
Jura

Redesign from scratch

Pros

Extensive language coverage:

- Wide Latin support
- Vietnamese
- Cyrillic
- Greek
- Kayah Li (Tibetan)

Popular and Trendy Eurostile design

- usable workhorse font for text

Author is active and helping in development.

Problems

The four weights of Jura were developed unsystematically. The Light style was designed first, and other weights were added later using an offset filter, instead of proper interpolation. As a result letter proportions vary heavily across styles. The extreme Light and SemiBold masters are incompatible. Making changes in the existing source framework is ineffective, and time-draining.

Problems in design:

- inconsistency of proportions
 - low aesthetic and technical level
 - limited scope of weights [bolder styles needed]
 - Cyrillic shapes need redrawing
-

z o m n

a o a o

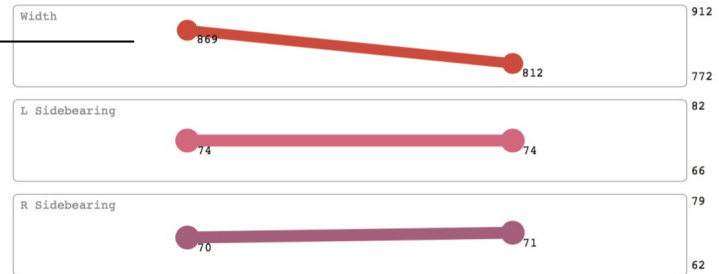
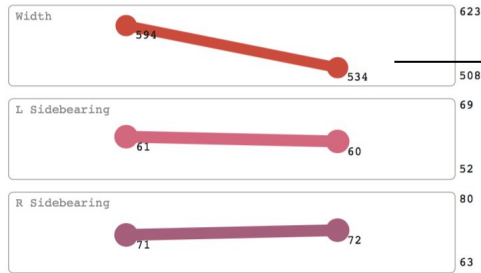
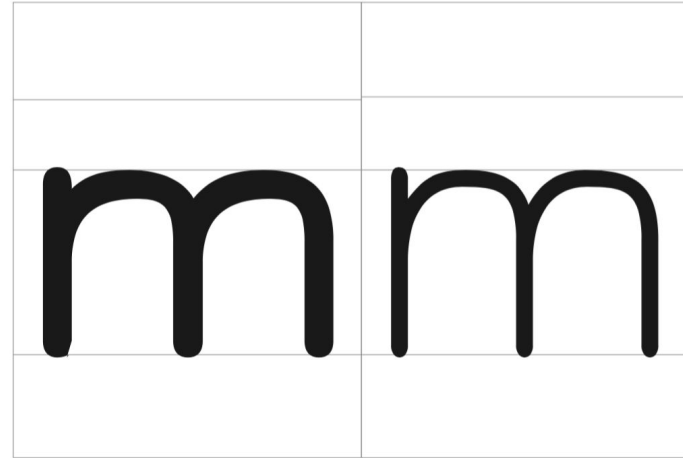
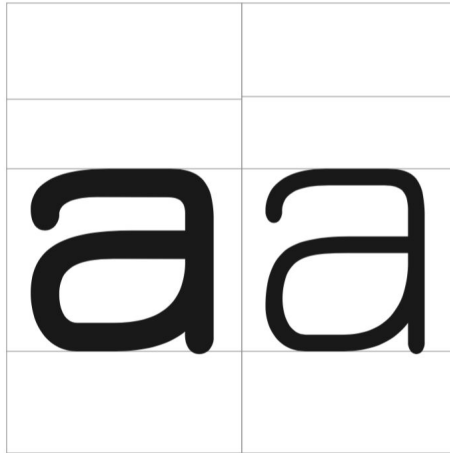
Comparing weights. Cyan=Light(300), Magenta=SemiBold (600)

