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Type: Working Group Document

Title: Proposal to encode Four-Column Small Seal Script in UCS

Source: TCA and China

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Summary

This document is rewritten based on n4688 and integrated with n5306 authored by Michel to form a complete discussion. It explains the background significance, version selection, glyph correction principles, and encoding strategies for Shuowen Jiezi Small Seal Script into international encoding. The Small Seal Script encoding is primarily based on the Tenghuaxie version (THX), with some glyphs modified according to the "THX Seal glyph Correction Principles" ((n5189)). The code chart adopts a four-column layout, incorporating the Chenchangzhi version (CCZ), Xiaoxu version (QJZ), and Duan Zhu version (DYC). Due to glyph differences between versions, "Mapping Principles" (n5307) were established to ensure consistency and accuracy in encoding correspondence. Principles for correspondence with modern CJK characters are also proposed. This work establishes a systematic encoding framework for Shuowen Small Seal Script and provides a technical foundation for subsequent encoding of other ancient Chinese characters.

Introduction

The "Small Seal Script (小篆)" resulted from the first standardization work for unifying Chinese characters of different ancient scripts by the government of Qin Dynasty (秦朝, 221 BC to 207 BC) of China. The Small Seal Script characters are known as the predecessors of modern Hanzi (漢字, i.e., Chinese characters). The first Chinese dictionary Shuowen Jiezi (說文解字), edited by Xu Shen (許慎, 58 AD to 147 AD), collected most of the Small Seal Script characters from documents of Qin Dynasty and early Han Dynasty (漢朝, 202 BC to 220 AD). This dictionary included 9,353 canonical Small Seal Script characters and 1,163 variants. In book *Shuowen Jiezi*, those variants were called Chongwen (重文, i.e., duplicated characters), which included

Zhouwen (籀文) and Guwen (古文). The Zhouwen was the Large Seal Script (大篆) used in Zhou Dynasty (周, 1,046 BC to 256 BC) and the Guwen were the scripts used in the other six nations excluding Qin in the Warring States period (戰國時期, 475 BC to 221 BC), which were incompatible with Small Seal characters.

There were two types of publicly accepted scripts prevailing in Qin Dynasty, canonical Small Seal Script and Clerical Script (隸書). The canonical Small Seal Script was used by government and for official documents, and the Clerical Script was used by the public. The Clerical Script was known as Qin Li (秦隸) in philology, and it was sometimes named Gu Li (古隸) to distinguish it from subsequent Han Li (漢隸). Some people think Small Seal Script is a calligraphy typeface of modern Hanzi, which is a misunderstanding. In the book *Shuowen Jiezi*, the Small Seal Script is considered as a Chinese character set of a historical stage in the development of ancient Chinese characters, like Oracle Bone script (甲骨文), Bronze inscriptions (金文) and Warring States scripts (戰國文字), and it does not belong to the same system as modern Hanzi does. In addition, a large number of Small Seal Script characters cannot be mapped to modern standard Hanzi characters one to one; although some shapes can be mapped, the Small Seal Script characters have unique structures different from their counterparts in modern Hanzi. The Small Seal Script shall not be regarded as a typeface of modern Hanzi belonging to standard Hanzi script, thus it should be encoded independently in UCS.

The Small Seal Script in the book *Shuowen Jiezi* plays an important role in the development of Hanzi, and gives distinctive value to the study and research of ancient characters:

- 1. The Small Seal Script of Qin Dynasty is the final stage of the development of ancient Hanzi characters, covering a complete structure model of pre-Qin ancient characters since Oracle bone inscriptions, and relates to the main components of the ancient Hanzi characters, and had become a required reference Chinese character set for doing textual research on and researching ancient Hanzi characters.
- 2. The Small Seal Script characters in *Shuowen Jiezi* are closely related to Zhou classic literatures of Zhou Dynasty, and the configuration of the characters can be

explained by the meanings of the classic literatures; not only does it show the feature of the ideographic Chinese characters, but it also provides the method of composing modern Hanzi characters since the period of official scripts. Chinese characters are interpreted in accordance with the *Shuowen Jiezi* in current teaching.

- 3. Having strictly collated and removed unnecessary glyphs, the Small Seal Script in *Shuowen Jiezi* built a complete system of configuration. The characters are distributed in sequence according to their sub classes, under 540 main classes of radicals. Currently, ancient Hanzi characters are collated on the basis of the radical and character order of the book *Shuowen Jiezi*.
- 4. The 540 radicals summarized in the book *Shuowen Jiezi* cover all forms and meanings of Chinese characters, and are called structural radicals with theoretical values. Some later radicals were created on the basis of simplifying and combining those 540 radicals. Such combination ignores the distinguishing feature of the united form and meaning of ideographic characters, they are merely suitable for reference purpose, and are theoretically inadequate, the 540-radical is a more complete radical system.

Selection of Original Materials

The encoding of Small Seal Script is based on four different versions of *Shuowen Jiezi*, presented in a four-column layout. The repertory and ordering are primarily based on the Tenghuaxie (THX) version, with the Small Seal glyphs from the other three versions arranged according to the sequence of the THX version. Below is a brief introduction to the four versions of *Shuowen Jiezi* used:

1.THX: Tenghuaxie version (額勒布藤花榭本)

In Song Dynasty (宋朝, 960 AD to 1279 AD), Xu Xuan (徐鉉) was ordered by the Emperor to make a complete revision of the publication. He restored the contents and recovered its original glyphs. This version is known as "Daxu Ben (大徐本, the version of Big Xu)" while the book collated by his younger brother Xu Kai (徐鍇) is known as "Xiaoxu Ben (小徐本, the version of Little Xu)". The "Daxu Ben" *Shuowen*

Jiezi is recognized as a specification version. It was followed as the major and principal reference when character glyphs were selected and ordered for this proposal.

