

Willison: the creation of a digital typeface based on researched handwriting at the Wagner Institute of Science.

A work in progress

Dermot Mac Cormack

This project would not be possible without:

The Wagner Free Institute of Science

Lynn Dorwaldt, Susan Glassman

Tyler School of Art & Architecture

Dean Susan Cahan, Ken Finkel

21xdesign

Patricia McElroy, Julie Lam, Marrissa Lough

Special thanks to

James Todd, Tom Uhlein, Gerard Brown, Ian Lynam, Dan Marcolina & Scott Laserow for advice and technical support when it was sorely needed.

mounted a table,
a man arrived at Lenoir till 5 o'clock from
passing the baggage thru the custom
very fatiguing. I had no trouble ex-
ation of waiting a turn the trunks & c
Custom House hoisted up stairs in the
things opened and the officer passed the
renation all was then closed and
I proceeded to our lodgings Cu-
the cutter charged 5^s portage for

1310
The
J. W.
W.

Phys
W. W. W.

W.



5.
carlini
Lodici

1849
Min. del Stato Inc. del Portaf.
degli Affari Esteri

S. Lilla 1/2

Ministero de' Affari Esteri

S. Pietro 2



21 904
Magdeburg
Die Polizei-Behörde
Schonfeld



N^o 2780
Gut nach
Magdeburg
Vatzenberg d. Mann d. 20
am 1. Januar 1841
Königl. Post-Bureau



Dresden
Lippig) und eine Briefpost...
Lippig) und eine Briefpost...
Lippig) und eine Briefpost...

Wien
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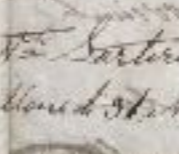
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1841

Baginates



Gröbel

NEW YORK

Prof. Dr. J. J. Taylor



Depart

1 Maggio 1842
Milano colle
H. Schubert

28 May 1842

Vertical scribble or signature on the right side of the page.

Soiana
Affari
America. Stati
per Roma per il
Sig. Gug. Wagner
Cotta Moggi
Napoli 28 Marzo 1841

v. 1841.

Carda

est.



Al. G. Amante
Cantale

Secunda del



Audibergum

Musca

Vu a la Legation des Et

D'Amérique bon pour Lou
et la Sardaigne.

Vienne le 23 Novembre 1841

L. Randolph



COSTANTINO RINALDI
MOSAICISTA

Via del Babuino N° 124 A e 125.

ROMA

*1 Paul Louis
1 Sparreville
1 Barreanno
1 Lorenzini*

Fabrique d'ustensilles de Pêche et de Chasse

Brevet d'Invention



Brev. ou 1839. Citation Favorable

N. 8.

M^{ME} SAVOURÉ,

et Rue Notre-Dame de Nazareth

Lon. John Weale	1850	260	D.
Lon. John Weale	1850	130	D.
Lon. N. P.	1807	274	0.
Phila. Lindsays & Blakiston	1853	436	D.
N.Y. Harper & Bros.	1851	396	D.
Wash. Gov. Printing Office	1898	160	0.
Wash. Gov. Printing Office	1898	351	0.
Wash. Gov. Printing Office	1896	255	0.
Wash. Gov. Printing Office	1874	85	0.
Lon. N. P.	1814	396	0.
Phila. Lippincott, Grambo	1853	355	0.
N. Y. P.	1851	284	D.

Transferred to the Library Thulada 1908
" " " " " " " " 1930.

Deposited Free Library Phil. 1925

Transferred to the Library Thulada 1908

Transferred to the Library Thulada - 1908

Deposited, Free Library, Phil. 1925.

Transferred to the Library Thulada 1908

dire atomo
za, non minutia di seme, non fre
to da filosofarui intorno, e molto
conduca a pellegrine notitie a
dagli Antichi, specolando into
Che per ciò celebrandosi da vna
Secolo l'esatto e singolare stu
celebre Accademia, protetta da
Promotori, gli disse, d'ogni mera
riti di somiglianti delitie letterate
mensi dell'Anime grandi, e che

*P. Gio:
Paolo Oli
ua nelle
lettere
Tom. 2.
lett. 665.*

58
 frutto, che per la delicatezza superiore a quella de
 tri, con nome di Dattilo da tutti si distingue; e
 accaduto nel rompere sassi diuersi, trouare in cia
 rinchiuse altre specie particolari di Cocchiglie, ma
 biualue, e tutte come i Ballani di fragilissima sc
 confermandomisi in ciò il prudente operare della
 ra, che hauendo circondati questi suoi deboli parti
 sodissimo parapetto di pietra, volle solamente con
 armatura coprirli, e per così dire vestirli alla legge
 mentre temer non poteano alcuna inuasionc; E d
 dandomisi quasi euidente argomento per credere, c
 ciascun di que' sassi fosse vna propria, e particolare
 non proceduta da qualche Animale; ma tale che poss
 inuariata generatione sempre prodursi viuente della
 desima specie.

Stimo che di quest'assertione si burlerà il Sig.
 Rhedi, che nelle sue sperienze intorno agl'Insetti
 stantemente afferma non potersi dare alcuna genera
 spontanea, ma che tutte quelle, che si vedono in tan
 varietà di corpi non animati, procedano da paterna sem
 portatani sopra da altri Animali, e se queste semenze
 vi saranno realmente portate, niente si vedrà mai nasc
 nè dall'erbe, nè dalle carni putrefatte, nè in qualsisia al
 cosa, che in quel tempo attualmente non viua. Ma nec
 come si opporrebbe alla sperienza da me fatta, allora
 pigliati molti fiori detti Giacinti, e alquanto pestati
 posti in vn vaso di vetro chiuso con coperchio di terra
 aspettandone da quella massa infracidata qualche sp
 tanea generatione, e dopo hauerlo tenuto per alcune
 timane in vn' armario, vi trouai generati molti vermi
 sostanza trasparente, e muccosa, che per il vetro so

Carte 59



Wagner-Frisch
 INSTITUTE
 of Bologna

Porcupine Fish

284

Bermuda

Samuel Wagner & J. S. Montgomery

mine Fish



Hydractinia echinata

Spec. No. 3768 • St. Augustine

C. W. Johnson

Fla

Myanmar art

250 Sathorn
No. Fish Cann. (19

Simulium

7-10/50 - 51

Coll. Virginia, 2

Polymorphismus.

e. Crabs; King

Libinia c.

"Sea Spider"

Robert Hancock

atla Say.

cab.

Atlantic City
N.J.

Family: Dermestidae.

Posterior coxae dilated
into plates partially pro-
tecting the femora Antennae
with the last three
segments forming a large
club.



Amel...



Dulichnina
vivipes Hal.

Cyathus agitator



Xabia bipunctata

Order: Physoptera

The members of this order have four wings; these are similar in form, long narrow, membranous, not folded, without few or no veins, and only rarely with cross veins; they are fringed with long hairs, and are laid horizontally above

Fig. 6.

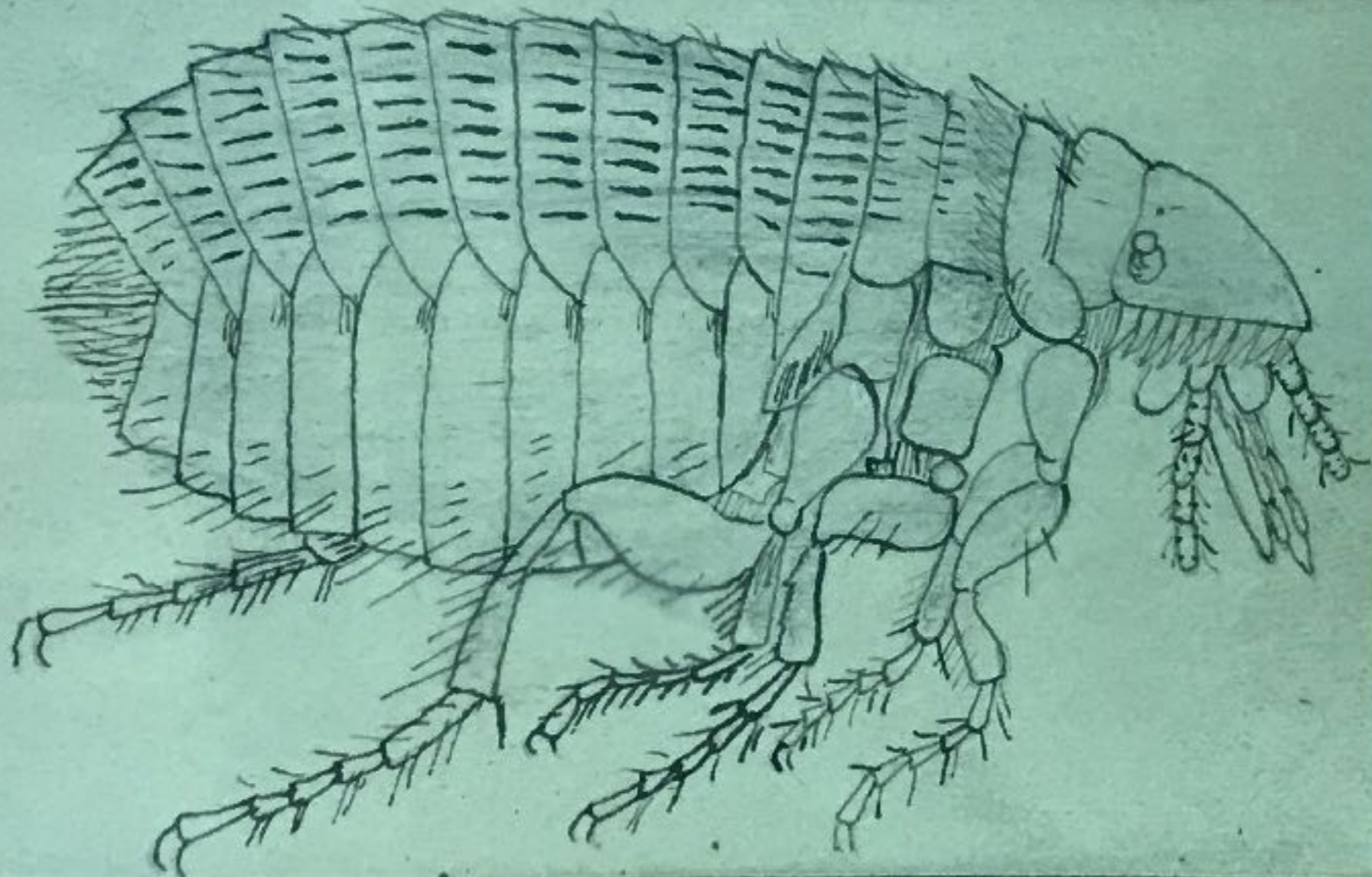
Agarionemus nialii

Eggs of *Microgaster*
From Dr. B. H. Warren.