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Inconsistent proportions across weights

kgreenlandic	Lacute	lacute	Lcommaaccent	lcommaaccent	Lcaron	lcaron	Lslash	lslash	Nacute	nacute	Ncommaaccent	ncommaaccent	Ncaron	ncaron	Eng
	Í	í	Ĺ	ĺ	Ľ	ľ	Ł	ł	Ń	ń	Ń	ń	Ň	ň	Ŋ
eng	Omacron	omacron	Ohungarumlaut	ohungarumlaut	OE	oe	Racute	racute	Rcommaaccent	rcommaaccent	Rcaron	rcaron	Sacute	sacute	Scircumflex
	Ō	ō	Ő	ő	Œ	œ	Ŕ	ŕ	Ř	ř	Ř	ř	Ś	ś	Ŝ
scircumflex	Scedilla	scedilla	Scaron	scaron	Tcommaaccent	tcommaaccent	Tcaron	tcaron	Tbar	tbar	Utilde	utilde	Umacron	umacron	Ubreve
	Ș	ș	Š	š	Ť	ť	Ÿ	ÿ	Ʀ	ƣ	Ũ	ũ	Ū	ū	Ŭ
ubreve	Uring	uring	Uhungarumlaut	uhungarumlaut	Uogonek	uogonek	Wcircumflex	wcircumflex	Ycircumflex	ycircumflex	Ydieresis	Zacute	zacute	Zdotaccent	zdotaccent
	Ű	ű	Ū	ū	Ų	ų	Ŵ	ŵ	Ŷ	ŷ	ÿ	Ž	ž	Ž	ž
Zcaron	zcaron	florin	Ohorn	ohorn	Uhorn	uhorn	Scommaaccent	scommaaccent	uni021A	uni021B	uni0237	circumflex	caron	breve	dotaccent
	Ž	ž	ƒ	Œ	Ų	ų	Ș	ș	Ť	ť	ƶ	ˆ	˘	˙	˚
ring	ogonek	tilde	hungarumlaut	gravecomb	acutecomb	uni0302	tildedcomb	uni0304	uni0306	uni0307	uni0308	hookabvecomb	uni030A	uni030B	uni030C

Inconsistent proportions across weights



AUTOPSY report shows inconsistency in widths across extreme weights – Light, and SemiBold

plohukayahli	calyakahahli	calyapl:ukayahli	cwikayahli	shyakahahli	circumf:x.acute	circumf:x.grave	circumflex.hook	circumflex.tilde
•								
O.sc	uniFB01	uniFB02	uniFFFFD	.notdef	.null	nonmar:greturn		
ikayahli	ookayahli	uekayahli	ekayahli	ukayahli	eekayahli	okayahli		
		•						
breve.acute	breve.grave	breve.hook	breve.tilde	A.sc	E.sc	I.sc		