There are 3 most popular versions of Daxu Ben Shuowen Jiezi: Tenghuaxie version (額勒布藤花榭本), Pingjinguan version (孫星衍平津館本) and Chenchangzhi version (陳昌治單行本, revised in accordance with Pingjinguan version). Both Tenghuaxie version and Pingjinguan version were made by following original Song Dynasty printed books, while Pingjinguan version was revised by the Chenchangzhi version. To retain the original contents as much as possible, Tenghuaxie version was selected first when the proposal was drafted.

2.CCZ: Chenchangzhi version (陳昌治本)

The CCZ version was created by modifying the arrangement format of *Shuowen* based on Pingjinguan version, making *Shuowen* easier to read. As a result, it has gained recognition among scholars and has become an important reference for the study of *Shuowen Jiezi*.

3.QJZ: Xiaoxu Ben (小徐本)

The Xiaoxu Ben authored by Xu Kai (徐鍇) also has multiple versions, with the Qing Dynasty Daoguang (道光) period version by 祁嶲藻刻本 widely recognized as the best. Therefore, this version serves as the basis for Xiaoxu Ben encoding.

The book *Shuowen Jiezi* was completed in Eastern Han Dynasty (東漢, 25 AD to 220 AD). After a long period of circulation, some of the original contents were changed. For example, Tang Dynasty scholar Li Yangbing (李陽冰) altered the seal script characters and Xu Shen's explanations in *Shuowen*. Xu Kai of the Southern Tang (南唐) was the first person after Li Yangbing to revise and annotate *Shuowen Jiezi*, refuting Li Yangbing's alterations. Xu Kai's compilation of *Shuowen Xichuan* (說文繁傳) is called the "Xiaoxu Ben." (Xu Xuan was the elder brother and Xu Kai the younger brother, but the "Xiaoxu Ben" was completed during the Southern Tang period (AD 960-970), earlier than the "DaXu Ben" completed during the Northern Song (AD 986)).

4.DYC: Duan Zhu Ben (段注本)

Duan Yucai (段玉裁), a leading expert in *Shuowen Jiezi* research in Qing Dynasty, revised Daxu Ben and Xiaoxu Ben and then corrected some glyphs according to the examples of *Shuowen Jiezi* itself and adjusted partial ordering of characters. His work is reflected in the book *Shuowen Jiezi Zhu* (說文解字注, annotations for *Shuowen Jiezi*, abbreviated as Duan Zhu (段注)). The Duan Zhu is an important basis for people now to learn *Shuowen Jiezi*. The different information between Daxu Ben and Duan Zhu was preserved based on Daxu Ben when the proposal was drafted.

Rules and Principles

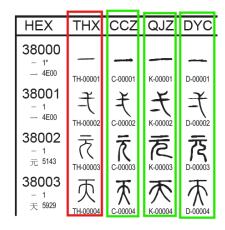
1. Mapping Principles of Small Seal Glyphs in Different Shuowen Versions

The Small Seal Script encoding presents 4 versions in a 4- columns layout. The encoding follows the radical order and intra-radical character arrangement of the THX version as the primary basis. However, glyphs differ between versions, so horizontal encoding must consider whether glyphs from different versions can be unified. Unified glyphs can be encoded at the same code point; non-unified glyphs require separate encoding. For complete correspondence principles between versions, please refer to n5307. Summary as follows:

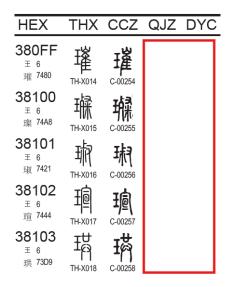
(1) General Principles:

A.**Version relationships:** The ordering, glyphs, and explanations of different versions of *Shuowen* are fundamentally consistent. The THX and CCZ version belong to the DaXu Ben, with largely identical content. The QJZ and DYC differ from the DaXu Ben in some characters, where variations may occur.

• EX: The encoding follows the radical order and intra-radical character arrangement of the THX version as the primary basis.

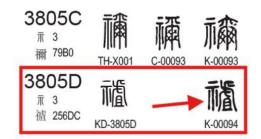


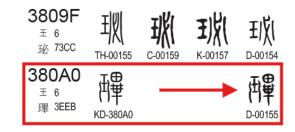
• EX: The THX and CCZ versions belong to the DaXu Ben with largely identical content, while the QJZ and DYC versions do not include the "newly added characters (新附字)."



B.**Coding sequence:** Arranged according to the order of appearance in the THX version. Those without correspondence are supplemented in sequential order.

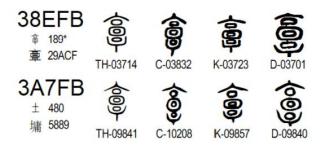
• EX: The small seal character "it" is attested only in the QJZ version after "itan", and the character "理" is attested only in the DYC version after "itan". Therefore, the glyphs KD-3805D and KD-380A0 have been added to the THX column respectively, serving as the encoding for ordering correspondence.