Eupelmus viridipilis Walker
Bred from the eggs of the Green
Grasshopper (*Micropsocus*)

Bee larvae:

Order Siphonaptera
Family Psittaciidae



Pulex irritans

Charles Willison Johnson



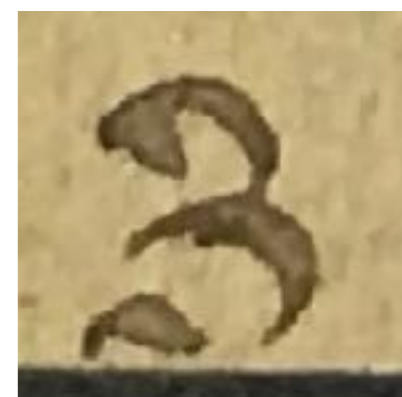
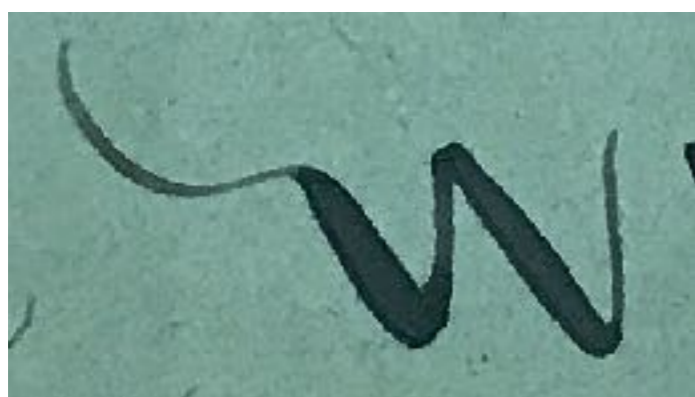
- Charles Willison Johnson was born on October 26, 1863, in Morris Plains, New Jersey.
- In 1880, he moved to St. Augustine, Florida, a place that inspired his interest in natural history.
- In 1888, while living in Florida, he met Joseph Willcox, who was at the time leading several expeditions from the Wagner Free Institute of Science to explore the paleontology of Florida. Willcox was impressed with Johnson's collection and his knowledge, and invited him to be a curator at the Wagner.
- Johnson moved to Philadelphia later in 1888 and began his job as curator for the Wagner. Under the leadership of Joseph Leidy, Johnson was tasked with reorganizing the collections.
- In 1891 Johnson went on an expedition to Jamaica, collecting shells and insects. Several of the shells were described as new species. In 1897, he married Carrie W. Ford. In 1903, Johnson was made curator of the collection of the Boston Society of Natural History.
- In 1910 he helped to found the Boston Malacological Club. He also spent this time collecting and studying the insects and mollusks of New England.
- Johnson's was the Wagner's foremost insect collector, and was responsible for the excellently organized and preserved entomological collection (which was later devastated by a dermestid beetle infestation).
- His personal collection is now owned by Harvard University. He died July 19, 1932, in Brookline, Massachusetts.

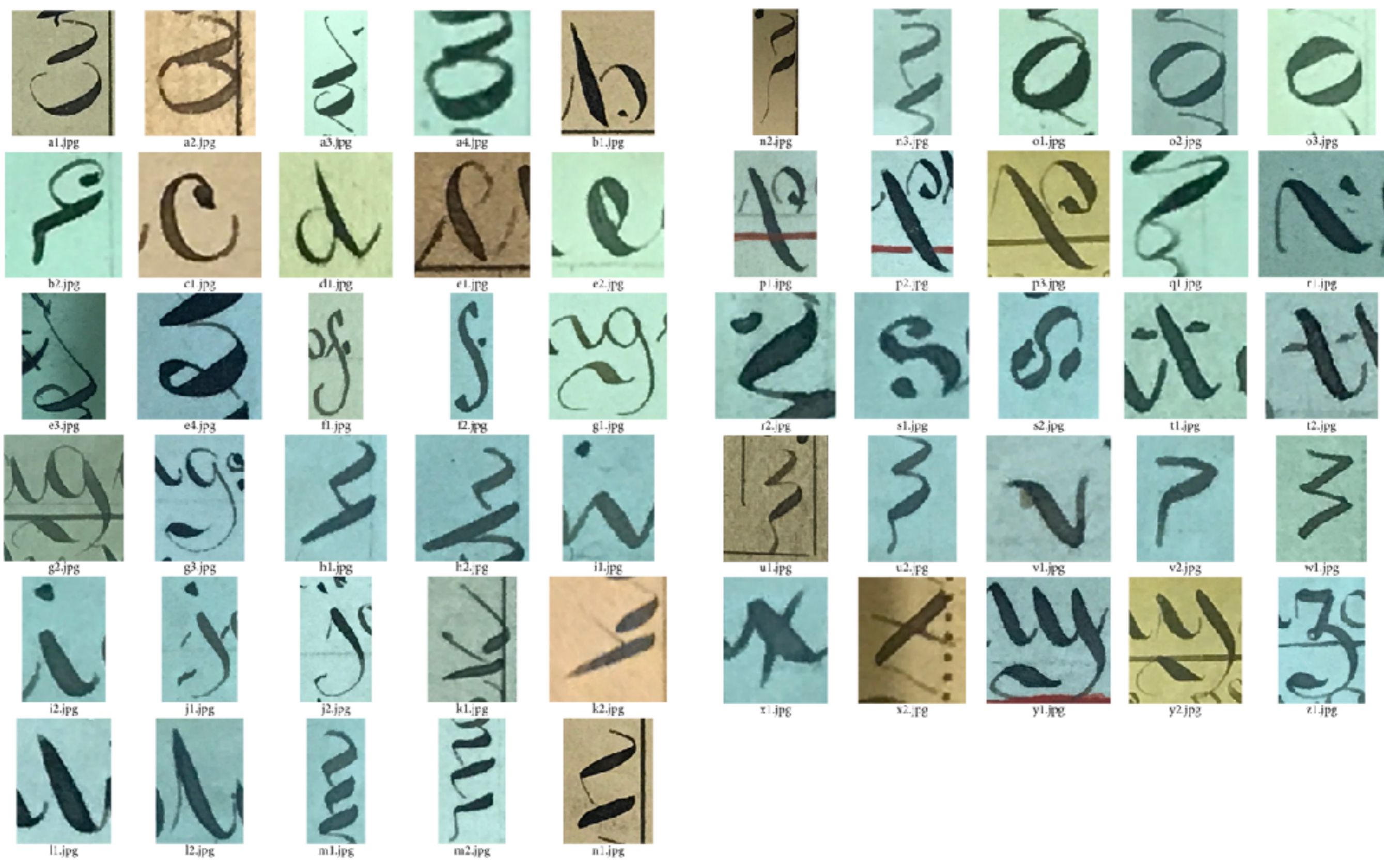
Perhaps the only anecdote from the Wagner archives on Johnson

This is from a letter written by Joseph Willcox in July 1889 from Paris. Willcox was in Paris with Joseph Leidy purchasing specimens for the Museum. The letter is addressed to Thomas Montgomery (the museum's actuary and librarian) and contains this paragraph.

“I hope you and Mr. Johnson will succeed in your attempt to put on an exhibition in the museum on all the insects found in Phila. I can picture to myself Mr. Montgomery sitting on a chair at night in the Institute lot with a lantern in his hand to invite all the insects in the vicinity to the light; while Mr. Johnson rushes around wildly with a sweepnet to catch them. If you plant some sweet-scented flowers in the lot, you might attract and catch some wasps and bumble bees, and perhaps a stray honey bee. Take Mr. Johnson out to some of the suburban truck patches, and possibly he may trap a few potato bugs; and perhaps he may succeed in trapping some of the cockroaches in one of your Willington St. houses.”

