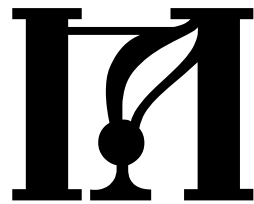


Outline

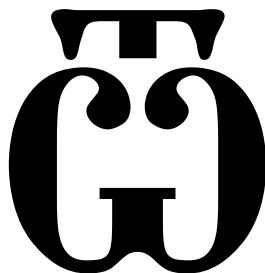
0. Introduction
1. OCS - The Situation
2. Font Technology
3. OCS Fonts on Today's PCs
 - 3.1. Encoding Strategies
 - 3.2 Character Design
 - 3.3 Diacritics
 - 3.4 Superscripts
4. The Future
 - 4.1. Part I: Encoding
 - 4.2. Part II: Technology
5. The User
6. Data Exchange
7. Conclusion

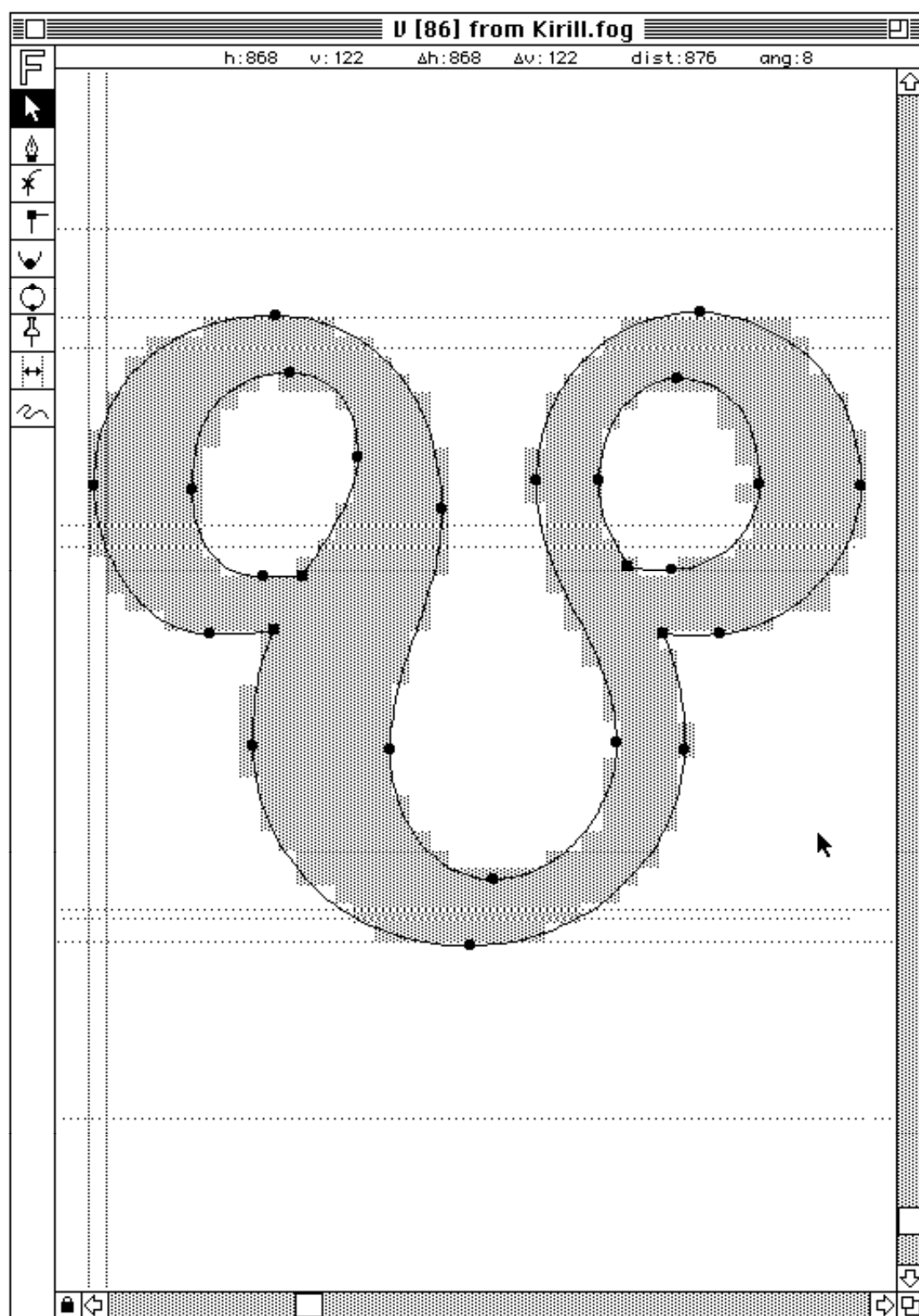
- АБВАЖабгдѵжѣѡѧ á`à
- ꝀꝂꝃꝄꝅꝆꝇꝈꝉ Ꝑꝑ ꝒꝓꝔ ꝕꝖꝗ
- A B V G D E Z I J K L M N O P Q
- ᲀᲂᲃᲄᲅᲆᲇᲈᲉᲊ᲋᲌᲍᲎᲏ᲐᲑᲒᲓᲔᲕᲖᲗᲘᲙᲚᲛᲜᲝᲞᲟᲠᲡᲢᲣᲤᲥᲦᲧᲨᲩᲪᲫᲬᲭᲮᲯᲰᲱᲲᲳᲴᲵᲶᲷᲸᲹᲺ᲻᲼ᲽᲾᲿ

