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Encoding for Endangered Tibetan Texts

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Abstract

For over a thousand years, Tibet has preserved and translated ancient Buddhist Sutras from India, keeping the tradition of Buddhist philosophy and meditation alive long after it died out in India by the 12th Century. Recent efforts to digitize materials from this textual tradition offer opportunities to broaden the circulation of rare materials to the exiled Tibetan scholarly community, but also suggest conceptual challenges arising from the complexity of the texts and their inherently multimodal character. This paper describes the scholarly and meditative traditions from which these texts come, and discusses possible approaches to their digitization.

For over a thousand years, Tibet has preserved and translated ancient Buddhist Sutras from India, keeping the tradition of Buddhist philosophy and meditation alive long after it died out in India by the 12th Century. The accuracy of the Tibetan translations of Sanskrit Buddhist texts meant that modern scholars could establish the oldest versions of Buddhist theories with some reliability. As the 19th Century scholar F. Max Müller noted,

The Tibetan version [of The Buddha-karita of Asvaghosha] appears to be much closer to the original Sanskrit than the Chinese; in fact from its verbal accuracy we can often reproduce the exact words of the original, since certain Sanskrit words are always represented by the same Tibetan equivalents, as for instance the prepositions prefixed to verbal roots. [Müller 1894, vii]

Known not only for their care in translation but also for their understanding of Buddhism, Tibet's monastic scholars added commentaries to the original Indian root texts, and they established hundreds of libraries and universities where the texts could be studied. Through the ages, Tibet's ancient texts have received careful handling and storage as sacred texts; they were printed by hand from wood blocks, wrapped in silk covers, and stored on shelves behind the main altars of the shrine rooms in monasteries and temples. Representing one of the Three Jewels of Buddhism — the Dharma — the texts instruct Buddhists on how to achieve enlightenment.

But canonical texts represent only one piece of what has always been a multimedia enactment of the key meanings of Vajrayana Buddhism, the particular form of Buddhism that Tibet inherited from India. Vajrayana Buddhism (also known as Tantra) emphasizes intensive meditation, but its meditation methods incorporate complex visual imagery, bodily movements, the sounds of drums and horns, as well as the chanting of the texts within the overall container of quiet meditation practice. Instructions on these visualizations, bodily gestures and chanting practices have been passed down through oral lineages, teacher to student, codified by sacred rituals in which monastics joined together in learning and standardizing these practices.

Today the Tibetan textual tradition faces extinction unless serious efforts are made to preserve it and the Vajrayana practices it supports. In the years following the Chinese invasion of Tibet in the 1950s, Tibetan scholars struggled to preserve and circulate the classical texts of their ancient Buddhist heritage. Many books were lost during the 1960s and 70s when the Chinese launched the Cultural Revolution on Tibetan soil, destroying the libraries, temples, monasteries and universities in Tibet that had kept the books safe. Some important, time-honored texts elucidating Tibet's distinctive Vajrayana meditation methods, liturgies and philosophical investigations may never be found again, although the search by Tibetans still continues today for these famous commentaries and instruction manuals.

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The Tibetan scholars who fled into India first attempted to preserve the texts they carried with them by printing the texts without delay. But at that time, the paper available in India was of such poor quality (it was non-acid-free paper or rice paper) that the print bled through from both sides, making the texts illegible [Marvet 2006]. Many classical Tibetan texts were never reprinted at all but were left in their original hand-printed, woodblock form (called "pecha" texts; see Figure 1). The lack of facilities and poor economic conditions for Tibetan refugees as they scattered abroad introduced added risks for the storage of their paper texts. Simply transcribing the rescued texts and protecting them in archives were stopgap measures. With Tibetan refugees living in India, Europe, North America, South America, and other parts of Asia, it was impossible to establish centrally located archives where all Tibetans could easily study the texts and learn the highly detailed Vajrayana meditation methods described in the texts. When Western scholars and meditators became interested in learning about Tibetan Buddhism, they also found it difficult to locate or understand the old Tibetan texts mentioned in more recent commentaries. Not only were indigenous Tibetan scholars unable to verify which ancient texts had actually been preserved or where the texts had been stored, but the iconography and complex symbolism associated with Vajrayana texts were not explained in the texts themselves.