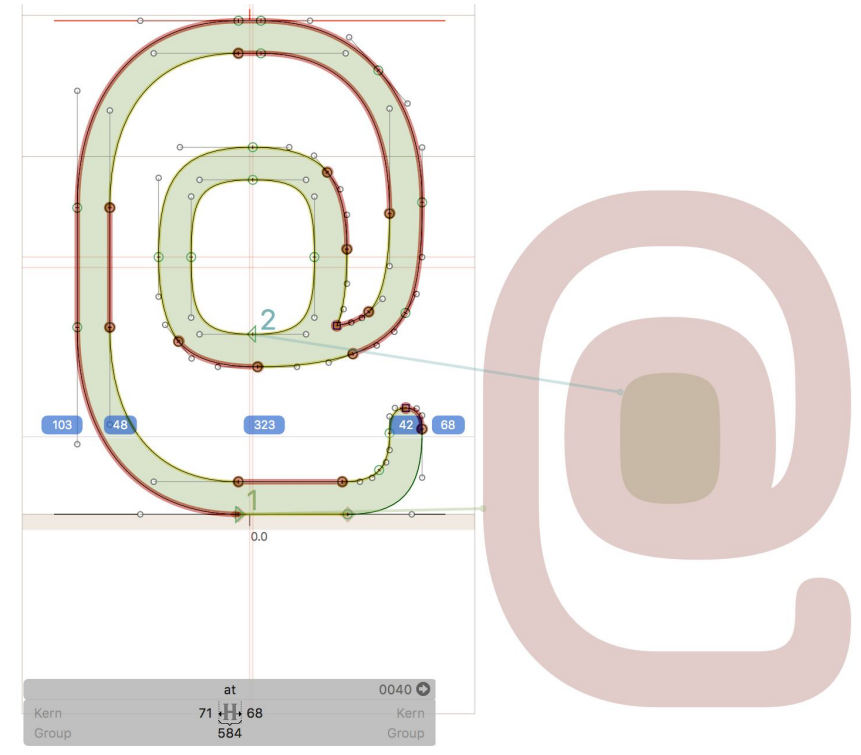
Inconsistent charset

Solutions

Instead of making the masters compatible or reworking each style, a better solution would be to redraw a new hairline master on top of the existing, and apply offset + round corners filters to produce more styles. A single master can be used to generate 8 styles versus the existing 4. Of course, the generated instances will need some fine-tuning.

While drawing the new master, problems with proportions and Cyrillic design will be addressed. This method would take less time and is more efficient in the long run[easier updates in future].

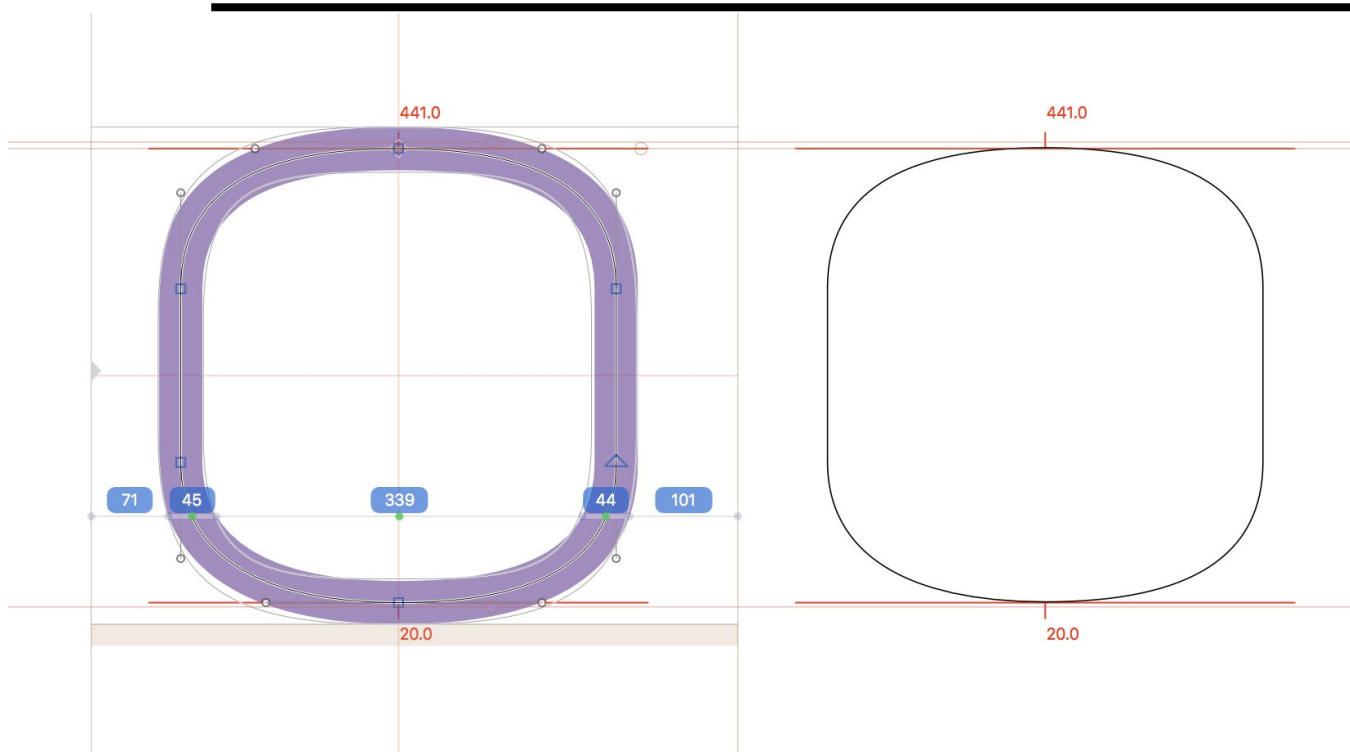
Working in the existing framework requires fixing compatibility issues for almost every glyph, which is an extremely tedious and inefficient method of working.



