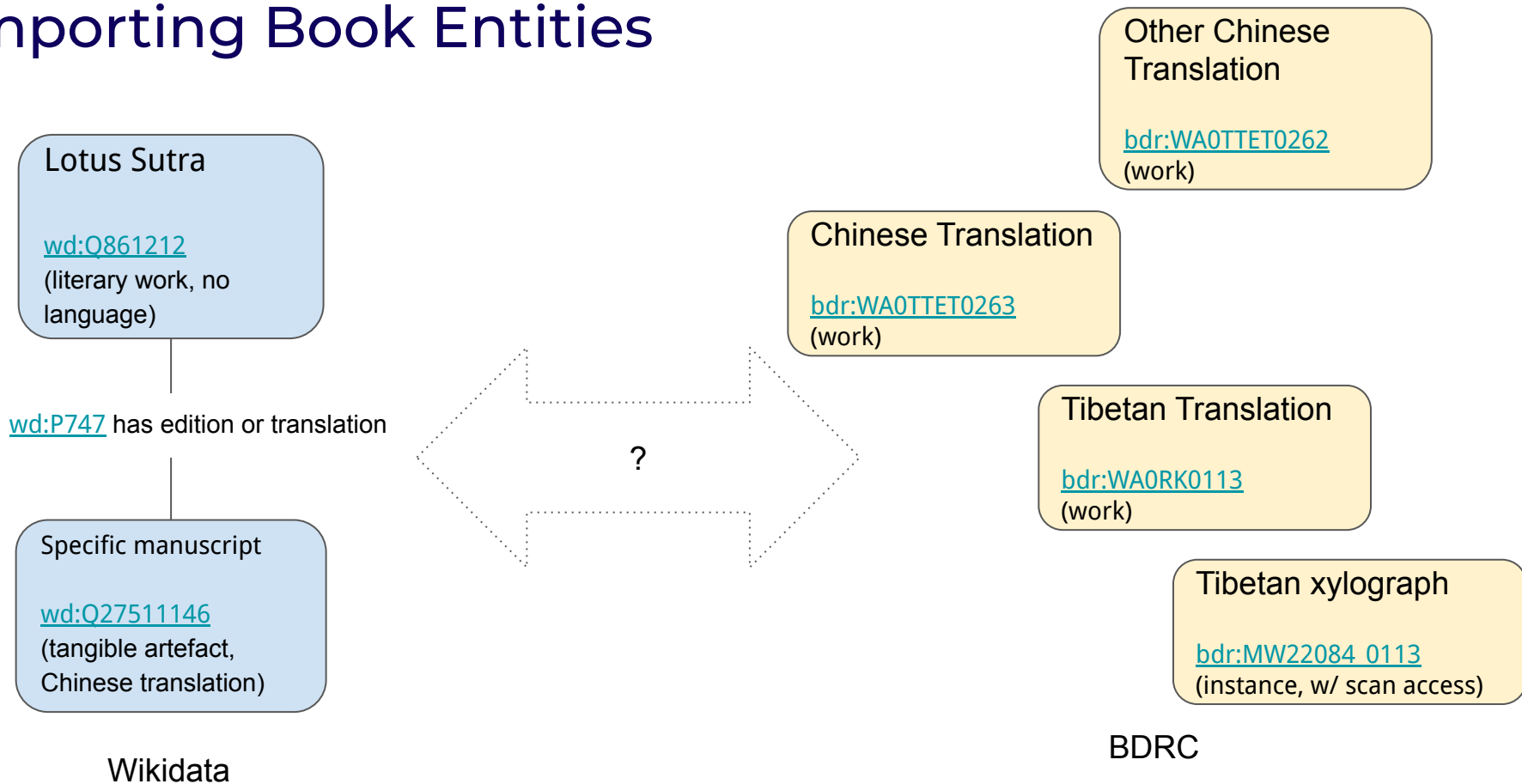
Work

Expression

Manifestation

Item

FRBR

Importing Book Entities

Importing Book Entities

Importing Book Entities

Lotus Sutra

wd:Q861212
(literary work, no language)

wd:P747 has edition or translation

Specific manuscript

wd:Q27511146
(tangible artefact, Chinese translation)

Wikidata

?

Other Chinese Translation

bdr:WA0TTET0262
(work)

Chinese Translation

bdr:WA0TTET0263
(work)

Tibetan Translation

bdr:WA0RK0113
(work)

Tibetan xylograph

bdr:MW22084_0113
(instance, w/ scan access)

BDRC

Thanks for your attention!

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elanhr@google.com

WIKI DATA CON
2021 - a sustainable future for Wikidata

Appendix

Tibetan Language Needs Better Digital Support

● Even within Google

Thinks it is a single word

Broken display of one single continuous
Tibetan paragraph in Google Docs
(fixed in March 2020)

Problems in Basic Search support
(to be fixed 2021 YE)

Further Ideas on Improving Wikidata

- Add Tibetan names mentioned in Wikipedia article to Wikidata.

If wikidata doesn't have this Tibetan name, users will have difficulties finding correct entity in Google with only Tibetan name.