C. Written Form restrictions: Only compares characters within the same writing form (e.g., Seal Script, Guwen, or Zhouwen); different forms are always processed as separate characters.

• EX: The variant set has extremely similar forms. This is the relationship between Guwen (古文) (U+3A7FB) and Zhengzhuan (正篆) (U+38EFB). Guwen and Zhengzhuan are encoded separately to preserve the Shuowen system and are not adjusted due to similar glyph forms.



D.**Code Point Consistency:** Characters placed at the same code point must be consistent in both form and explanation; if contradictions exist between form and explanation, then the character is based on the form.

• EX: In case of conflict, character form takes precedence; identical glyphs share the same code point regardless of meaning.



(2) Unification Principle:

Characters meeting the following conditions are unified:

A. Taboo Glyphs

• EX: C-00023, K-00022, D-00023 of U+38016, are all unified.

Code cha	art	Disunified/ Unified		
38016 ^{京 3} 禛 ^{799B} TH-00023	C-00023	派道 K-00022	顺 D-00023	C · K · D : Unified Principle 2.(1)

- B. Those with incorrect seal script forms (glyphs inconsistent with explanations or lacking systematic component consistency)
 - (a) The glyphs are inconsistent with the explanation:
 - EX: K-03185, in the explanation from 'K' source is "从竹,『前』聲", but the glyph shows as "从竹『歬』聲".

Code chart Disunified/ Unifi	
Gode that Bisamirea, Simi	ed
38CD3	

- (b) The glyphs lack systematic component consistency
 - EX: In the Duan Zhu, the component of the character "歲" is consistently shown as "¬", but in D-00947 it appears as "¬", missing a horizontal stroke. so D-00947 can reasonably be considered incorrect and does not need to be encoded separately.

Code cha	ırt			Disunified/ Unified
383D9 世 22 噦 5666	TH-00952	C-00985	羰 K-00958 D-00947	D: Unified Principle 2.(2b)

- C. Components are systematically modified in glyph
 - EX: "門" in K, D sources. Examples:

	Co	ode c	hart		Disunified/ Unified
3A20D	門	申	64 64		K,D: Unified
FF 9580	TH-08382	C-08700	K-08395 D-08	3371	Principle 2.(3)
3A20F	單	闡	尾尾	Though the same of	K,D: Unified
閏 95C8	ノ牛 し TH-08384	半 C-08702		₽] 3373	Principle 2.(3)

D. Variant characters with the same explanations but slightly different forms, like the four versions of "臧" in Small Seal script.



- E. Phono-semantic compound structure variations (left-right or top-bottom positional interchange)
 - EX:

	(Code cl	nart		Disunified/ Unified
38AA2			独	陰數	K-02641: Unified
≋ 9DDA	川 <i>例</i> TH-02633	C-02723	K-02641	D-02618	Principle 2.(5)
39A21	出	出	出	岩区	K-02641: Unified
盘 21DE5	TH-06450	C-06678	K-06461	D-06440	Principle 2.(5)

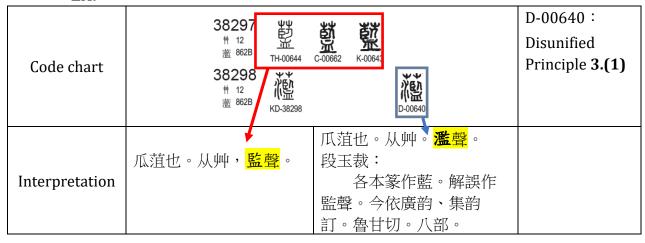
- F. **Guwen/Zhouwen Unification:** When the form cannot be verified due to insufficient explanation, keep unified encoding rather than encoding a separate code point.
 - EX:

	(Code c	Disunified/ Unified		
38640 # 45 # 569A	727 TH-01535	C-01600	K-01542	Y2Y D-01524	C-01600 : Unified
39EF8	## TH-07626	C-07913	((派 K-07641	D-07614	C-07913: Unified

(3) Disunification Principle:

Characters meeting the following conditions are encoded separately:

- A. Same pronunciation and meaning, but with differences in components , e.g., " 藍, 濫".
 - EX:



B. Compound characters with the same components and the same number of components, but with different structure.

• EX:

	Coc	de chart	-		Disunified/ Unified
386B3	些出	<u> ት</u> ዡ	元灶	で世	K-01653 · D-01636 : Dsunified
室 56	殿	和高	题	移	Principle 3.(2)
藹 85F9	TH-01650	C-01715	K-01653	D-01636	

C. single characters with the same pronunciation and meaning, but with differences in stroke count or stroke relationship (intersecting, connecting, or separate).

• EX:

	Cod	de chart	-		Disunified/ Unified
39BDC	∏ TH-06858	C-07119	ĀĀ K-06869	ĀĀ D-06848	K-06869 \ D-06848 : Disunified Principle 3.(3)

2. THX Seal glyph Correction Principles

Characters from THX version shall have shapes consistent with their original forms in the THX version. However, during organization of the Tenghuaxie Small Seal Script forms, scholars discovered character form problems. To ensure systematicity and consistency of the THX Small Seal Script character forms, corresponding corrections have been made. Based on the nature of the character form problems, 6 correction principles can be summarized. For complete explanations, please refer to ns/189. Summary as follows:

A. **Taboo glyphs:** Some glyphs seen as forbidden (such as those related to imperial names) appear in two ways: changed characters or omitting the strokes. For changed characters, they are restored by checking other versions; for characters with stroke omission, they are restored to their complete original forms.