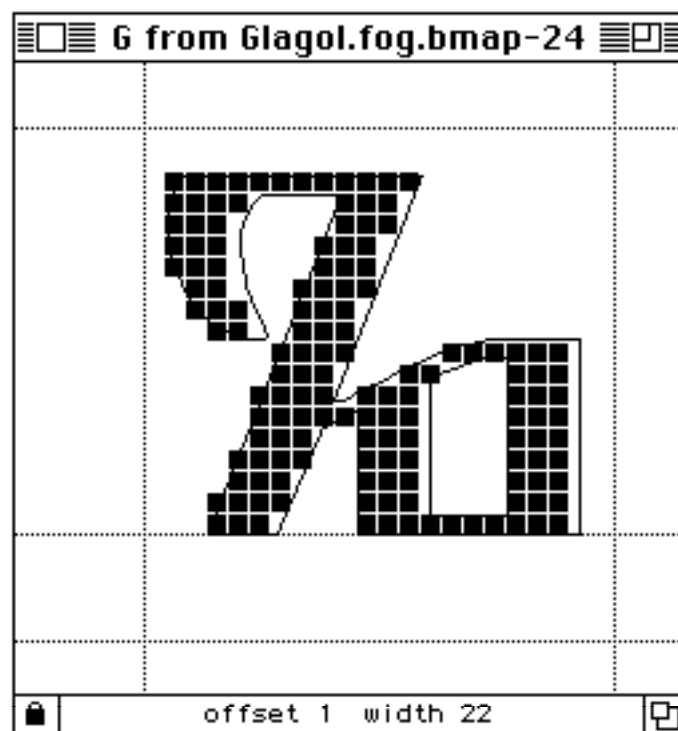
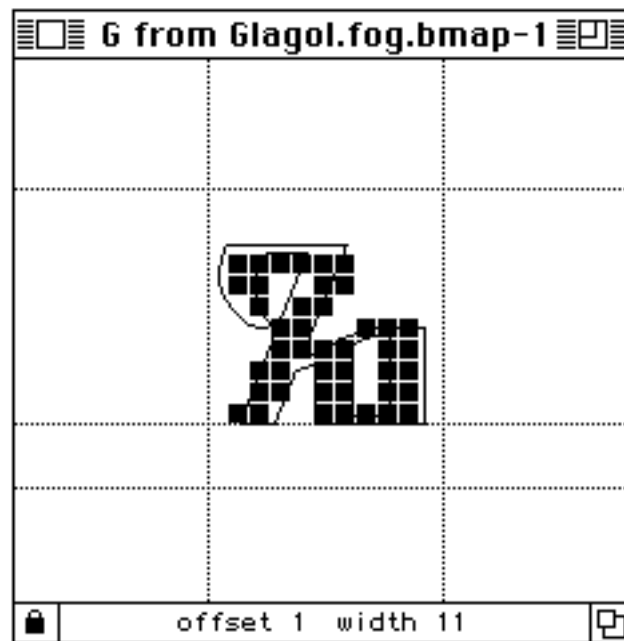