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a1.jpg

a2.jpg

a3.jpg

a4.jpg

b1.jpg

n2.jpg

n3.jpg

o1.jpg

o2.jpg

o3.jpg

b2.jpg

c1.jpg

d1.jpg

e1.jpg

e2.jpg

p1.jpg

p2.jpg

p3.jpg

q1.jpg

q2.jpg

e3.jpg

e4.jpg

f1.jpg

f2.jpg

g1.jpg

r2.jpg

s1.jpg

s2.jpg

t1.jpg

t2.jpg

g2.jpg

g3.jpg

h1.jpg

h2.jpg

i1.jpg

u1.jpg

u2.jpg

v1.jpg

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w1.jpg

i2.jpg

j1.jpg

j2.jpg

k1.jpg

k2.jpg

x1.jpg

x2.jpg

y1.jpg

y2.jpg

z1.jpg

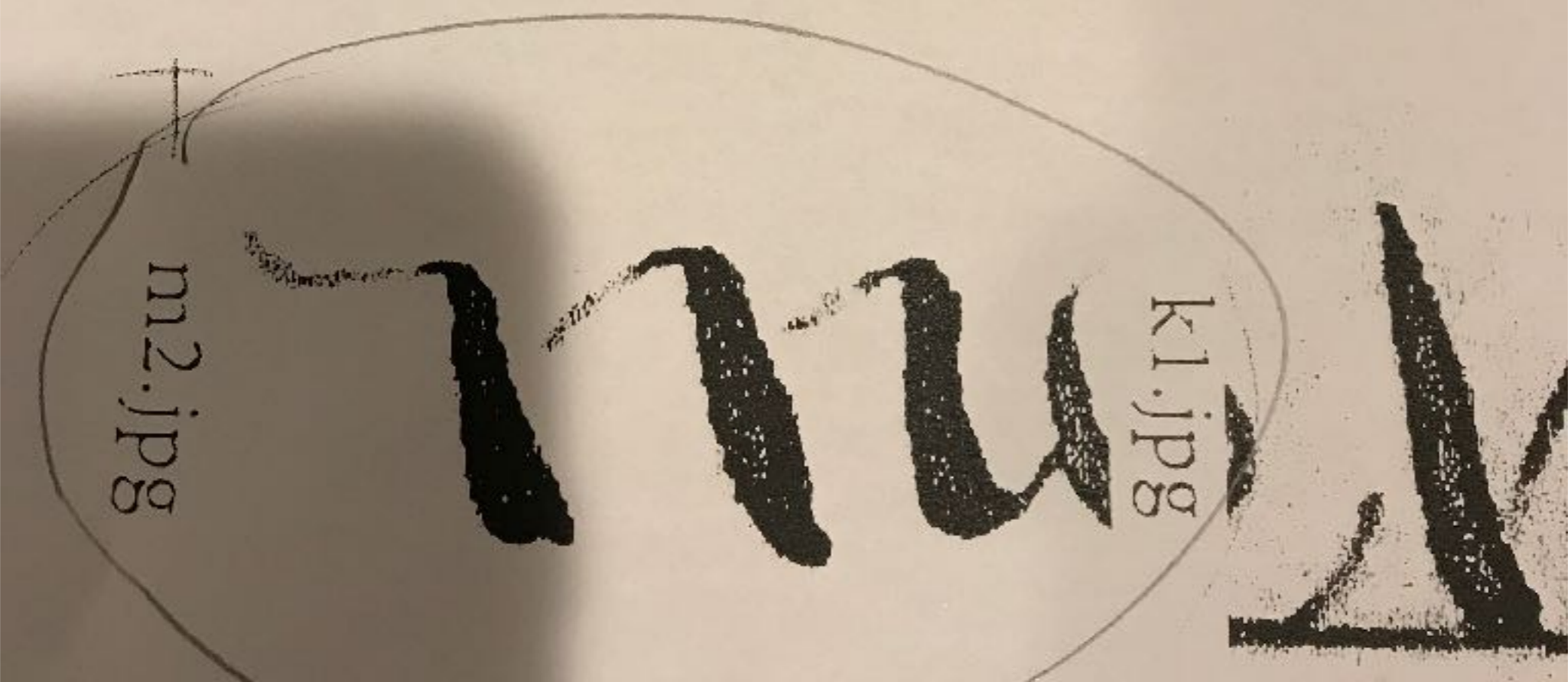
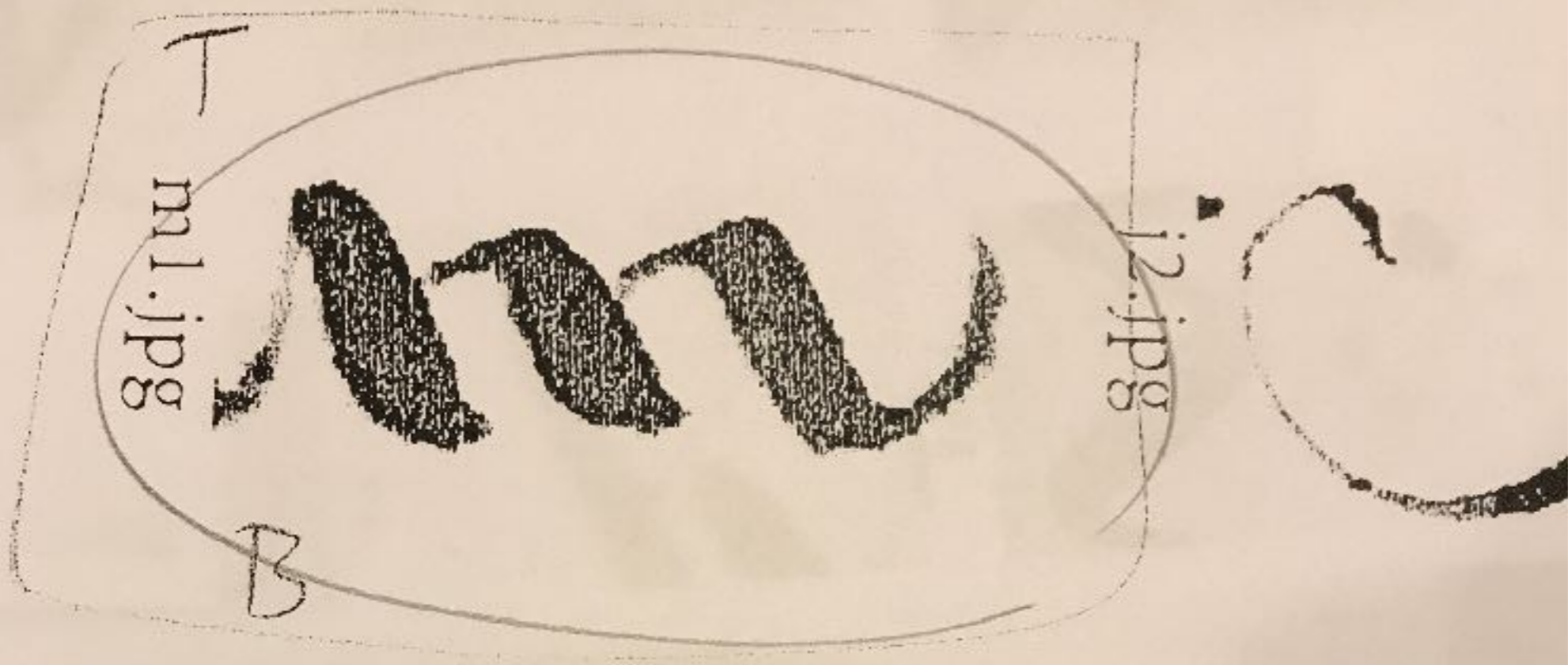
l1.jpg

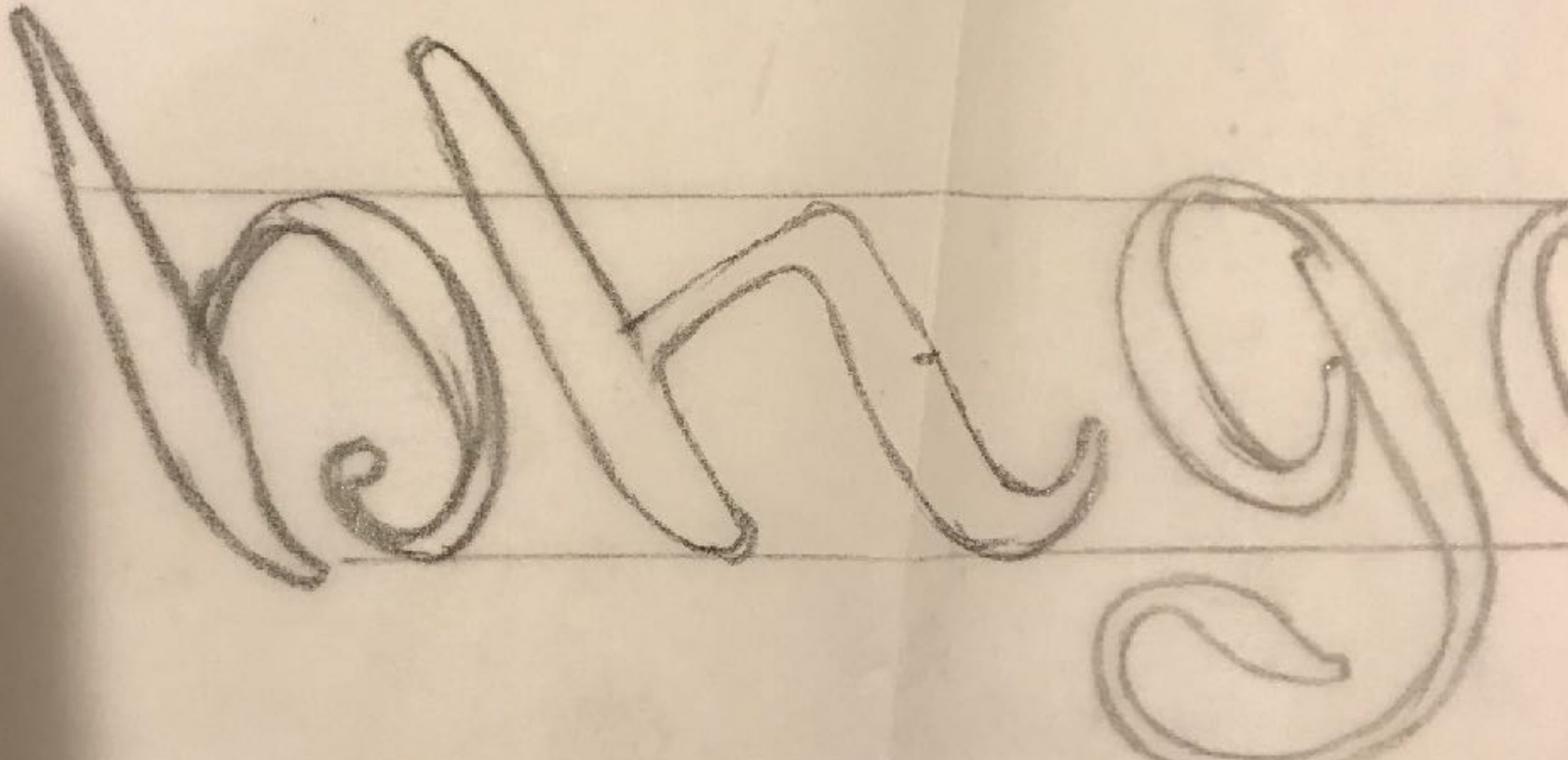
l2.jpg

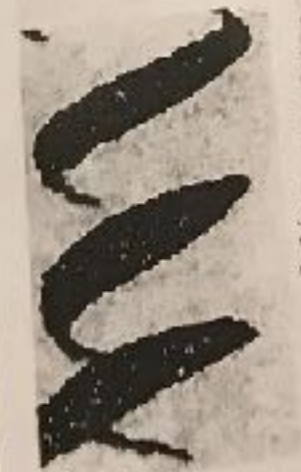
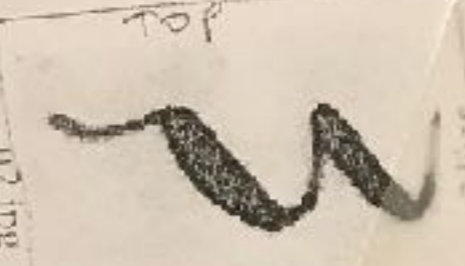
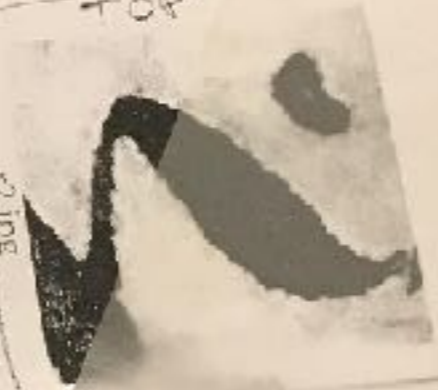
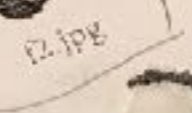
m1.jpg