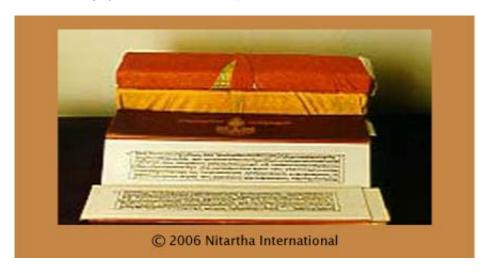


Figure 1. Tibetan "pecha" texts

By the late 1980s Tibetan scholars recognized the possibilities of digital formats for preserving their texts and for circulating the texts amongst the far-flung members of the Tibetan community [Chilton 2006]. Digitized texts could be made accessible to Tibetan and western scholars around the world through the Internet, and digital formats also made cataloguing the texts and searching for specific titles easier, so that a more accurate assessment could be made of which texts had survived and which texts were still missing. Several digitizing projects began in India, Nepal, Europe and North America.

Today, after over a decade of work, there are digital archives of thousands of Tibetan books.^[1] For example, one of the Tibetan scholars committed to digitizing the Tibetan canon, the Dzogchen Ponlop Rinpoche, established the Nitartha International Document Input Center in Kathmandu, Nepal, with a team of Tibetan monks, Tibetan refugees born in diaspora, and western computer specialists. At the Input Center, indigenous Tibetan scholars represent classical Tibetan texts in digital formats that would be most useful for Tibetan scholars in exile and for Tibetan translators. In addition to its digitization of texts, Nitartha International has developed a Tibetan font software, several informative websites on Tibetan Buddhism, and modern educational materials linked to classical texts, such as CDs with interactive modules that outline the logic of philosophical arguments, define basic concepts used in Buddhist philosophy, and represent key points through visual images.

Recently, some indigenous Tibetan scholars have also begun to learn TEI encoding for their digitized texts. The Text Encoding Initiative (TEI) is an XML language designed for representing literary and historical texts. Maintained by an international consortium of major universities, the TEI publishes detailed guidelines and documentation of this language, maintains a listsery for questions, trouble-shooting and general discussion amongst TEI users, and holds a yearly

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meeting for the hundreds of TEI projects and encoders scattered around the world. What Tibetan scholars see in TEI is not only a markup language, but a flexible text publishing method for digital texts, a cataloguing schema for archiving the texts, and an application that will make it easier to conduct analytical searches and link the texts to their translations. One obstacle to using TEI (or any XML language) for the Tibetan canon is that Unicode for the Tibetan language only became available recently, in partial form. Even though texts can now be encoded in Unicode, they cannot be printed in the Tibetan Unicode script.

This example of Tibetan scholars experimenting with TEI for their ancient texts shows the promise of TEI for multicultural texts. Multiculturalism as a theoretical approach aims to respect the autonomy and value of other cultures. Recently, the TEI consortium has initiated a project to translate its Guidelines into as many languages as possible [Rahtz 2005]. Without denying the very concrete economic and political forces that create the Digital Divide, the TEI consortium intends to support indigenous scholars as they protect and sustain their own textual traditions. In this way the Text Encoding Initiative is expanding its work beyond its original North American and European borders, becoming a global digital technology that is supportive of multicultural textual traditions. The TEI consortium has welcomed Tibetan forays into what started as a western scholarly undertaking, because TEI members understand that text preservation by multicultural, and especially minority, populations is important. Providing indigenous scholars and teachers with tools for keeping their textual traditions alive helps secure the future for all the literatures of the world.