OCS – The Situation

- No normative alphabet/orthography Ѡ, ѡт
- Graphemes and allographs ч/ѣ, ю/ѳ Ѡ/ѡ/Ѣ
- Many diacritics ѧ ѧ́ ѧ̃ ѧ̈ ѧ̇ ѧ̆ ѧ̅
- Superscript alphabet ѧ^x
- Many ligatures ѧ ꙗ ꙑ Ꙓ

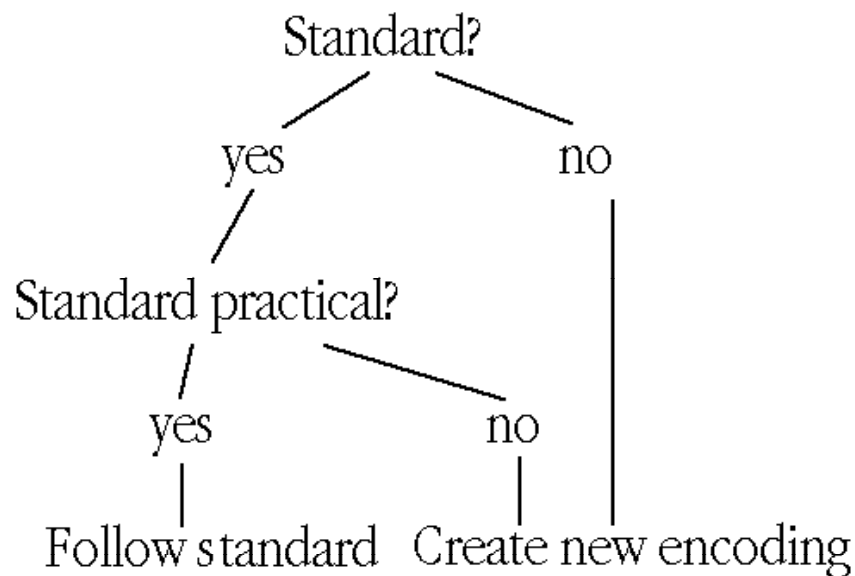






Method.fog															
☐ Key ☒ Dec ☐ Hex ☐ Oct ☐ Width ☐ Tint ☐ Weight ☐ Char															
32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47
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48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63
⊙	•	:	⋄	⋄	⋄	"	"	^	'	•	;	<	=	'	?
64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79
	А	Б	Ц	Д	Е	Ф	Г	Һ	И	З	К	Л	М	Н	О
80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95
П	Ѕ	Р	Г	Т	У	В	Ц	Х	Ы	З	[	~	]	~	—
96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111
Ь	А	Б	Ц	Д	Е	Ф	Г	Һ	И	З	К	Л	М	Н	О
112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127
п	ѕ	р	с	т	у	в	ц	х	ы	з	┌		┐	н	
128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143
Я	А	Ч		~	Ю	Ю	А	А	А	Я	А	А	Ч	é	è
144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159
Е	Ә	І	Й	І	Ї	П	О	О	О	К	Ж	Ѓ	Ѓ	У	Ю
160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175
Ѡ	ѡ	Ѣ	ѣ	Ѥ	ѥ	Ѧ	ѧ	Ѩ	ѩ	Ѫ	ѫ	Ѭ	ѭ	Ѯ	ѯ
176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191
Ѱ	ѱ	Ѳ	ѳ	Ѵ	ѵ	Ѷ	ѷ	Ѹ	ѹ	Ѻ	ѻ	Ѽ	ѽ	Ѿ	ѿ
192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207
Ѵ	•	Ѧ	ѵ	ѥ	ѧ		К	Ю	—		Ѫ	~	~	Ѯ	ѯ
208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223
—	—	“	”	`	´	~	Ѵ	ы	Ы	І	У	~	Н	Ж	Л
224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239
Ы	•	ш	Ѧ	Ѵ		~	Ѓ	“	~	Ш	Ѧ	Ѧ			“
240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255
—	О	У	І	Ѓ	З	~	~	~	~	•	'	~	Ѧ	•	Ж