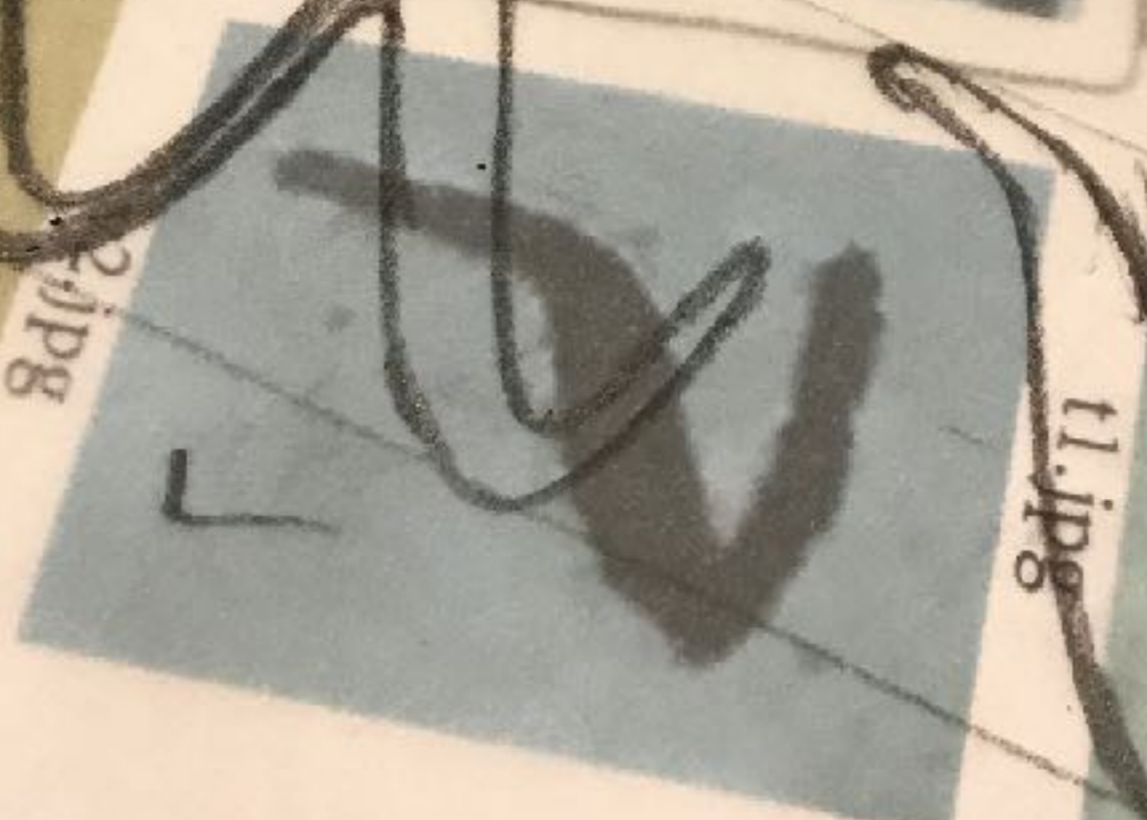
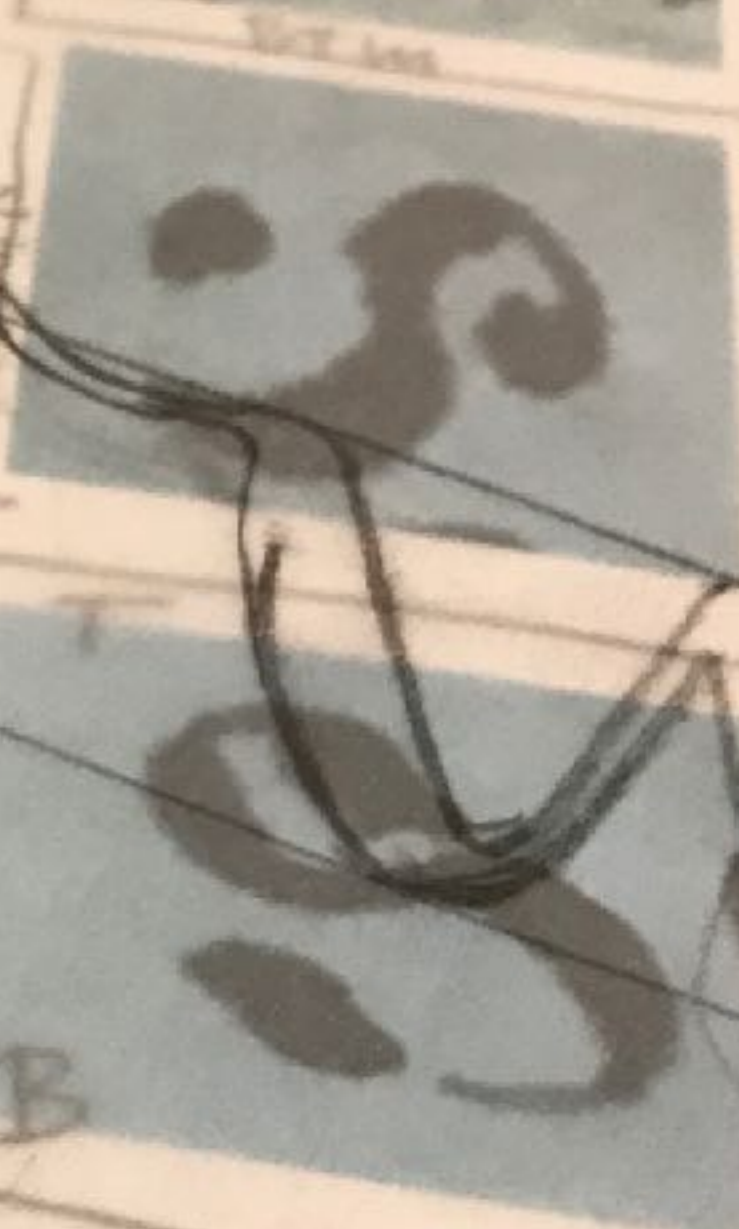
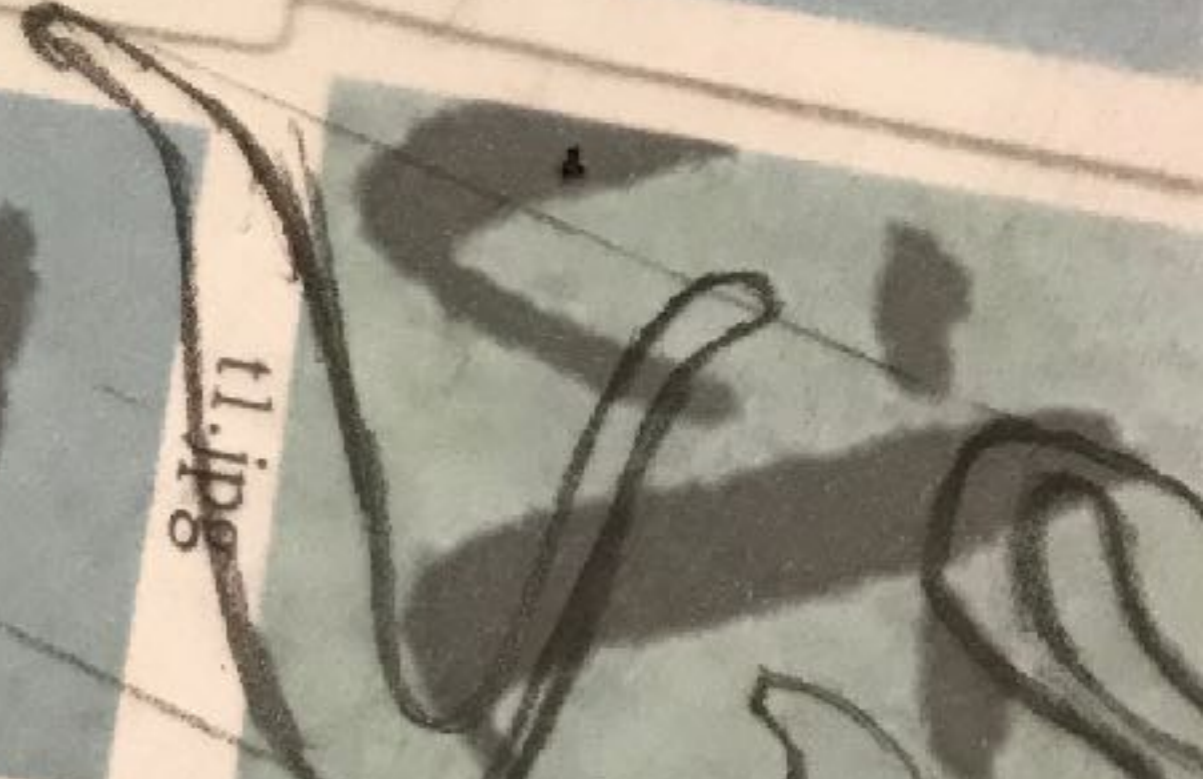
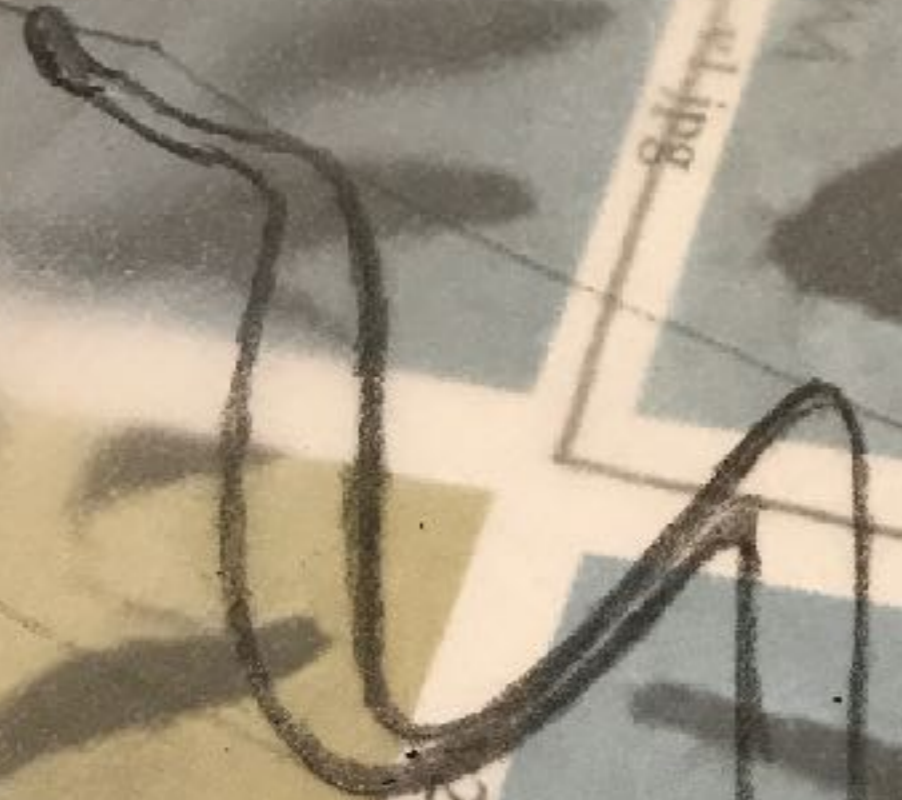
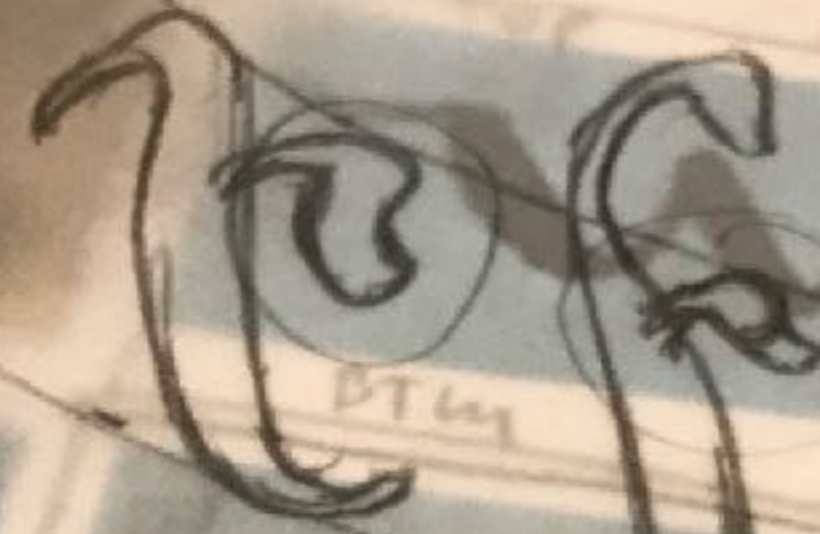
m2.jpg