Not only is TEI an important strategy for preserving rare texts, but the TEI Guidelines offer a standard set of schemas and documentation that is widely used in the international scholarly community. By representing their texts through this scholarly framework, indigenous Tibetan scholars can introduce their textual tradition to the wider scholarly community. Over the centuries, Tibetan scholars have developed a painstaking system for marking up the internal organization of their texts — a system which delineates between several layers of scholastic commentaries on the original Sanskrit root text. Its inherent complexity makes the Tibetan canon a natural for TEI encoding. The TEI guidelines have been designed with complex historical texts in mind — the texts expected to endure through the ages. The guidelines also offer specific ways to represent the complicated scholarly features of historical texts. This precision of TEI encoding is a good match for the complexity of Tibet's commentarial tradition. Tibetan commentaries form a nesting structure, such that later commentaries include and surround earlier commentaries, which themselves include and surround the original Indian Sutra. The Tibetan commentaries proceed paragraph by paragraph, verse by verse, or sometimes even line by line in explicating the meaning of the earlier text(s). All of these complicated internal divisions of a text can be captured by TEI encoding. TEI encoding can also represent linkages between texts, for example between the original Tibetan text and translations of the text in western languages.

As an example, consider the following passage from a Tibetan commentary which concerns the differences between two philosophical schools, the Consequentialists and the Autonomists. The indented verses are from a root text, Nagarjuna's Fundamental Verses on Centrism. Generally, Tibetan commentaries such as the one below quote lines from the earlier root text and then explain the meaning of that quoted passage in detail or explore the philosophical debates that have arisen in response to that passage.

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6.2.1.2.3.1.1.1. The system of the Centrists Following the Sutras

In general, there originated many ways of commenting on the intention of the text, The Fundamental [Verses on] Centrism [called] Supreme Knowledge by noble Nagarjuna. However, these mainly fall under the two [schools of] the Consequentialists and the Autonomists. The [first verse after the eulogy] at the beginning of [Nagarjuna's] treatise reads,

Not from themselves, not from others, Not from both and not without a cause — At any place and any time, ...Entities lack arising.

As for the way to explain the meaning of this [verse]: [First], through the four claims of non-arising from the four extremes, master Buddhapalita has invalidated the [four] antitheses [of these claims], but did not set up any means to prove an actual thesis. Then, master Bhavaviveka criticized the way in which Buddhapalita had formulated his invalidation. He set up the [above four] initial sentences [about non-arising] as autonomous [probative arguments] and also proved the subject property in an autonomous way. After that, venerable Chandrakirti explained how Bhavaviveka's critique of Buddhapalita does not apply and that Bhavaviveka's acceptance of autonomous arguments in the context of his own explanation of reasonings that analyze the ultimate is flawed. Thus, he was the one who founded the tradition of the Consequentialists in an extensive manner....

Example 1. Passage from English translation of The Treasury of Knowledge

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<head type="argument">6.2.1.2.1.2.3.1.1.1. The system of the <name type="philosophical")</pre>
school">Centrists</name>
Following the Sutras</head>
In general, there originated many ways of commenting on the intention
of the text <title rend="italic">The Fundamental [Verses on]
<name type="philosophical school">Centrism </name> [called]
Supreme Knowledge</title> by noble  key="N1">Nagarjuna
However, these mainly fall under the two [schools of] the
<name type="philosophical school">Consequentialists</name> and the
<name type="philosophical school">Autonomists</name>. The [first verse
after the eulogy] at the beginning of [<persName key="N1">Nagarjuna</persName>'s]
treatise reads,
<q>
   <1g>
      <l>Not from themselves, not from others,</l>
      <l>Not from both and not without a cause<mdash></l>
      <1>At any place and any time,</1>
      <l>...Entities lack arising.</l>
   </lg>
</q>
As for the way to explain the meaning of this [verse]: [First], through the
four claims of <rs type="basic argument"> non-arising from the four extremes</rs>,
master <persName key="BP1">Buddhapalita </persName> has invalidated the [four]
antitheses [of these claims], but did not set up any means to prove an actual thesis.
Then, master <persName key="BP2">Bhavaviveka</persName> criticized the
way in which <persName key="BP1">Buddhapalita</persName> had formulated
his invalidation. He set up the [above four] initial sentences [about
<rs type="basic concept">non-arising</rs>] as autonomous [probative arguments]
and also proved the subject property in an autonomous way. After that, venerable
<persName key="C1">Chandrakirti</persName> explained how <persName key="BP2">
Bhavaviveka</persName>'s critique of <persName key="BP1">Buddhapalita</persName>
does not apply and that <persName key="BP2">Bhavaviveka</persName>'s acceptance
of autonomous arguments in the context of his own explanation of reasonings
that analyze <rs type="basic concept">the ultimate</rs> is flawed. Thus, he
was the one who founded the tradition of the <name type= "philosophical school">
Consequentialists</name> in an extensive manner....
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The challenge in using TEI to capture these Tibetan materials lies in what escapes this kind of basic encoding. Because the TEI was initially developed by scholars familiar with the western textual tradition, features of some non-western textual traditions may pose theoretical and practical challenges, and may require some adaptation of the TEI. For example, one important feature is the enunciative mode associated with the text. It is not irrelevant to Tibetan scholars whether a text is chanted, read silently, transmitted by a teacher in a lung (a ritual that empowers listeners to practice meditation or study denoted by the text), or scanned on a computer screen. Tibetans believe that their texts do not simply record information but actually embody ancient ideas or meanings that, in some situations, require appropriate methods of transmission. Thus if we were to understand Tibetan texts according to a theoretical and operational paradigm that treats them only as information, we would not only lose the original Tibetan cultural context but would lose the different degrees of "transmission power" said to be generated by different media (reading, chanting, lung transmission, etc.) within the Tibetan textual tradition. This representation of the enunciative mode, which is essential to practicing with Tibetan texts, might be accomplished by additional, customized TEI elements for the chanted sections of the texts.