Emperor Jiaqing's (嘉慶) name was "永琰" and later his name was changed to "顒琰", as a result, the seal glyph of the character "琰" was written in omitting strokes to express taboo.

Serial No. in THX version		TTF Font	Corresp Modern Char.			Refer	to the	e other	versio	on		
00140	琐	琰	琰	孫 20144	陳 	N4688	TCA	秋	華東 王火 01200	北師 王火火 12651	逢甲 工火火 17265	B 上火 00139

- B. **Exact duplicate**: *Shuowen Jiezi* contains characters with identical forms (and similar meanings).
 - (a) When such duplicate characters are all Zhengzhuan, only the character appearing earlier in sequence is encoded.
 - EX: "右"

The glyphs and meanings of the two "右" characters are very similar. TH-00939 is in volume 2, TH-02078 is in volume 3, and TH-00939 is ranked first, so TH-00939 will be encoded.

Serial No. in THX version		TTF Font	Corresp Modern Char.	SW Radical	pronunciation	meaning	note
00939	A D	The state of the s	右	口,又	you4	助也。从口 从又。	encode
02078	all		右	又	you4	手口相助 也。从又从 口。	



- (b) when a group consists of Zhengzhuan and Chongwen with identical forms, only the Zhengzhuan is encoded, while the Chongwen is not.
 - EX: "涶"

TH-00881 is a Chongwen/Variant of TH-00880 with an identical glyph form to TH-07729; although the meanings differ, only TH-07729 will be encoded as it is Zhengzhuan.

Serial No. in THX version	volume	Original Glyph	TTF Font	Corresp Modern Char.	SW Radical	Different Radical	type	meaning	Note
00880	2	壁	蚧	唾			Zhengz huan	口液也。从口 垂聲。	encode
00881	2	灣		唾		水	Variant	唾或从水。	withdraw
07729	11	票	繼	涶	水		Zhengz	河津也。在西 河西。从水坙 聲。	encode

After comparison and organization, a total of 17 characters are not encoded due to identical forms.

C. **The original broken glyphs:** Due to rubbing or other conditions, some glyphs in the original book appear broken or incomplete. These glyphs are corrected based on the character's meaning and references from other versions, with the corrected glyphs used to avoid confusion.

• EX:

Serial No. in THX version	Original Glyph	Meaning/ Note	THX Glyph Font
08767	犅	"从手,叜聲" The shape in the bottom right is incomplete.	省 TH-08767
x380	坊	"从土方聲" [方] should not be separated.	± // TH-X380

- D. **The inconsistent component:** Some glyphs contain inconsistent components. These inconsistencies are restored to original forms through comparison and etymological analysis according to the character's meaning.
 - EX: "卓" and "逴"

卓:《說文·七部》「高也。早、七為草。」

There are 11 characters that have glyphs relevant to the components of "阜", but only "阜" and "逴" have different seal glyph, so they will be modified

to the original glyphs in line with consistency and Shuowen interpretation.

Serial No. in Tenghuaxie version	Original Glyph	TTF Font	Сатаат	SW Radical	Туре
05738	TOP-	<mark>-JW</mark>	中		Zhengzhuan
01302	YM-Y	년 - 원예가	逴	辵	Zhengzhuan
01101	帽	是	趠	走	Zhengzhuan
05332	A SERVICE OF THE PROPERTY OF T	<u>-9073</u>	單	図	Zhengzhuan
05538	118		倬	人	Zhengzhuan
07086	鸠	<u> </u>	焯	火	Zhengzhuan
07567	肾		悼	心	Zhengzhuan
07852	剛	<u>an</u>	淖	水	Zhengzhuan
08321	解	が多く	綽	魚	Zhengzhuan
08617	肾		掉	手	Zhengzhuan
09015	婚		婥	女	Zhengzhuan

E. **Possible duplicate:** Even glyphs that have only subtle differences are worth keeping and are encoded separately to maintain the integrity of the Small Seal script system.



Due to Xu Shen(許慎) clearly stated that Guwen and Zhouwen should not be resembled. TH-06702 is Guwen, TH-06703 is Zhouwen. Both have similar forms, but TH-06703 was replaced with the DYC version to improve the glyphic difference.

Serial No. in THX version	Original Glyph	TTF Font	Corresp Modern Char.	SW Radical	Туре	Note
06701	界	界	馬	馬	Zhengzh uan	
06702	彩	***	影	馬	Variant	
06703	3/	3//	易分	馬	Variant	WG2# N5089



F. **Misprint of the original book:** Some Small Seal script forms in *Shuowen Jiezi* are inconsistent with their explanations. By comparing with other versions, such as DaXu Ben, if confirmed as errors in the THX version, these incorrect forms are modified to align with their meanings.

• EX:

Serial No. in THX version	Original Glyph	TTF Font	Corresp Modern Char.	SW Radical	Тур	Content
00632	り	紫	茨	丱	Zheng zhuan	「從艸次聲」
05767		即	臥	団	Zheng zhuan	原圖誤刻,「从 人、臣,取其伏 也。」
07082	喇	州	煌,煜	火	Zheng zhuan	原圖誤刻,「从火 皂聲」,字樣依陳 本(CCZ)修正

3. Correspondence to the modern CJK characters Principle

A. For characters currently in Unicode encoding, use the clerical script form that matches in both form and meaning as the corresponding modern character. For example, " \overline{h} ".