n1.jpg









7

B

BT layer

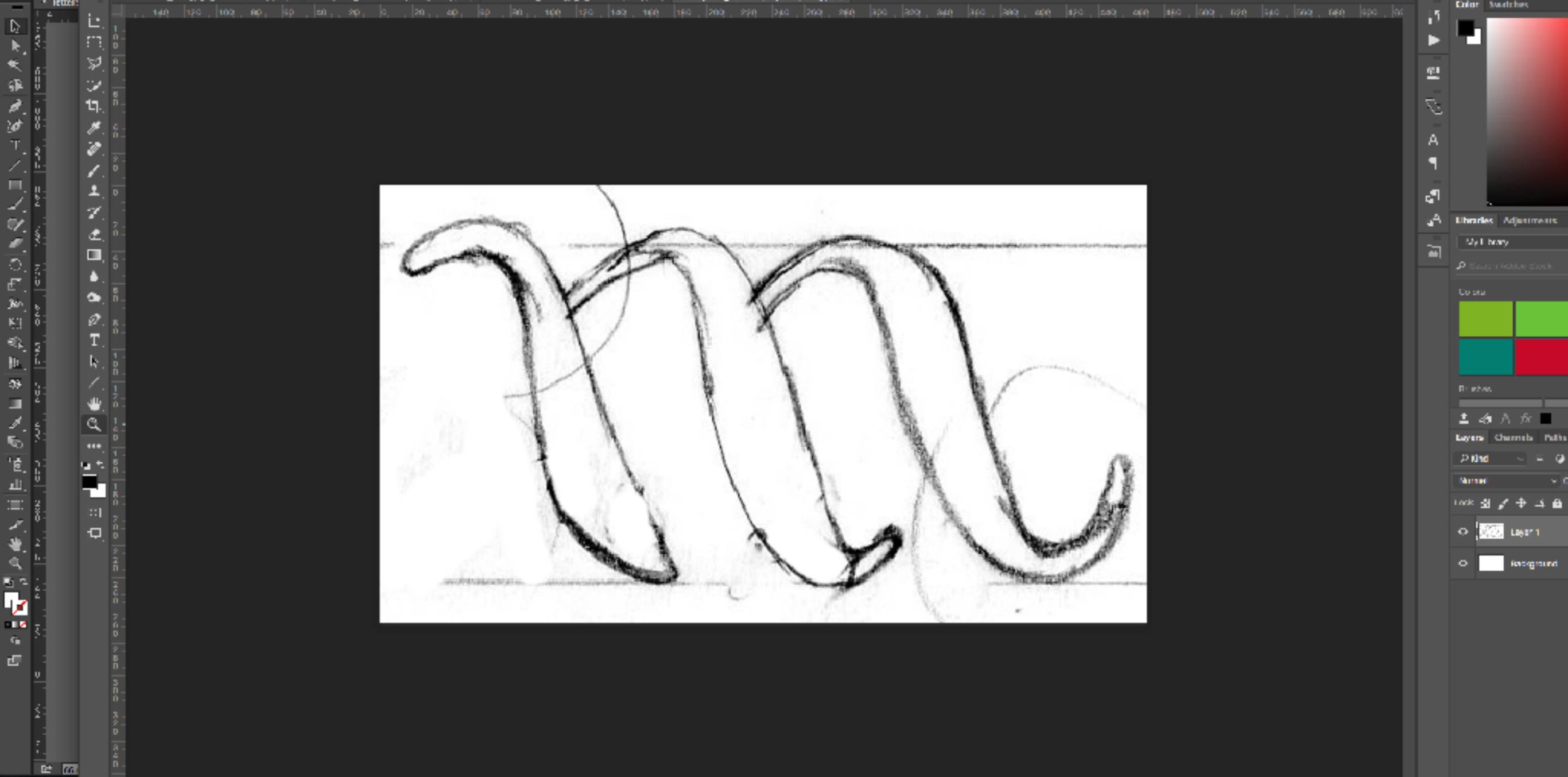
stamps

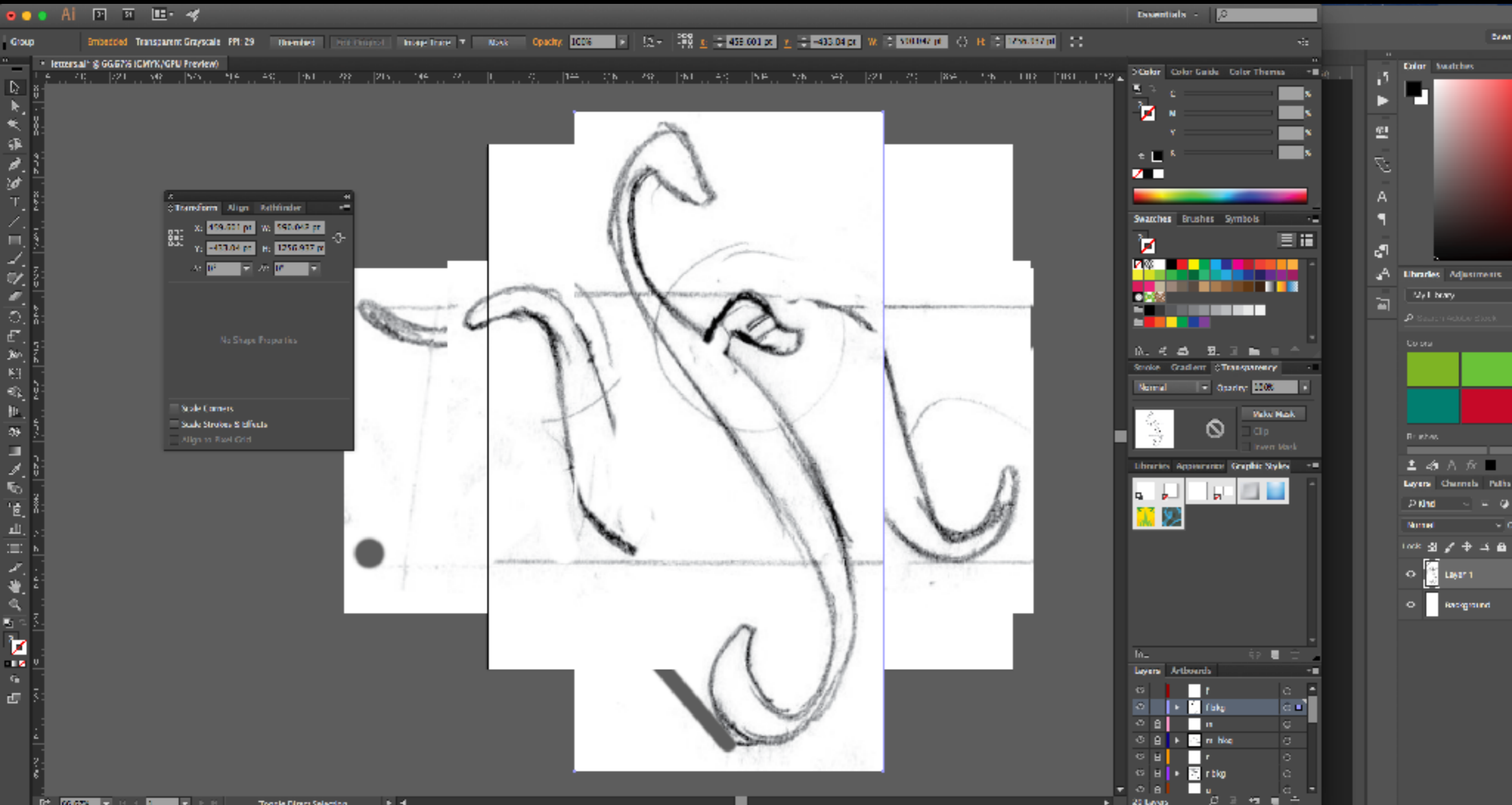
8d/1p

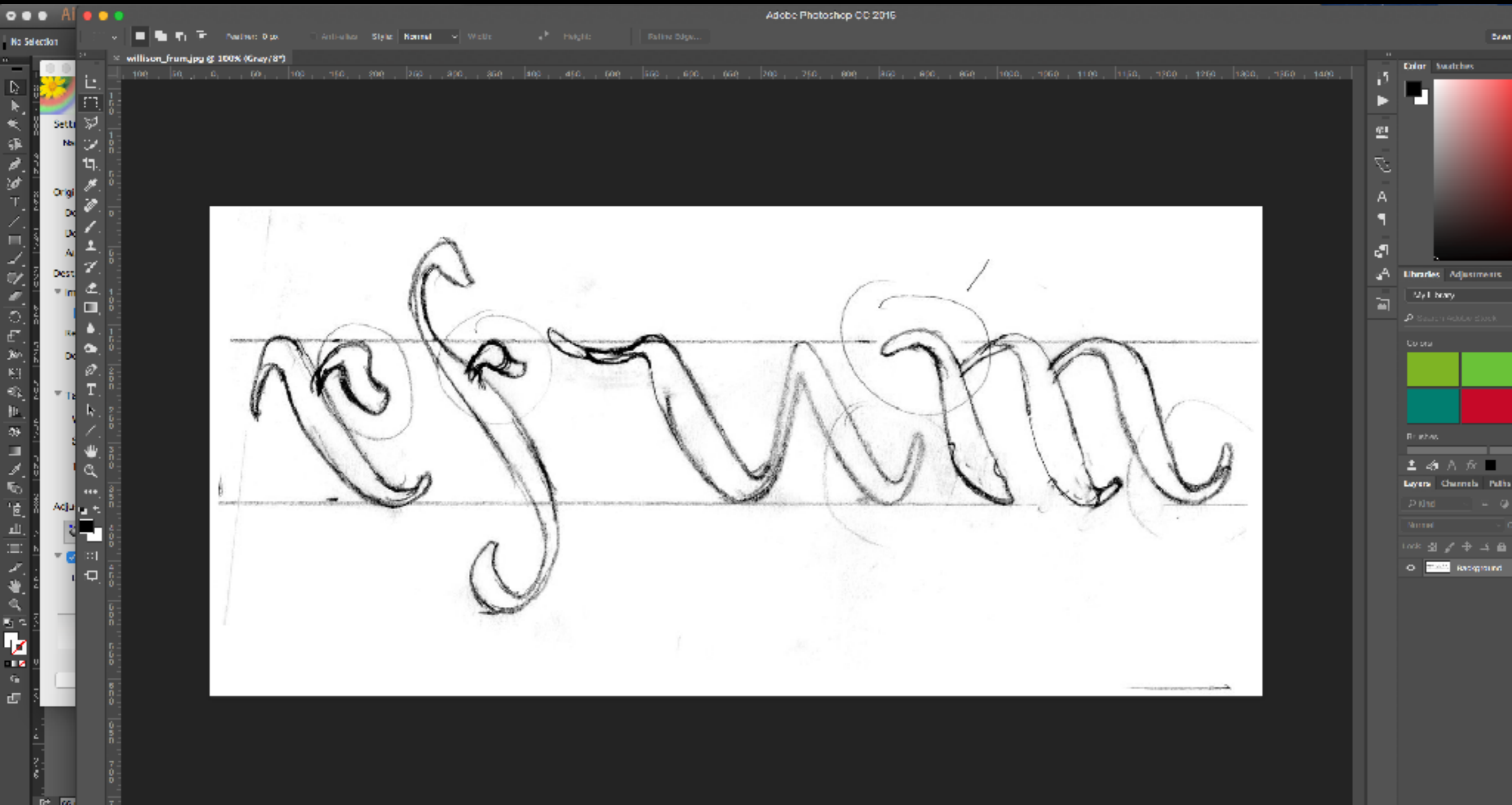
8d/1p

t1.jpg

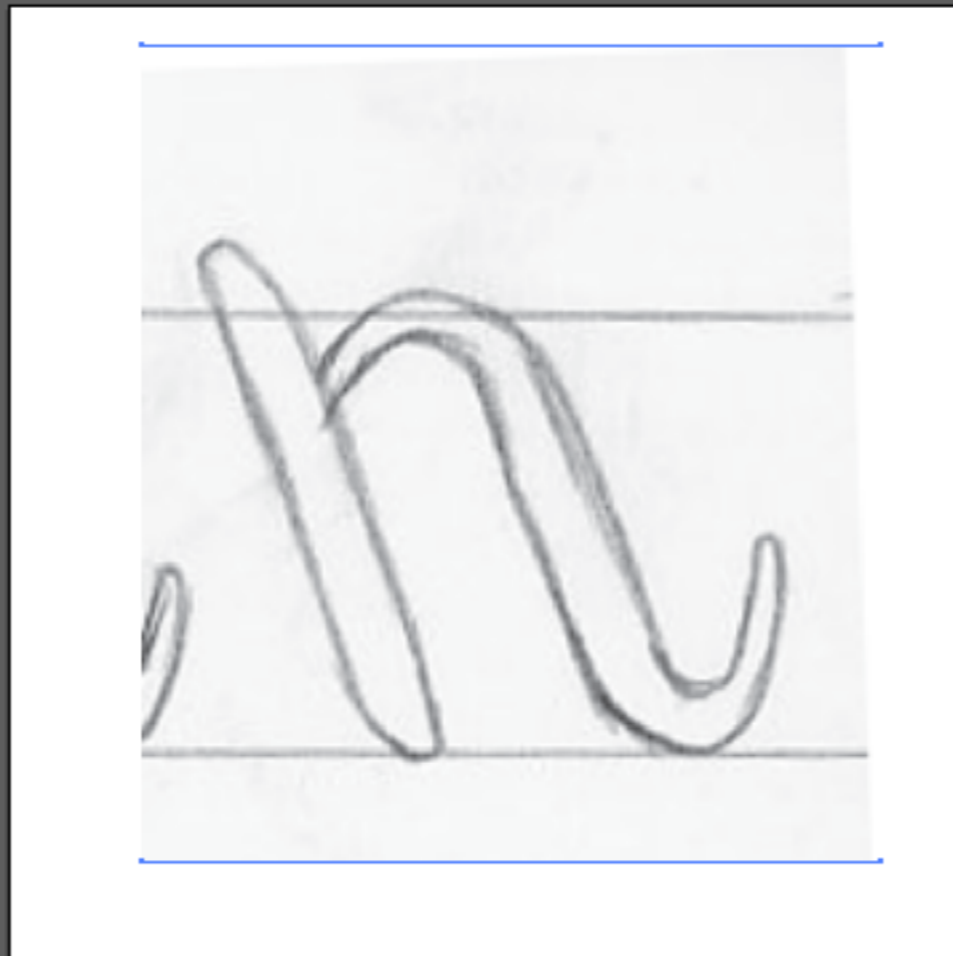
2.jpg











Essentials

Color Color Guide Color Themes

Swatches Brushes Symbols

Stroke Gradient Transparency

Layers Artboards

Layer 2
Layer 1

Transform Align Pathfinder