Example 2. TEI encoding of the same passage

Another challenging dimension is the readers' actions in association with a text. Some of the most advanced Tibetan meditation techniques include hand movements (called mudras; Figure 2 shows examples of these gestures), bodily movements (such as prostrations), chanting, and complex visualizations. Texts are always central to these meditation methods, but engagement with the Vajrayana text is far more active than what occurs by simply reading or even chanting the text.



Figure 2. Khenpo Karthar Rinpoche and Bardor Tulku Rinpoche leading a Vajrayana meditation by chanting a text and doing mudras

For example, one of the sections of the "Medicine Buddha" meditation (which is used for healing) requires special hand movements (mudras), performed while imagining a dark blue Buddha figure as one chants the mantra of Medicine Buddha. The co-ordination of body (mudras), speech (mantra), and mind (visualization of blue Buddha figure; see Figure 3) is difficult but necessary for the Vajrayana meditation practice. Instructions on how to perform the mudras and how to chant the mantra are not in the Tibetan text itself; the image of the blue Buddha is not in the text either. Traditionally, the mudras and chant melody must be learned from a Tibetan teacher, and the visualization image is usually memorized by focusing on a thangka painting in a shrine room.



Figure 3. Thangka Painting of Medicine Buddha. © 2006 Karma Triyana Dharmachakra

These additional dimensions are not simply contextual information necessary to understand the text being encoded: in an important sense, they are integral parts of the text and its meaning, without which it cannot be said to be truly preserved. Tibetans are intent upon preserving their textual heritage, but not simply as information in storage. Instead, they aim for "real preservation" that records and encodes enough of the living textual tradition so that the texts may be taken up again by future generations in a way that continues Tibetan culture's most meaningful values and customs. Transcription or simple digitization of Tibetan texts constitutes mere "storage preservation"; the texts may be read and studied in the future, but their Vajrayana elements of mantra, mudra and meditation will not be captured, since these elements need to be practiced "live", so to speak, not just read. If a Tibetan text sits in a library or a digital archive, but no one knows how to chant it or meditate with it or debate in response to it, then the text has lost virtually all of its meaning. The fossil of the text would be preserved, but the text itself would have become extinct.