Serial No.	Serial No. in THX version	TTF	Corresp Modern Char.	SW Radical	Туре
00017	00017	爪	示	示	Zhengzhuan

B. For Zhengzhuan, when there is no Unicode-encoded character that corresponds exactly, the corresponding modern character should be selected based on semantic equivalence. For example, "穰". If the subsequent clerical script form has Unicode encoding, replace it accordingly.

Serial No.	Serial No. in THX version	TTF	Corresp Modern Char.	SW Radical	Туре
00070	00070		禳	示	Zhengzhuan

C. For Guwen or Zhouwen, if there is no corresponding clerical script form exists in the current Unicode set, refer to the corresponding Zhengzhuan character instead.

Serial No.	Serial No. in THX version	TTF	Corresp Modern Char.	SW Radical	Туре
02257	02178	谿	殺	殺	Zhengzhuan
02260	02181	煮	殺	殺	Variant (古文)
03463	03353	%) H	差	左	Zhengzhuan
03464	03354	從	差	左	Variant (籀文)

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摘要

本文件依據 n4688 進行改寫,並參考 Michel 撰寫的 n5306 加以整合,成為完整的論述。本文說明《說文解字》小篆納入國際編碼的背景意義、版本選擇、字形校正原則與編碼排序策略。小篆編碼以藤花榭本(THX)為主,部分藤本字形依「n5189校正原則」進行調整。碼表採多欄並列格式,搭配陳昌治本(CCZ)、小徐本(QJZ)與段注本(DYC)等版本。由於不同版本之間的字形略有差異,為確保編碼對應的一致性與正確性,制定「定序與定序原則」(n5307)。在對應今字方面,亦提出原則以供參照與應用。本項工作不僅為《說文》小篆建立系統性編碼架構,也為後續其他古漢字之編碼,奠定技術基礎與理論依據。

一、將《說文》小篆列入國際編碼的必要性

《說文解字》是中國漢代許慎編著的一部收集秦代小篆的專書。全書收集了小篆正篆 9353 字,異體字(《說文》稱"重文") 1163 字,重文中包括籀文(周代篆文)和古文(戰國時的六國文字)不與小篆相合的字樣。

秦代流行兩種正體字,一種是規範過的小篆,另一種是通常使用的隸書(文字學上稱作秦隸,也稱古隸,以與其後的漢隸有所區別)。有人認為小篆是一種書法字體,這是一種誤解。《說文》小篆是古文字發展中一個歷史階段的字符集,它與甲骨文、金文和戰國文字一樣,與現代楷書不屬於同一個體系,小篆字符有有大量的字形與現代楷書無法對應,能夠對應的字形在形體上也具有獨特的構造;所以,它不能作為現代漢字的一種字體而附屬於楷書,必須獨自佔有一個編碼區域。

《說文》小篆在漢字發展歷史上具有重要的作用·對古今文字的研究和整理更具有獨特的價值:

- (一) 秦代小篆是古文字發展的最後階段,它囊括了自甲骨文以來先秦古文字的 全部構造模式,與此前古文字的主要部件皆有聯繫,所以,它是古文字整 理與考據必須參照的字符集。
- (二) 《說文》小篆的字形與周代經典文獻密切相關,均可用經典文獻的意義來解釋構形理據,集中顯示了表意漢字的特點,也涵蓋了隸書以後今文字的字理。當前的漢字教學,都根據《說文》的講解來解讀漢字。

- (三)《說文》小篆經過嚴格整理,去除了冗餘的字形,形成了一個完整的構形 系統,並將這些文字字符分屬在 540 個部首中,按小類編排了字符的順 序。當前古文字整理,都以《說文》的部首和字序為序。
- (四)《說文》小篆歸納概括出的 540 部首,統領了漢字全部的形與義,被稱為 具有理論價值的結構部首,之後的有些部首是在 540 部首基礎上簡化合併 而成的,這種合併忽略了表意漢字形義統一的特點,僅僅適合查檢使用, 在理論上是有缺欠的,540 部首才是更為完善的部首系統。

二、將《說文》小篆列入國際編碼的整理資源

小篆編碼共有 4 個《說文》版本來源,以 4 欄(four-columns)排列的形式呈現。編碼基準以藤花榭本為主,另外三個版本的小篆字形皆依藤本的順序進行排列。以下簡單介紹所採用的四種《說文》版本:

(一) 額勒布藤花榭本(THX 欄)

宋代徐鉉奉宫廷帝王之命,全面整理《說文》,恢復了它的本來面貌,得到了它的原初字形,徐鉉整理過的《說文解字》,稱作「大徐本」。這一版本為公認的規範版本,小篆編碼的字形與次序,首先當以此為據。

大徐本目前有三種比較常見的版本——額勒布藤花榭本、孫星衍平津館本,以及根據孫星衍平津館本修改的陳昌治單行本。藤花榭本與平津館本均依據北宋本刊刻,但平津館本實際上多據顧千里本小篆進行過刪改,不如藤花榭本更忠實于原本。根據目前情況,以藤花榭本作為底本,最為妥靠。

(二) 陳昌治本(CCZ 欄)

