Universal Multiple-Octet Coded Character Set
International Organization for Standardization
Международная организация по стандартизации
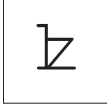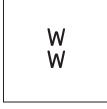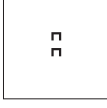
Doc Type:	**Working Group Document**
Title:	**Additional IPA "disturbed speech" characters for the UCS**
Source:	**Michael Everson**
Status:	**Working Document**
Date:	**1998-09-08**
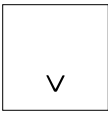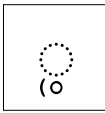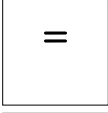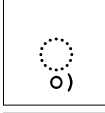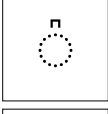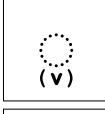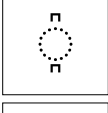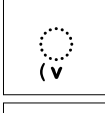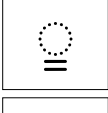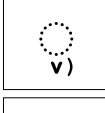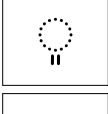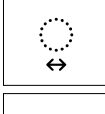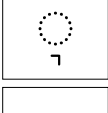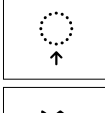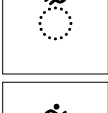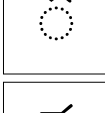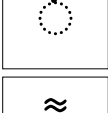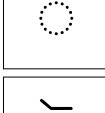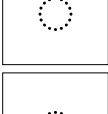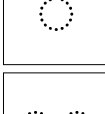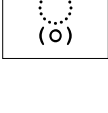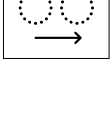
This document proposes several IPA characters for inclusion in the UCS, and discusses the rationale for their inclusion. Six of these characters have been proposed previously, four of them in N1742, and three of them from N1746. Their presentation here is in response to review of those two proposals by NCITS/L2 and the UTC.

These characters are new characters, specified in "the extIPA Chart" (*Journal of the International Phonetic Association* (1994) 24.2, 95–98). These signs are used to describe disordered speech. They had been under development since 1989 and their publication in *JIPA* 24.2 marked "the official adoption of the extIPA symbols by the International Clinical Phonetics and Linguistics Association (ICPLA)".

The last three characters from N1746 are general-use tone marking tonal contours, not specific to disordered speech. They are found in *Journal of the International Phonetic Association* (1995) 25.1, p. 21 and centrefold chart.

The characters proposed to be added here are given below, with proposed code positions. The proposal summary form is appended thereafter.

02A9 LATIN SMALL LETTER FENG
02AA LATIN SMALL LETTER LES
02AB LATIN SMALL LETTER LEZ
02AC LATIN LETTER BILABIAL PERCUSSIVE
02AD MODIFIER LETTER BIDENTAL PERCUSSIVE
02EA MODIFIER LETTER VOICING
02EB MODIFIER LETTER UNASPIRATED
0346 COMBINING DENTOLABIAL
0347 COMBINING INTERDENTAL
0348 COMBINING ALVEOLAR
0349 COMBINING STRONG ARTICULATION
034A COMBINING WEAK ARTICULATION
034B COMBINING DENASALIZATION
034C COMBINING NASAL ESCAPE
034D COMBINING VELOPHARYNGEAL FRICTION
034E COMBINING PARTIAL DEVOICING
034F COMBINING INITIAL PARTIAL DEVOICING
0350 COMBINING FINAL PARTIAL DEVOICING
0351 COMBINING PARTIAL VOICING
0352 COMBINING INITIAL PARTIAL VOICING
0353 COMBINING FINAL PARTIAL VOICING
0354 COMBINING LABIAL SPREADING
0355 COMBINING WHISTLED ARTICULATION
0356 COMBINING CIRCUMFLEX GRAVE (high rising contour)
0357 COMBINING MACRON ACUTE (low rising contour)
0358 COMBINING GRAVE MACRON (rising falling contour)
0362 COMBINING SLIDING ARTICULATION