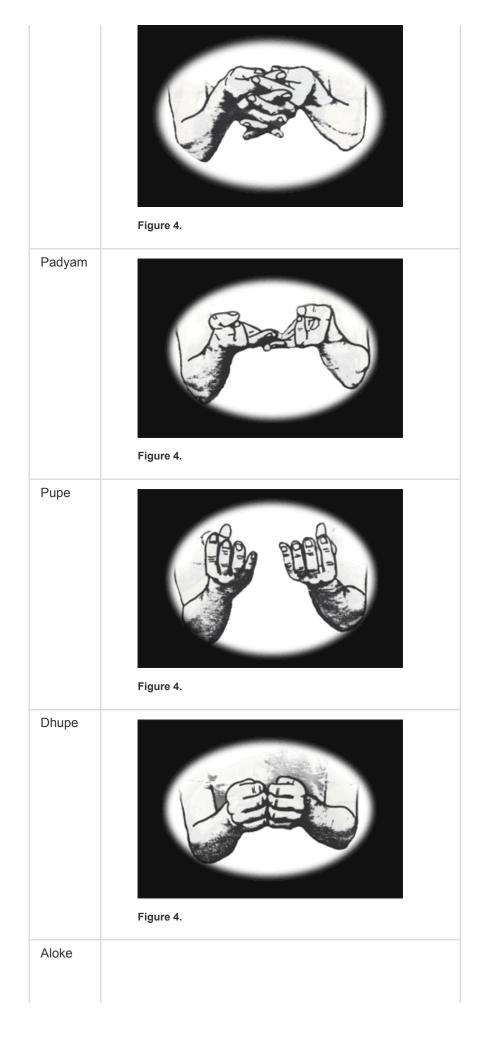
Real preservation requires the help of indigenous "text custodians" who teach the traditional ways of working with the texts. This is a pressing concern because the older Tibetan teachers who were born in Tibet before the diaspora will die in the next decade or two. When they are gone, there may no longer be Buddhist practitioners who know exactly how to chant certain texts or how to perform mudras in connection with specific textual passages or how to lead more complex rituals based on the texts. To preserve as complete a record as possible, so that the texts can live again in the meditation practices and rituals performed with the texts, the gestural, musical and mental dimensions of these texts must ideally also be recorded. Linking audio, video, and images to the transcriptions may help, but it may also be worth exploring ways to notate gestural and other information within the transcription itself. The TEI offers some approaches to this in its chapters on transcription of speech and on performance texts, and these could be extended further to accommodate the distinctive combination of information carried in Tibetan texts.

The encoded TEI file can also form the basis of a more complex multimedia representation. The TEI version of the Medicine Buddha liturgy can be linked to an audio file of the correct pronunciation and melody of the mantra, to pictures of the hand mudras that must be performed during the chanting of the text, and to a visual image of the blue Buddha figure. The TEI transcription itself can also contain instructions on how to perform the mudras or other bodily movements that occur at each point in the text, allowing them to be displayed or suppressed as appropriate. By linking the TEI transcription to multimedia resources, an editor could allow the appearance of videos, graphics or photos as memory aids at certain points in the text, which would help the reader/practitioner perform the visualization of the Buddha figure. An example is shown in Figure 4, which gives the text of a chant in multiple scripts together with a description of the mudras to be performed; these mudras are illustrated in Table 1 below. The practitioner's voicing of the chant could be corrected or accompanied by an audio file of an indigenous Tibetan chant master's articulation or by an audio file of Tibetan horns, symbols and bells.

Figure 4. Medicine Buddha text. © Heart Center Karma Thegsum Chöling

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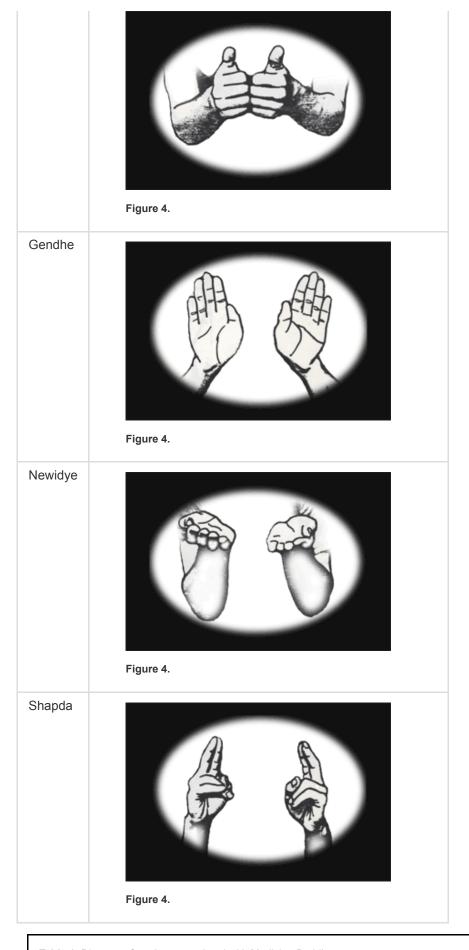


Table 1. Diagram of mudras associated with Medicine Buddha text

Click for an audio file of a Tibetan mantra. Audio file of 2005 Karma Kagyu Institute. Chanted by Umdze Lodro Samphel.