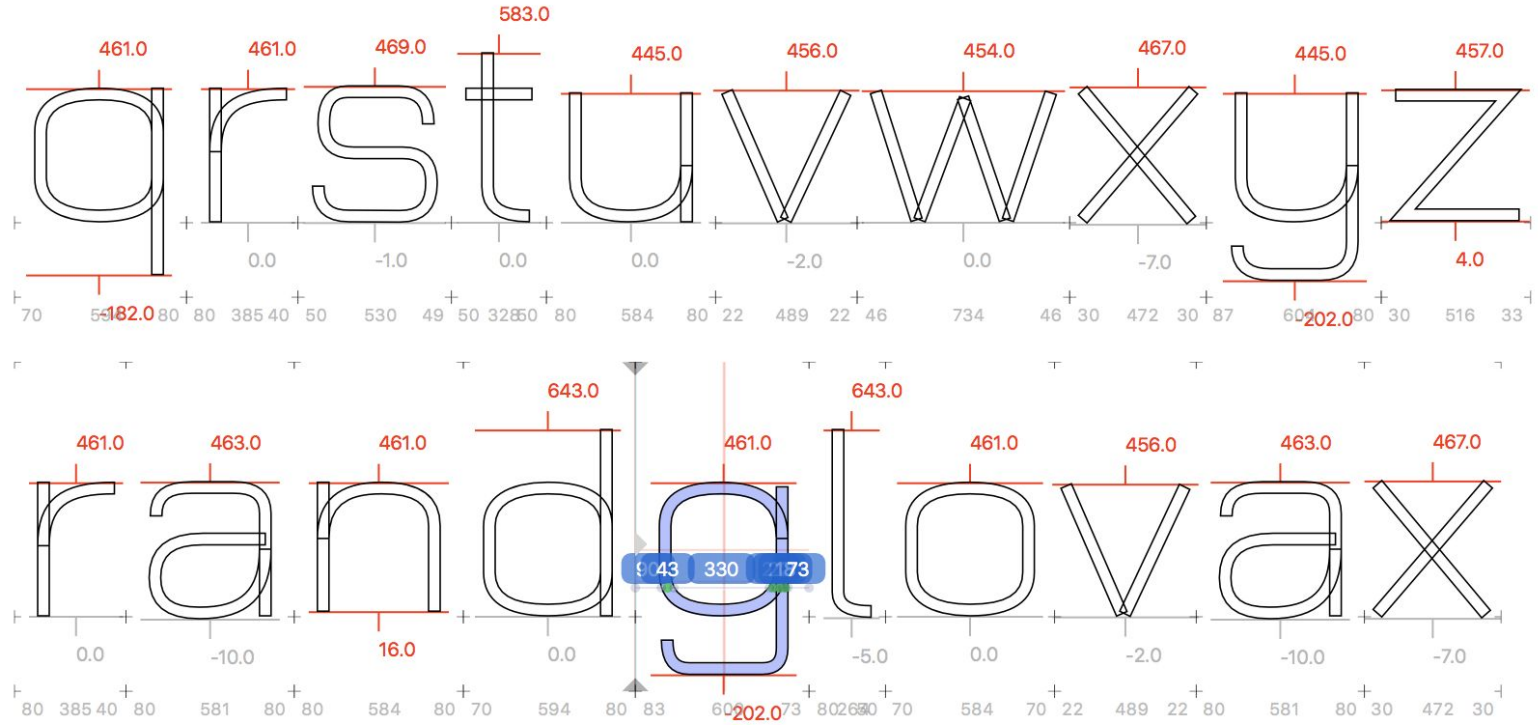
3 hour sprint results

After some work on the original source files I realized it is fruitful to continue in this direction. Each glyph needs to be tediously corrected, and then masters made compatible. Much faster would be to redesign from scratch. So, I created a new font, and assigned the original Regular style as a background for referencing. During 3 hours I was able to complete basic Latin a-z, and generate 8 styles programmatically.