528.652 pt 779.245 pt

528.650 pt 867.466 pt

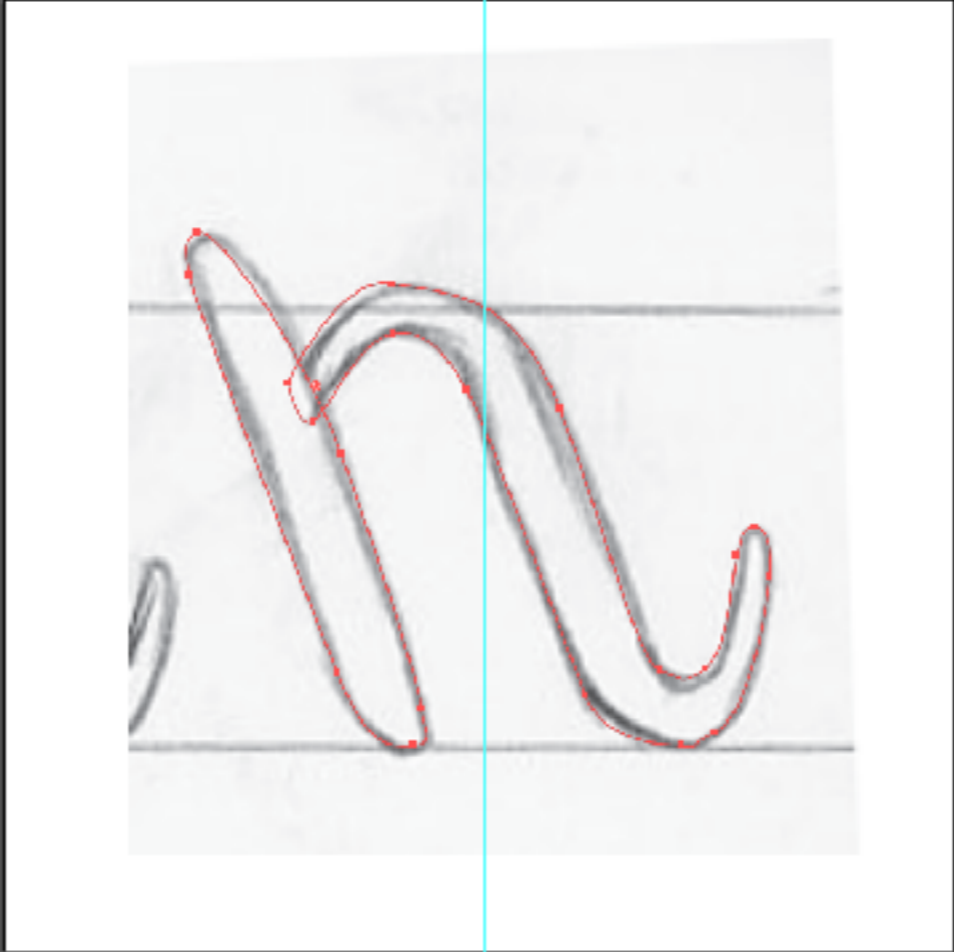
0° 0°

No Shape Properties

Scale Corners

Scale Strokes & Effects

Warp to Pixel Grid



Transform Align Pathfinder

X	400.551 pt	514.724 pt
Y	483.055 pt	542.570 pt
W	0°	0°
H		

No Shape Properties

- Scale Corners
- Scale Strokes & Effects
- Warp to Pixel Line

Essentials

Color Color Guide Color Themes

Color: C M Y K