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How could the Text Encoding Initiative help indigenous "text custodians" around the world, who are struggling to protect their ancient cultural heritages? Ideally, we might envision creating a simple shared descriptive system to facilitate the cataloguing of endangered texts, so that international scholars become more aware of which texts have been lost and which have been saved. Ideally such a system would be easy to learn, by any scholar, working in any language. However, the significant differences between textual traditions and descriptive goals make it hard to create a system that would be both simple and widely agreed upon. It may be more practical to work on disseminating TEI expertise more widely among "text custodians". A second step, therefore, would be to hold workshops on these digital technologies in the universities and teachers' colleges of developing countries. The Digital Divide is closing in some parts of the world (for example, India), and outreach from well-endowed scholarly communities to poorer scholarly communities could include the sharing of digital methods for preserving texts. Supported by occasional workshops, a virtual, international community of "text custodians" trained in TEI could grow and bridge the Digital Divide between developed and developing countries.

In this endeavor, it is important to respect the control that indigenous scholars have over their own textual heritage. A textual heritage is a cultural property that can speak to the world, but it should be maintained by the people whose ancestors created it. If there are traditional rules about access to certain texts, digital technologies should not bypass these rules. Digital technologies should not be used to appropriate the world's textual riches or simply to add inventory to western digital archives. The model of broad "access" that often motivates western digitization efforts does not apply universally, and may in some cases go directly against the indigenous textual tradition. This issue comes up with regard to Tibetan texts, because some of these texts are esoteric texts, reserved for advanced meditators. It is generally presumed by western scholars that increased access to texts is better. But this presumption is not shared by Tibetan scholars, who deal with texts that require special permission and instruction from a qualified teacher before they can be read, studied, chanted or memorized. The restricted nature of some Tibetan texts relates to the difficulty of the meditation practices described in the text. Not everyone has advanced meditation skills or sufficient commitment to undertake the mental training methods relayed in the text. Before the Chinese invasion of Tibet, there were monastic libraries that contained esoteric volumes which never circulated beyond the monastery or even amongst all members of the monastery. Thus although most western scholars do not consider "trespassing" a serious textual practice crime, Tibetan scholars might regard TEI-encoded texts as inviting trespassers. This is why it is essential for any multicultural development of TEI to involve indigenous scholars, who understand the threats faced by their endangered textual tradition and are committed to protecting it.

When a culture is endangered, as the Tibetan culture is, members of that culture not only try to preserve its texts but try to continue the rituals and other practices that keep the culture alive. Transcribing texts and digitizing them are important preservation methods, but these methods need to be supplemented with other tools for awakening the texts from their archival slumber. The benefits of TEI encoding for the Tibetan canon range from enhanced preservation of the texts and greater accessibility for scholars, to support for the continuation of Vajrayana meditation practices that renew the Tibetan Buddhist heritage. Despite the challenges of reconciling Tibetan textual assumptions and western digital methods, especially if Tibetan scholars themselves learn to apply TEI encoding there is a chance that 21st century technology will not leave the ancient Tibetan textual tradition behind.

Why are modern digital methods such as TEI encoding so important for endangered Tibetan texts? There are a couple of reasons. First, digital text applications support the Tibetan scholarly community, which is spread across the globe. Online digitized Tibetan texts can be accessed by a Tibetan in exile no matter where he or she has taken up residence. The circulation of texts is made easier when the cataloguing and searching of texts follows standardized guidelines, and TEI encoding provides just this kind of standardized information. The other side of this point, however, is that the exiled Tibetan scholarly community lacks the kind of financial support that a government would normally provide for modernizing its textual tradition; this community must rely on the largesse of western scholarly institutions. By concerning itself with the plight of endangered textual traditions, the Text Encoding Initiative might provide aid to these Tibetan scholars in exile.