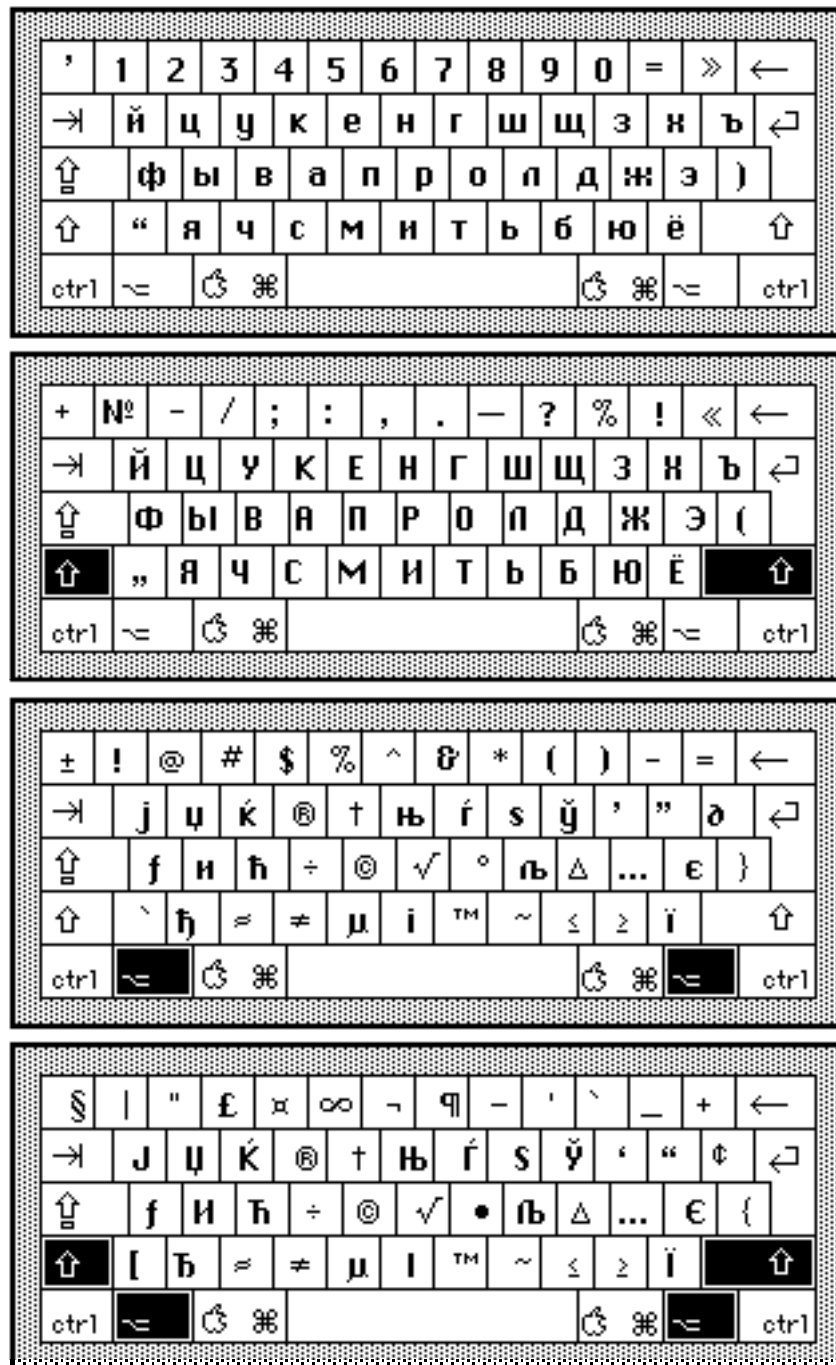
Encoding Strategies



- Vowel on V, cons. on C: **O > 0, P > Π**
- Character pairs **Œ œ > Ъ ѡ**
- Basic ABC = Lower ASCII **ЃБВГДЄ**
- Phonetic/graphic similarity **Z > 3**
- Local keyboard driver **Ä, Ü > Я, Ю**