陳昌治本是根據孫星衍平津館本去修改《說文》的排列形式,讓《說文》變得較容易閱讀,因此也獲得研究者的重視,成為研究《說文》的重要依據。

(三) 小徐本(QJZ 欄)

徐鍇撰著的小徐本也有多種版本,公認以清道光年間祁嶲藻刻本為最好,因此以這個版本作為小徐本編碼的依據。

《說文》成書於東漢、經過漫長時間的流傳、真相有被泯滅的地方、如唐人李

陽冰,改動了《說文》的篆形與許慎的說解。南唐徐鍇是在李陽冰之後第一位對《說文解字》進行校訂與註釋,並駁斥李陽冰的改動;徐鍇整理的《說文繫傳》稱作「小徐本」。(徐鉉為兄,徐鍇為弟,但「小徐本」成書於南唐(小徐本成書年代約為 AD960~970),早於成書於北宋的「大徐本」(大徐本成書年代為 AD986))。

(四)段注本(DYC 欄)

清代《說文》學的權威段玉裁,校核大徐本與小徐本,並根據《說文解字》自身的體例,又改正了一部分字形,調整了一部分編排次序,作出了《說文解字注》(簡稱《段注》),其中的成果,為現代人學習《說文》的重要依據。《段注》中與大徐本有區別的信息,需要在大徐本基礎上,加以保存。

三、整理條例 Rules and Principles

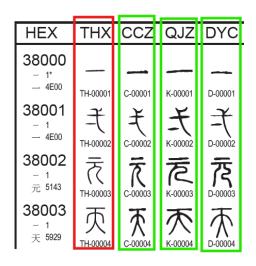
(一) 定字與定序原則

小篆編碼以 4 種版本、多欄並列方式呈現。排序以藤花榭本部首次序與部首內字符編排次序為主,但是各個版本之間的小篆字形有些差異,因此,在進行排序時,還要考量不同版本之間的字形是否認同;認同則可並列,若不認同,則需另外單獨編碼。有關不同版本間的對應原則,完整說明請見 n5307,摘要如下:

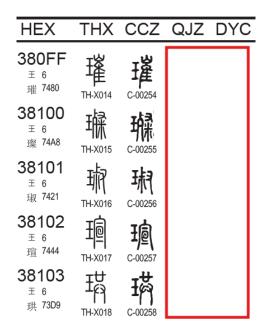
1. 通則:

A. 版本關係:不同版本《說文》的排序、字形及說解基本一致, 藤花榭本與 陳昌治本屬「大徐本」, 內容大致一致。小徐本與段注本在部分字上與大 徐本不同,可能出現差異。

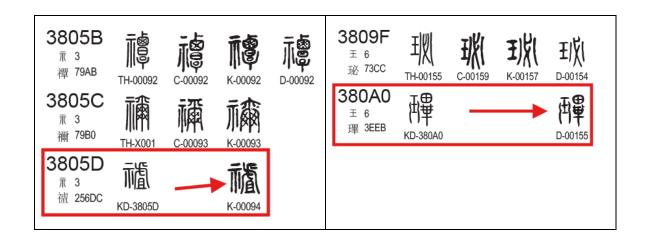
EX1:以藤本(THX)為主,其他版本依序排列。



EX2:藤花榭本與陳昌治本屬「大徐本」,內容大致一致。 小徐本與段注本未收錄「新附字」。

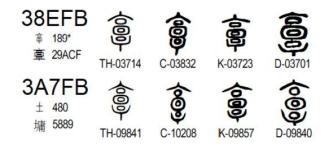


- B. 編碼順序:依藤花榭本中出現的順序排列。無對應者,依序補入。
- 小篆字形「禮」字僅見小徐本於「禰」字之後收錄,「琿」字僅見段注本於「珌」字之收錄,因此於 THX 欄位下分別增加字型 KD-3805D 和 KD-380A0,以作為排序對應的基準。



C. **形制限制**:僅比較同一書寫形制(如篆文、古文、籀文),不同形制視為不同字。

EX: U+38EFB 與 U+3A7FB 字形極為近似,但是,因為 U+38EFB 為「古文」, U+3A7FB 為正篆字形,形制不同,所以不因為字形近似而做調整。



D. **同碼位一致性原則**: 同一碼位字形與說解須一致·若有衝突則**以字形為主**。

EX:若有衝突則以字形為主;即使字義不同但字形相同,仍編碼在一起。



- 2.認同原則。凡符合下述情形則予以認同,不再單獨編碼:
 - A. 避諱字。

如 U+38016 的 C-00023、K-00022、D-00023,皆為認同
Code chart Disunified/Unified



- B. 篆形錯誤(字形與說解不一致、構件不符系統性)。
 - (a) 字形與說解不一致。

例:

Code char	t		Disunified/ Unified		
38CD3	斯 [H-03177	介 C-03282	答 K-03185	1 月 1 1 1	K:Unified 原則 2.(2)

K-03185,在《小徐本(K)》的說解是「从竹,『前』聲」,而字形卻是「从竹『歬』聲」。

(b) 構件不符合系統一致性。

例:

Code ch	art		Disunified/ Unified	
383D9 □ 22 噦 5666	TH-00952	C-00985	羰	D:Unified 原則 2.(2)