Another reason is that TEI encoding gives the Tibetan textual tradition entrance to an international scholarly enterprise that may make it easier for non-Tibetans to understand Tibetan Buddhism. Even though the Tibetan Buddhist tradition is being lost on its home soil, an international Tibetan Buddhist culture is appearing. Scholars and meditators in Europe and the western hemisphere are studying Vajrayana Buddhism and practicing its meditation methods, liturgies and philosophical debate techniques. Vajrayana Buddhism depends upon the direct transmission of teachings from a qualified teacher to students, but there is also a virtual dimension to this spread of Tibetan Buddhism. Tibetan Buddhists often go online to find information and to communicate with one another; digital technologies have been used to forge connections between western newcomers to Tibetan Buddhism and indigenous Tibetan monks and nuns. Compared to the restrictions on the study and practice of Tibetan Buddhism within Tibet itself, there is greater freedom online to discuss the issues and share the achievements that are important to Tibetan Buddhists. This global Tibetan Buddhist community is forming with the aid of digital communication tools unavailable twenty years ago. The adoption of TEI encoding will add a scholarly tool to this digital toolkit.

Finally, the rich heritage of Vajrayana Buddhism cannot be represented by a one-dimensional medium. Its exuberant visual imagery, its complex symbolism, its deep-toned chanting and music, and its engagement of the body in ritualized motions combine within the most advanced meditation practices. Although Tibetans do practice quiet, unmoving meditation, what is distinctive about the Tibetan tradition is the overabundance of forms — painting, music, ritualized gesture, chanting, dance, even formal philosophical debate — within its meditation practices. Digital technologies capture this rich dimension of Tibetan texts better than the simple transcription of texts can. Because TEI encoding offers ways to release a Tibetan liturgy, meditation manual or philosophical inquiry from its text-cocoon and express its full multidimensionality, TEI is one of the digital technologies that holds promise for preserving the Vajrayana textual tradition.

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- Audio file courtesy of Karma Kagyu Institute, Woodstock, NY

Notes

[1] Digitizing projects include the Nitartha International Document Input Center (http://www.nitartha.org/collections.html); the Asian Classics Input Project (ACIP) (http://www.asianclassics.org); University of Virginia's Tibetan and Himalayan Digital Library (http://www.thdl.org/index.html); the Tibetan Buddhist Resource Center (http://www.tbrc.org); the Otani Tibetan Project, Otani University, Kyoto Japan; the Drukpa Kagyu Heritage Project (http://tibet.dk/dkhp/page2.htm); the Electronic Catalogues of the Tibetan and Mongolian Collections of Buryatia Project, Institute of Mongolian, Tibetan and Buddhist Studies of the Siberian Branch of the Russian Academy of Sciences, Ulan Ude, Buryatia; and the Research Institute for Inner Asian Studies (http://www.indiana.edu/~rifias/RIFIAS_and_Inner_Asian_Studies.htm)

[2] It is not uncommon for a second-level Tibetan commentary — that is, a Tibetan commentary on an earlier commentary on an Indian Sanskrit root text — to have sections with complicated numbering (not to mention their incredibly long titles). For example, the 8th Karmapa Mikyö Dorje's commentary on Chandrakirti's commentary on Nagarjuna's root text includes a famous passage that explains the distinction between the two truths, relative truth and ultimate truth. This passage, "The extensive explanation of the individual natures of the two truths", is numbered 231.112.112.221.212.211.2. The title of the commentary by the 8th Karmapa Mikyö Dorje is *The Chariot of the Dakpo Kagyü Siddhas: The Quintessential Oral Instructions of the Glorious Düsum Khyenpa Explaining Chandrakirti's "Entrance to the Middle Way"*. (Translated by Elizabeth Callahan and included in the third-level commentary by the Dzogchen Ponlop Rinpoche, which is entitled *Commentary on "The Chariot of the Dakpo Kagyü Siddhas: The Sixth Mind Generation: The Manifest*", published by the Nitartha Institute, 1999.)

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