02A9:	
02AA:	
02AB:	
02AC:	
02AD:	

Code	Glyph		Code	Glyph
02EA:	∨		034F:	(o
02EB:	=		0350:	o)
0346:	(combining)		0351:	(v)
0347:	(combining)		0352:	(v
0348:	(combining)		0353:	v)
0349:	(combining)		0354:	↔
034A:	(combining)		0355:	↑
034B:	(combining)		0356:	(combining)
034C:	(combining)		0357:	(combining)
034D:	≈		0358:	(combining)
034E:	(o)		0362:	⟶

A. Administrative

1. Title
Additional IPA "disturbed speech" characters for the UCS

2. Requester's name
Michael Everson, EGT (WG2 member for Ireland)

3. Requester type
Expert contribution

4. Submission date
1998-09-08

5. Requester's reference

6a. Completion
This is a complete proposal.

6b. More information to be provided?
No

B. Technical -- General

1a. New script? Name?
No.
1b. Addition of characters to existing block? Name?
Yes. IPA (International Phonetic Alphabet) Extensions, Spacing Modifier Letters, and Combining Diacritical Marks.
2. Number of characters
27
3. Proposed category
Category A
4. Proposed level of implementation and rationale
Level 3. IPA requires use of combining characters
5a. Character names included in proposal?
Yes
5b. Character names in accordance with guidelines?
Yes
5c. Character shapes reviewable?
Yes
6a. Who will provide computerized font?
Michael Everson, Everson Gunn Teoranta
6b. Font currently available?
Yes
6c. Font format?
TrueType
7a. Are references (to other character sets, dictionaries, descriptive texts, etc.) provided?
Yes. See *JIPA* (1994) 24.2 and *JIPA* (1995) 25.1.
7b. Are published examples (such as samples from newspapers, magazines, or other sources) of use of proposed characters attached?
No.
8. Does the proposal address other aspects of character data processing?
No.

C. Technical -- Justification

1. Contact with the user community?
Yes: International Phonetic Association.
2. Information on the user community?
Linguists, speech pathologists, and publishers
3a. The context of use for the proposed characters?
Phonetic representations
3b. Reference
See above
4a. Proposed characters in current use?
Yes
4b. Where?
In many publications
5a. Characters should be encoded entirely in BMP?
Yes.
5b. Rationale

Contemporary use and keeping them with the other IPA characters.

6. Should characters be kept in a continuous range?
No.

7a. Can the characters be considered a presentation form of an existing character or character sequence?
No.

7b. Where?

7c. Reference

8a. Can any of the characters be considered to be similar (in appearance or function) to an existing character?
COMBINING ALVEOLAR looks like COMBINING DOUBLE LOW UNDERLINE but the latter connects on both sides. COMBINING VELOPHARYNGEAL FRICTION looks like two stacked COMBINING TILDEs but has a unique meaning which is not nasalization + nasalization. COMBINING INTERDENTAL looks like COMBINING DENTOLABIAL + COMBINING BRIDGE BELOW but since one is above and one is below spelling ambiguity could occur if this c character was unified with them. The partial devoicing and partial voicing characters can't be decomposed because they stack horizontally rather than vertically.

8b. Where?

8c. Reference

9a. Combining characters or use of composite sequences included?
Yes

9b. List of composite sequences and their corresponding glyph images provided?
No. The combining characters can be freely combined with base forms.

10. Characters with any special properties such as control function, etc. included?
No

D. SC2/WG2 Administrative

To be completed by SC2/WG2

1. Relevant SC 2/WG 2 document numbers:

2. Status (list of meeting number and corresponding action or disposition)

3. Additional contact to user communities, liaison organizations etc.

4. Assigned category and assigned priority/time frame

Other Comments