Swatches Brushes Symbols

Stroke Gradient Transparency

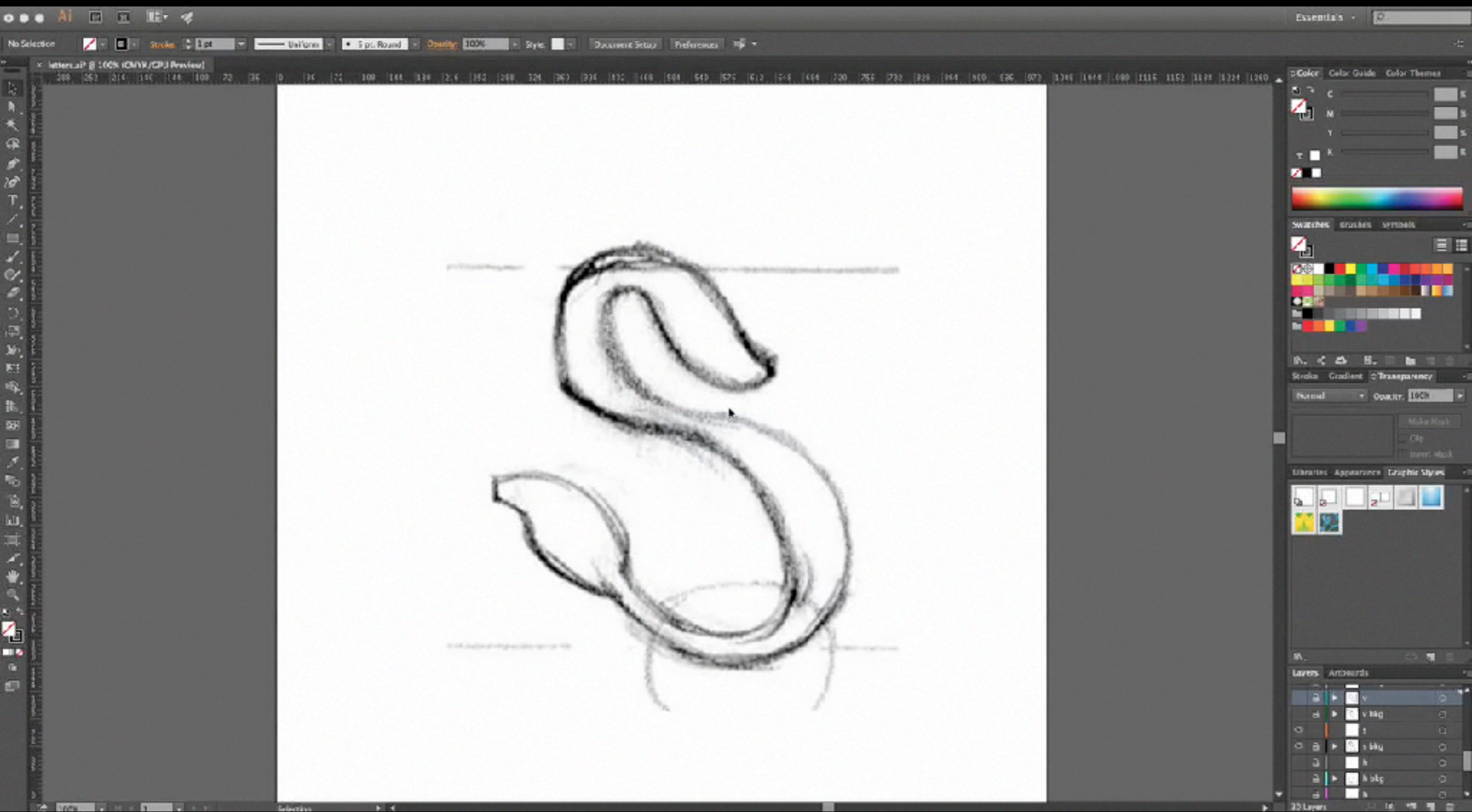
Normal Opacity: 100%

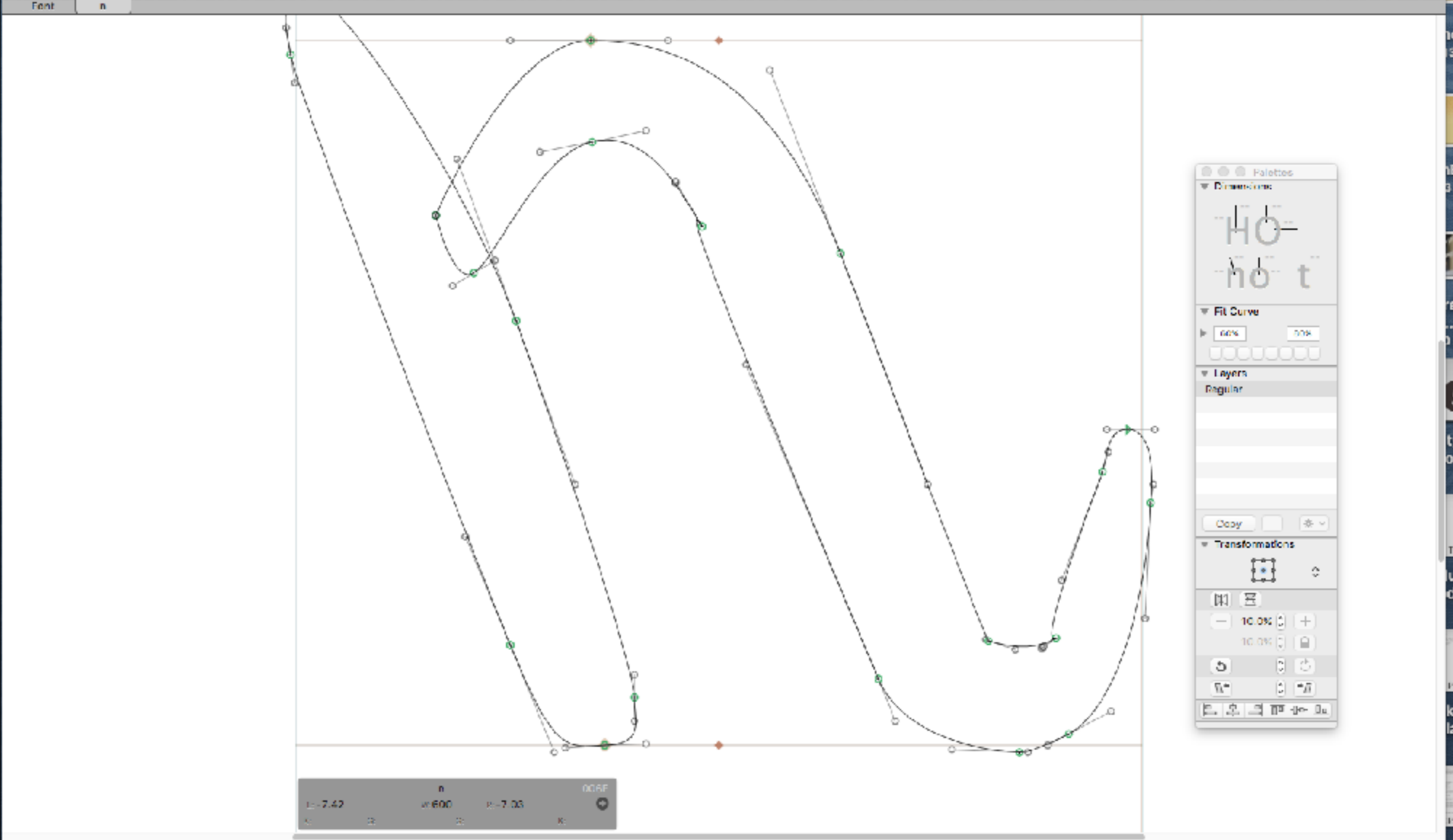
Multi-Mask Clip Invert Mask

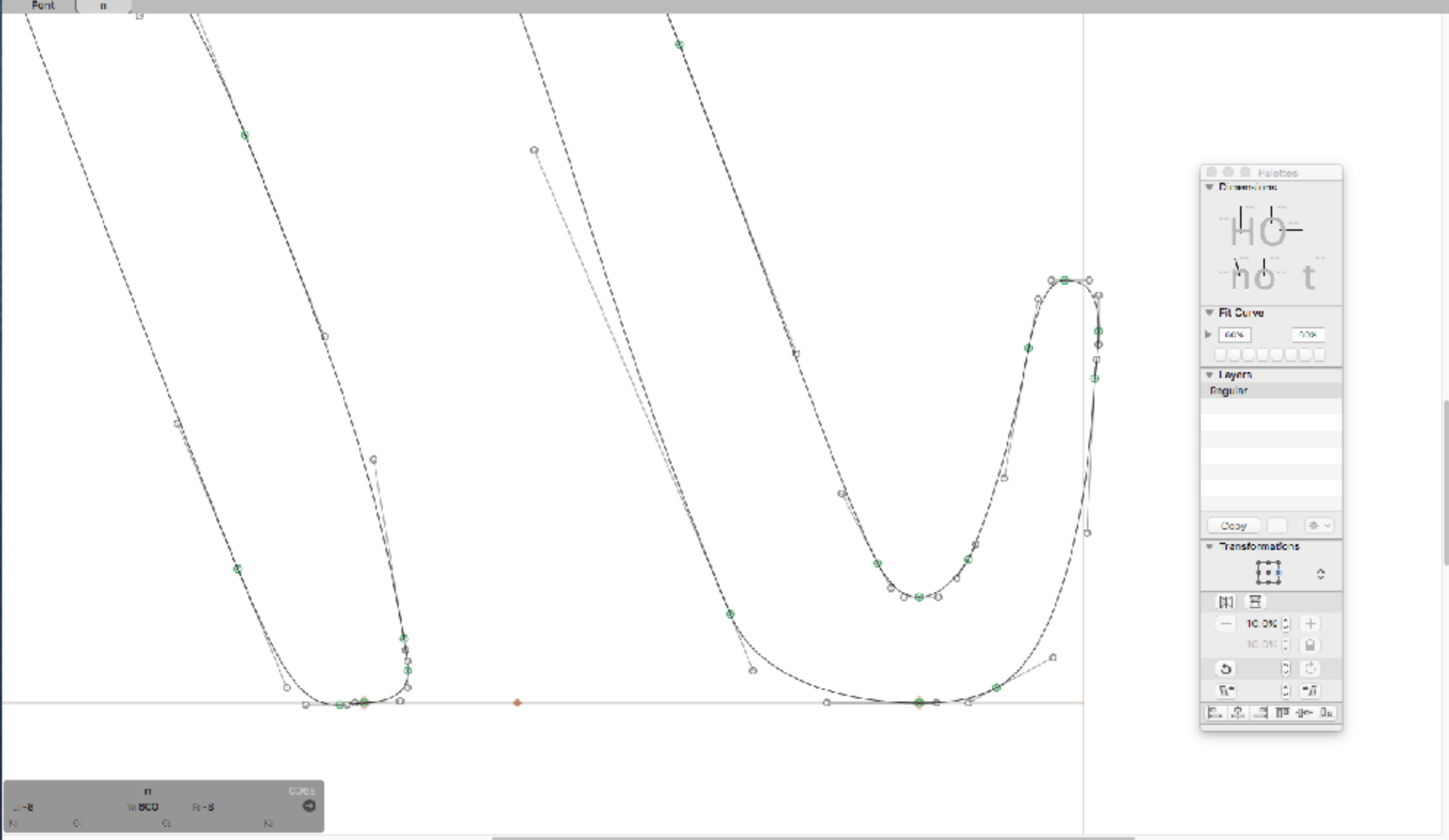
Libraries Appearance Graphic Styles

Layers Artboards

- Layer 2
- Layer 1

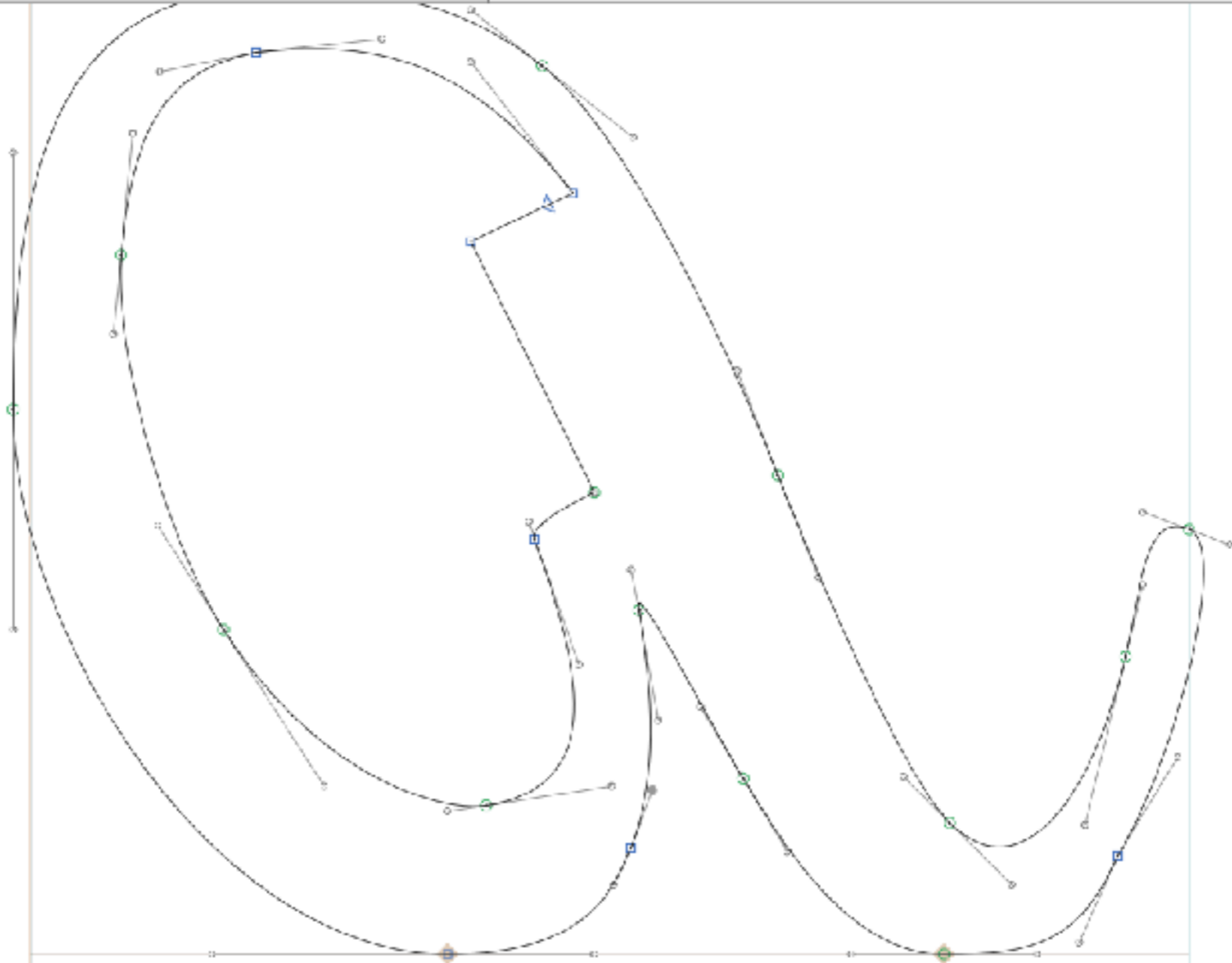






Font

a



▼ Dimensions

HO
ho t

▼ Fit Curve

ans ans