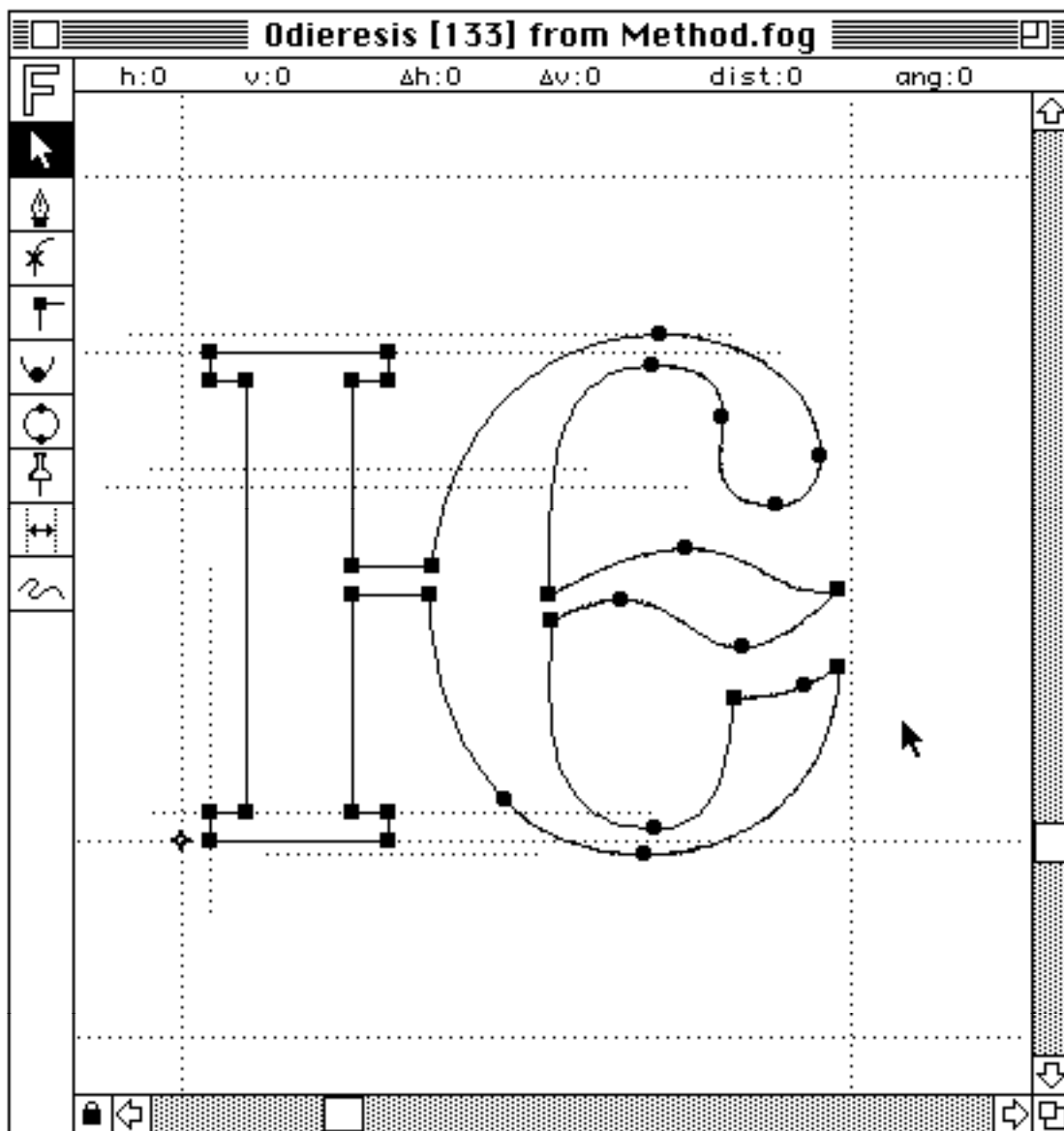
Œ

Macintosh Keyboard



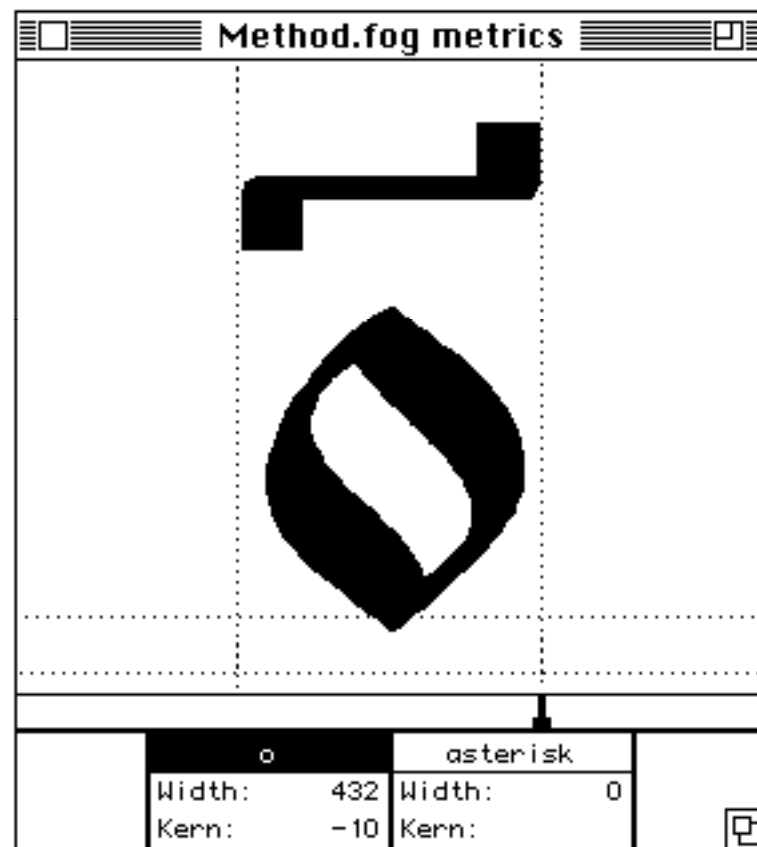
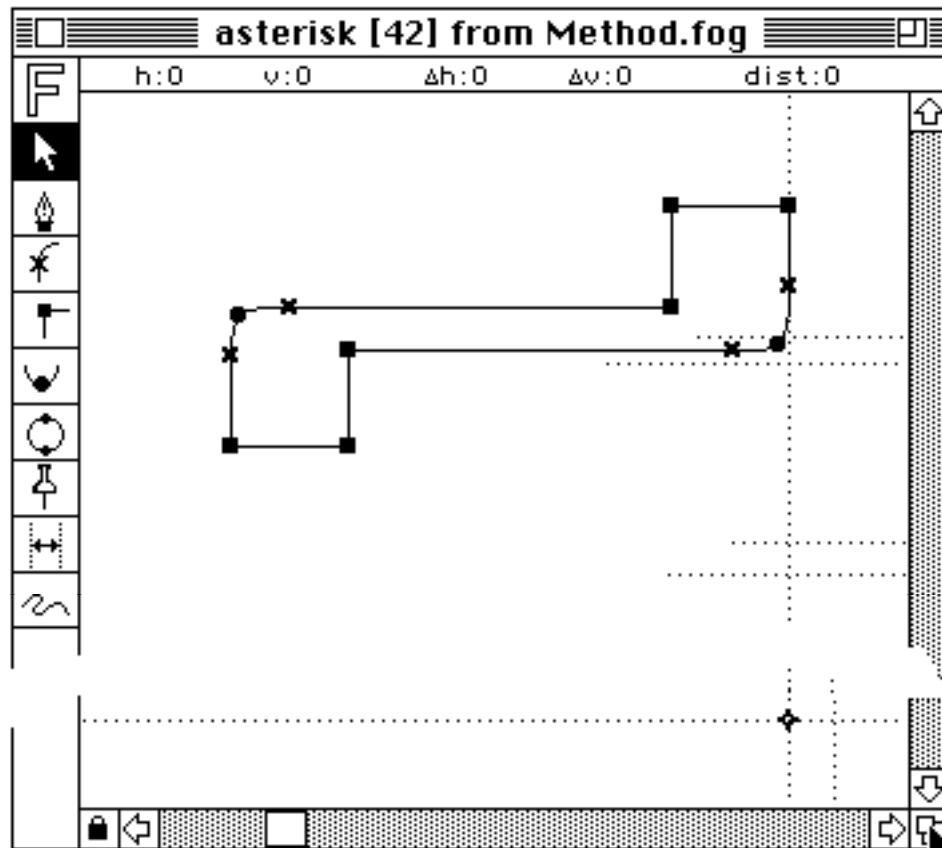
(Ukrainian Mac KB)

Character Outlines



Œ

Diacritics, “Flying Accents”



Superscripts

what you enter >

what you see

gpS[^]' >

ГПЪ

srDce >

срѣ

Х
И

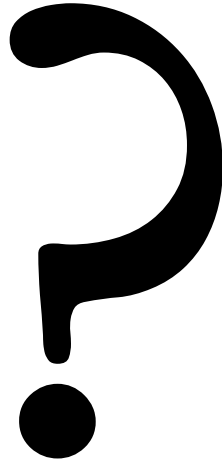
Unicode

- New system software versions
 - New application software versions
 - New fonts
 - New, powerful PCs
-
- Technology for the next century