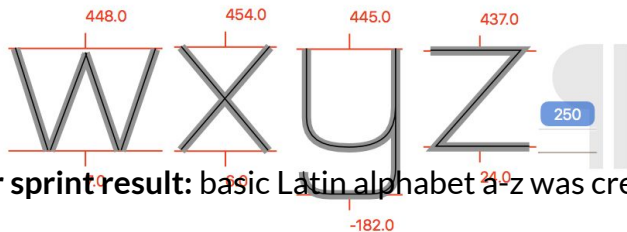
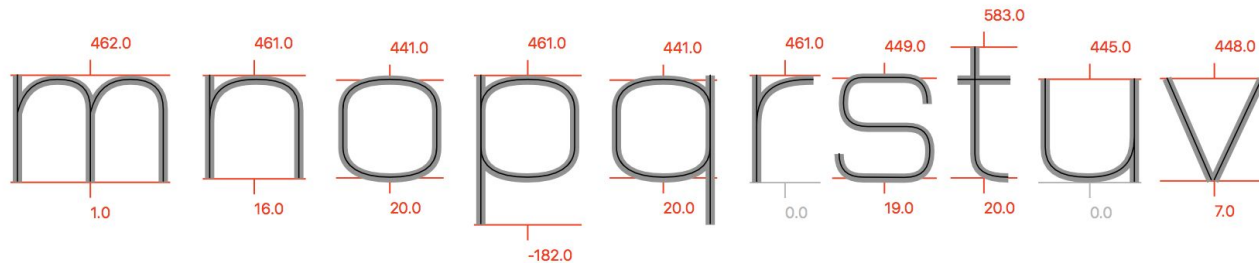
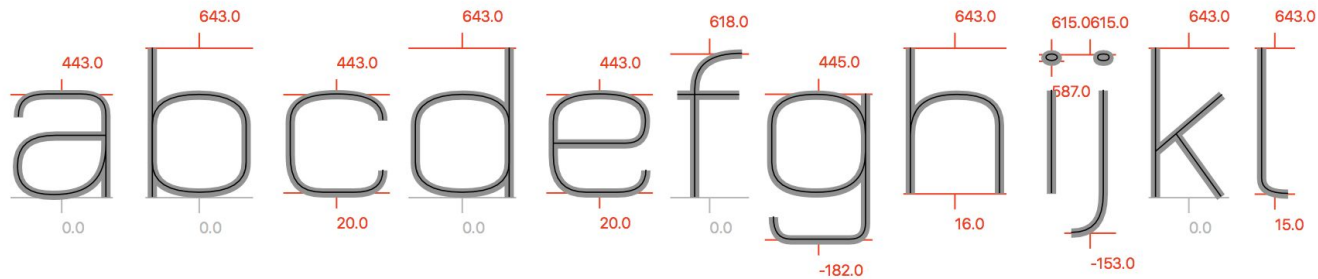
Then I made several iterations to improve the spacing and amount of weight for each style. First I recreated the existing 4, and then explored options for extending weights for Jura. The generated Bolder styles would require a fair amount of manual fine-tuning, while Lighter styles are ready-to-go.



Method of working. Right: Offset filter applied real-time to create the Regular weight. Left: Single *hairline* master used for generating all 8 weights.



Work-in-Progress. Programmatically generated Regular style. Offset filter: applied. Round Corners Filter: not applied.



3 hour sprint result: basic Latin alphabet a-z was created. Problems with proportions and spacing were fixed along the way

Thin Offset

Thin

Light

Regular

Medium

SemiBold

Bold

UltraBold

Black

is active

Style Name

Weight 900

Width 5

Style linking

This instance is the Bold, Italic of

Interpolation

Weight Width Custom

Custom Parameter

Property	Value
Filter	↕ Noodler; 160.0; 1; 1;
Filter	↕ Transformations;LSB:+60.0;RSB:+60.0;

3 hour sprint result: Extending the weight scope. Style-specific transformations to metrics and strokes were applied.