在《段注(D)》的「歲」字部件都是 **以**,但 D-00947 為 **以**,缺一横 筆,所以 D-00947 有誤,可認同。

C. 系統性部件改形。

如《小徐本(K)》、《段注本(D)》的「門」。

Code	chart				Disunified/ Unified
3A20D	門	申	Бą	БĄ	KD: Unified
門 9580	TH-08382	C-08700	K-08395	D-08371	原則 2.(3)
3A20F	單	草	圍	單	KD: Unified
間 95C8	「牛 し TH-08384	八年 C-08702	/年\ K-08397	D-08373	原則 2.(3)

D. 說解相同,字形僅有細微差異的異寫字,如「臧」各版小篆形。 例:



E. 形聲字結構變化 (左右、上下位置互換)

例:

	(Disunified/ Unified			
38AA2 景 119 鷚 9DDA	TH-02633	C-02723	K-02641	D-02618	K-02641: Unified
39A21	TH-06450	C-06678	K-06461	分配公 (2006年400 D-064400	K-02641: Unified

F.古文、籀文因沒有說解,較難以確認字形正確性時,維持認同,不另編新碼。例如:

	(Code c	Disunified/ Unified		
38640 # 45 # 569A	727 TH-01535	C-01600	K-01542	Y2Y D-01524	C-01600: Unified
39EF8 《 410 漢 6F22	派 TH-07626	C-07913	(() K-07641	I) D-07614	C-07913: Unified

3.不認同原則。凡符合下述情形則分開編碼:

A. 音義相同但部件有差異 (如"藍"和"灆"字)。

Code chart	38297 # 12 蓋 862B TH-00644 38298 # 12 蓋 862B KD-38298	C-00662 K-00643	D-00640: Disunified Principle 3.(1)
Explanation	瓜菹也。从艸, <mark>監聲</mark> 。	瓜菹也。从艸。 <mark>濫聲</mark> 。 段玉裁: 各本篆作藍。解誤作監 聲。今依廣韵、集韵訂。 魯甘切。八部。	

B.合體字構件與數量相同但位置不同。

	C	Code ch	art		Disunified/ Unified
386B3 ^{豪 56} 	### ### TH-01650	C-01715	K-01653	호텔 B- 01636	K-01653、D-01636:Dsunified 原則 3.(2)

C. 獨體字音義相同但筆畫或筆畫關係不同(如相交、相離)。



(二)藤本字形校正原則:

取自藤花榭本之字,其字形須宗於該本原形,惟整理藤花榭本小篆字形的過程中,學者陸續發現小篆字形的問題。為使藤本小篆字形具有系統性與一致性,遂進行相應修正。根據字形問題的性質,可歸納出 6 種校正原則,完整說明請參見 <u>n5189</u>。摘要如下:

1.避諱字(Taboo glyphs):

某些被視為禁忌的字形(如與帝王名字相關的字形)會被修改或省略筆畫。

EX:如「琰」 聞,埮。

藤本小	原圖	字型	對應字	他本比對							
篆序號											
00140	琐	琰	琰	孫 陳 N4688 TCA 毛4 華東 北師 逢甲 段 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1							

因嘉慶皇帝名「永琰」,後來改名「顒琰」,所以「琰」字篆形就以缺筆來表示 避諱。

2. 構形相同的字(Exact duplicate):

Serial No. in THX version	Original Glyph	TTF Font	Corresp Modern Char.	SW Radical	meaning	note
00939	A D	A S	右	口,又	助也。从口 从又。	編碼 encode

02078	3	右	又	手口相助 也。从又从 口。	
-------	---	---	---	---------------------	--

兩個「右」字的字形、字義都非常相近,TH-00939 在卷三,TH-02078 在卷三,TH-00939 排序在前,所以將 TH-00939 進行編碼。

(2) 如是正篆(Zhengzhuan)與重文(Chongwen/Variant)的字形相同,則只編碼正篆(Zhengzhuan),重文(Chongwen/Variant)不編碼。如「涶」字:

Serial No. in THX version	Original Glyph	TTF Font	Corresp Modern Char.	SW Radical	type	meaning	Note
07729	繼	繼	涶	水	Zhengz huan	河津也。在西 河西。从水墾 聲。	編碼 encode
00880	鲻	鑅	唾		Zhengz huan	口液也。从口 垂聲。	編碼 encode
00881	灣		唾		Variant	唾或从水。	withdra w

TH-07729 在卷十一·是正篆(Zhengzhuan)·《說文》釋義為「河津」·TH-00881 在卷二·是 TH-00880 的重文(Chongwen/Variant)·《說文》釋義為「口液」· 因此這兩字僅有小篆字形相同·但意義不同·而 TH-07729 為正篆·以正篆進行編碼。

因此,在經過整理比對之後,總共有 17 字因為構形相同的原故,而不予編碼。

3.殘斷字形(The original broken glyphs):

由於拓印或其他原因,原書中的某些字形出現殘缺。這些字形會根據字義和其他版本的參考進行更正,並使用更正後的字形來避免混淆。

Serial No. in THX version	Original Glyph	Meaning/ Note	THX Glyph Font
08767	啊	"从手,叜聲" The shape in the bottom right is incomplete.	東京 TH-08767

x380 "从土方聲" [方] should not be separated. TH-X380

4.不一致之部件(The inconsistent component):

某些字形出現不一致的部件,這些不一致會通過比對和字理恢復到原始字形。

如「卓」與「逴」:

Serial No. in THX version	Original Glyph 原圖	TTF Font 字形	Corresp Modern Char. 今字	SW Radical 正篆部首	Type 類型
05738	THE PER	مهها	卓	上	Zhengzhuan
01302	AND LOCAL	는 100년 - 100년	逴	辵	Zhengzhuan

說明:

卓:《說文・七部》「高也。早、七為草。」

早:《說文·日部》「晨也,从日在『甲』上。」

「甲」字篆形為「<u></u>」,上方有一短豎筆。

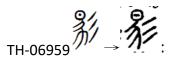
「卓」字部件相關字形有 11 字,僅「卓」「逴」篆形不同,依字理與一致性 恢復原形。

01101	地	ŲS.	趠	走	Zhengzhuan
05332	EBG	-00%	罩	M	Zhengzhuan
05538	18		倬	人	Zhengzhuan
07086	鸠	順	焯	火	Zhengzhuan
07567	幅		悼	心	Zhengzhuan
07852	剛		淖	水	Zhengzhuan
08321	留	な色中	綽	魚	Zhengzhuan

08617		<u> </u>	掉	手	Zhengzhuan
09015	1		婥	女	Zhengzhuan

5.近似字處理(Handling of possible duplicate):

即使字形差異非常微小,但仍值得保留這些字形,並將其單獨編碼。這是為了保持小篆字形系統的完整性。



Serial No. in THX version	Original Glyph 原圖	TTF Font 字型	Corresp Modern Char. 今字	SW Radical 正篆部首	Type	Note
06701	界	界	馬	馬	Zhengzh uan	
06702	彩	彩	影	馬	Variant	
06703	3/1	3/	影	馬	Variant	參閱 WG2# N5089

為「古文」, 為「籀文」。兩字字形相似,為保留系統,經比對不同版本之後,「籀文」字形以差異較大的段注本字形代替。

孫	陳	藤本	毛4	毛5	華東	北師	逢甲	段	述	汪	椰
馬	焦	累	累	累	易	易	馬	更	馬	易	累
08957	08957	08957	08955	08980	07908	13585	28881	08688	08714	08477	08712
8%	2/	3/	3/	31	31	8/	31/	8	裂	3/	彩
08058	200000	06958	08958	08981	07907	13595	37018	W	08715	08478	08713
8/	84	31,	8/	3/1	31	8/	21	2/	3/	别	8/1
1	M	/))/	00057	M/	/\frac{1}{2008}	13840	77	NAMES .	31	00470	08714
	易彩彩	易 彩	易 第 影 彩 彩	易 第 系 系 系 系 系 系 系 系 系 系 系 系 系 系 系 系 系 系	馬馬馬馬馬馬 彩彩彩彩彩	馬馬馬馬馬馬馬馬 ※ ※ ※ ※ ※ ※ ※ ※ ※ ※ ※ ※ ※ ※ ※	馬馬馬馬馬馬馬馬 彩彩彩 ※ 彩彩。	馬馬馬馬馬馬馬 彩彩彩彩彩彩彩彩彩彩彩彩彩彩彩彩彩彩彩彩彩彩彩彩彩彩彩彩彩彩	馬馬馬馬馬馬馬馬 彩彩彩彩彩彩彩彩彩彩彩彩彩彩彩彩彩彩彩彩彩彩彩彩彩彩彩彩彩	馬馬馬馬馬馬馬馬馬馬馬 彩彩彩彩彩彩彩彩彩彩彩彩彩彩彩彩彩彩彩彩彩彩彩彩彩彩	易易易易易易易易易易多多多多多多多多多多多多多多多多多多多多多多多多多多多多

6. 原書誤刻(Etymological errors in the original book):

《說文解字》中有些小篆字形的字形與解釋不一致,經與其他版本比對後,如果確認是藤花榭本的誤刻,就會這些字形將進行修正,以符合字義。

例如:

Serial No. in THX version	Original Glyph	TTF Font	Corresp Modern Char.	SW Radical	Тур	Content
00632	業		蓘	艸	Zheng zhuan	「從艸次聲」
05767		图	臥	毋	Zheng zhuan	原圖誤刻,「从 人、臣,取其伏 也。」
07082	喇	州	煌,煜	火	Zheng zhuan	原圖誤刻,「从火 皂聲」,字樣依陳 本(CCZ)修正

(三)對應今字原則:

1.以目前 Unicode 編碼字中,與之形、義相符的隸書形為對應今字。如「示」。

Serial No.	Serial No. in THX version	TTF	Corresp Modern Char.	SW Radical	Туре	
00017	00017	氘	示	示	Zhengzhuan	

2.若是正篆,沒有符合完全一致的 Unicode 編碼字,則依與義相符的字為對應今字,如「禳」。後續隸定形若有 unicode 編碼,再予以替換。

Serial No.	Serial No. in THX version	TTF	Corresp Modern Char.	SW Radical	Туре
00070	00070		禳	示	Zhengzhuan

3.對於古文/籀文,若在目前 Unicode 編碼字中沒有與之對應的隸定形體,先

依正篆對應字。後續隸定形若有 unicode 編碼,再予以替換。

Serial No.	Serial No. in Tenghuaxie version	TTF	Corresp Modern Char.	SW Radical	Туре
02257	02178	谿	殺	郊	Zhengzhuan
02260	02181	T	殺	殺	Variant (古文)
03463	03353	MH.	差	左	Zhengzhuan
03464	03354	% 但	差	左	Variant (籀文)

(End of document)