QuickDraw GX

- Automatic lig., allographs, SMALL CAPS
 - Arabic
-
- Slow acceptance by users
 - Slow support by software vendors
 - Not a cross-platform technology
 - No font editors
-
- Built into “Copland” (Mac OS 1996)

The User



- Convenient
- For today's PCs

Data Exchange



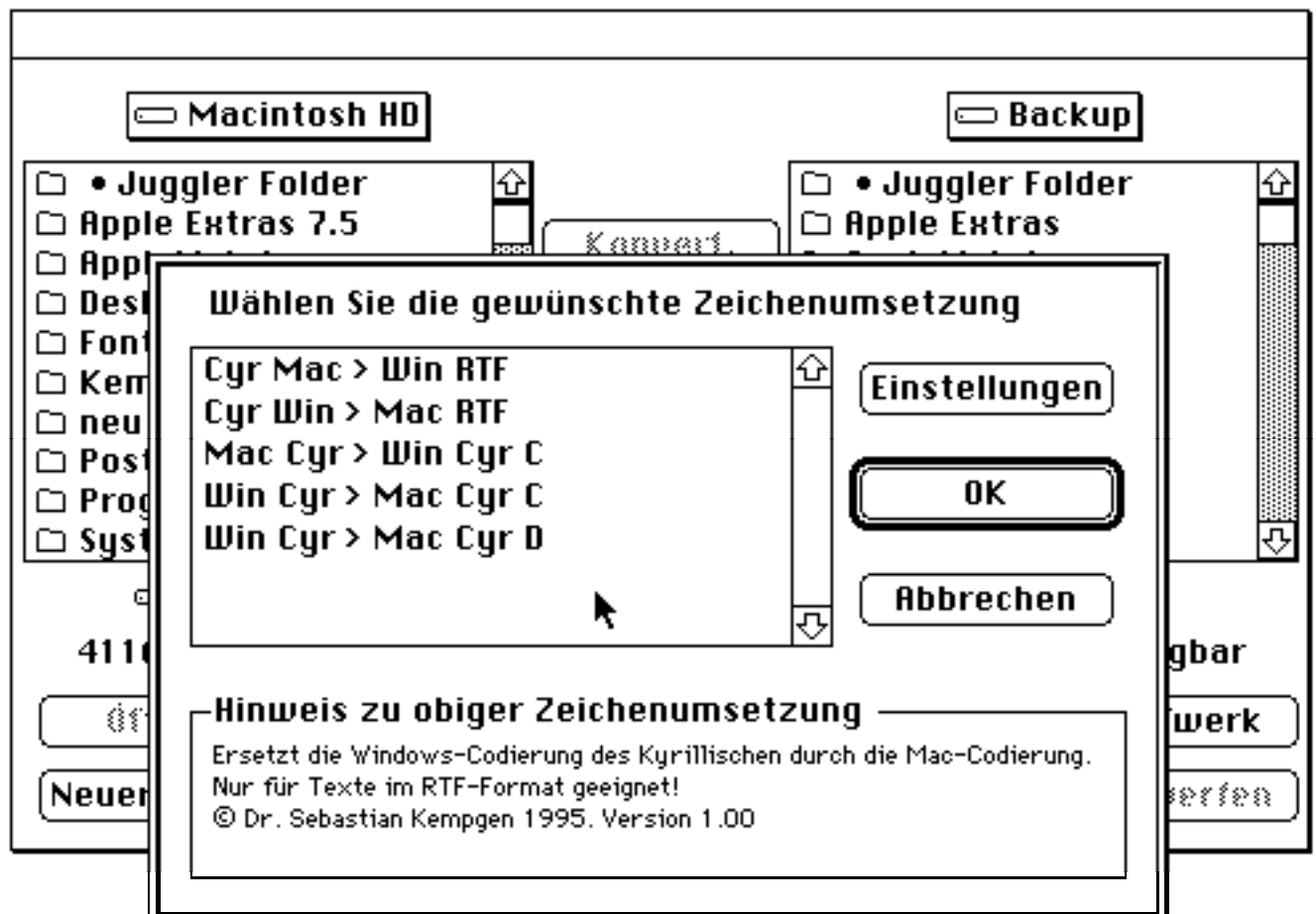
PC Exchange



Apple File Exchange



Mac <> Win Cyrillic Konv.



Conclusion

- Platform-dependent standards
- Mac, Windows
- Utilities for data exchange