13px

**fortieth boring trait favoring barrage referring thrusting
tannest embargo sausage gaining astutest augur hibernate
variant hearse beggaring foresee eagerer hearten
ensnaring tufting interstate meager veneration stigma
feminine tabbing noising trimming throbbing ransoming
stiffen oaring fishing rehire overbore bonniest ravishment
teensiest mintier shriven unforeseen overrate surgeon
smarter submarine revenging assuaging masher amnesia
insentient rehashing fresher buttering sorghum thine sitter
month serer minting variate torsion gaunt berthing goofiest
sober informing sourer tonight neigh iratest torte situate
rheumier antagonist serenizing motion guise unseeing
masseur**

16px

fortieth boring trait favoring barrage referring thrusting
tannest embargo sausage gaining astutest augur
hibernate variant hearse beggaring foresee eagerer
hearten ensnaring tufting interstate meager veneration
stigma feminine tabbing noising trimming throbbing
ransoming stiffen oaring fishing rehire overbore bonniest
ravishment teensiest mintier shriven unforeseen overrate
surgeon smarter submarine revenging assuaging masher
amnesia insentient rehashing fresher buttering sorghum
thine sitter month serer minting variate torsion gaunt
berthing goofiest sober informing sourer tonight neigh
iratest torte situate rheumier antagonist serenizing motion
guise unseeing masseuse

16px

fortieth boring trait favoring barrage referring thrusting tannest
embargo sausage gaining astutest augur hibernate variant
hearse beggaring foresee eagerer hearten ensnaring tufting
interstate meager veneration stigma feminine tabbing noising
trimming throbbing ransoming stiffen oaring fishing rehire
overbore bonniest ravishment teensiest mintier shriven
unforeseen overrate surgeon smarter submarine revenging
assuaging masher amnesia insentient rehashing fresher
buttering sorghum thine sitter month serer minting variate
torsion gaunt berthing goofiest sober informing sourer tonight
neigh iratest torte situate rheumier antagonist serenizing motion
guise unseeing masseuse

3 hour sprint result: Testing the generated styled and fine-tuning transformation settings. Bold style need manual adjustments.

96px

the five boxing wizar

84px

the five boxing wizards

72px

the five boxing wizards jum

60px

the five boxing wizards jump qui

48px

the five boxing wizards jump quickly pac

36px

the five boxing wizards jump quickly pack my red box

30px

the five boxing wizards jump quickly pack my red box with five dc

24px

the five boxing wizards jump quickly pack my red box with five dozen quality jug

18px

the five boxing wizards jump quickly pack my red box with five dozen quality jugs a very big box sailed up th

96px

the five boxing wiza

84px

the five boxing wizards

72px

the five boxing wizards jur

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the five boxing wizards jump quickly pack my red box

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the five boxing wizards jump quickly pack my red box with five d

24px

the five boxing wizards jump quickly pack my red box with five dozen quality jug

18px

the five boxing wizards jump quickly pack my red box with five dozen quality jugs a very big box sailed up t

3 hour sprint result: Left: Original Jura. Right: Generated Medium style from the new Master. Refined spacing and proportions

	original	new
250		thin
300	light	light
400	book	regular
500	medium	medium
600	semibold	semibold
700		bold
800		ultrabold
900		black

3 hour sprint result: Left: Original Jura. Right: New proposed styles

original

new

randgloves

randgloves

adhesion

adhesion

interpolate

interpolate

eurostyle

eurostyle

3 hour sprint result: Left: Original Jura. Right: New refined styles

Conclusions 07-29-2016. Roadmap

1. Draw light master (update d, etc, revise spacing)
 2. Draw Bold master with larger x-height
 3. Interpolate in-between instances, apply metrics transformations
 4. Total number of weights: 7
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