▼ Layers

Regular

Copy

▼ Transformations

10% 10%

10%

10%

Font editor sidebar containing various tool panels: Dimensions (showing character outlines and bounding boxes), Fit Curve (with 'ans' buttons), Layers (showing 'Regular'), Copy, and Transformations (with various icons and percentage inputs).

Kern -8 Kern 922 ax 11

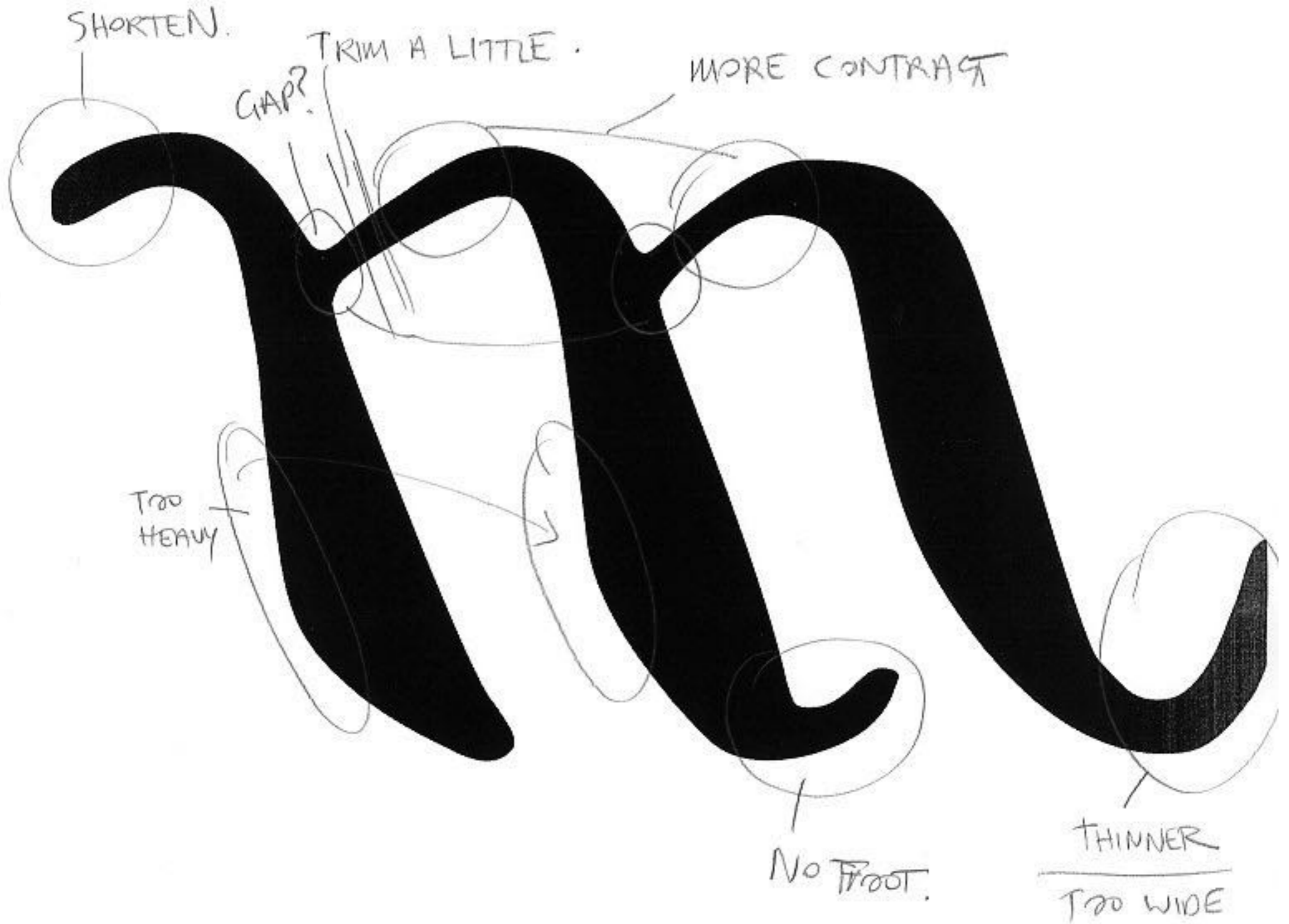
+ CONTRAST



GET RID OF THIS.

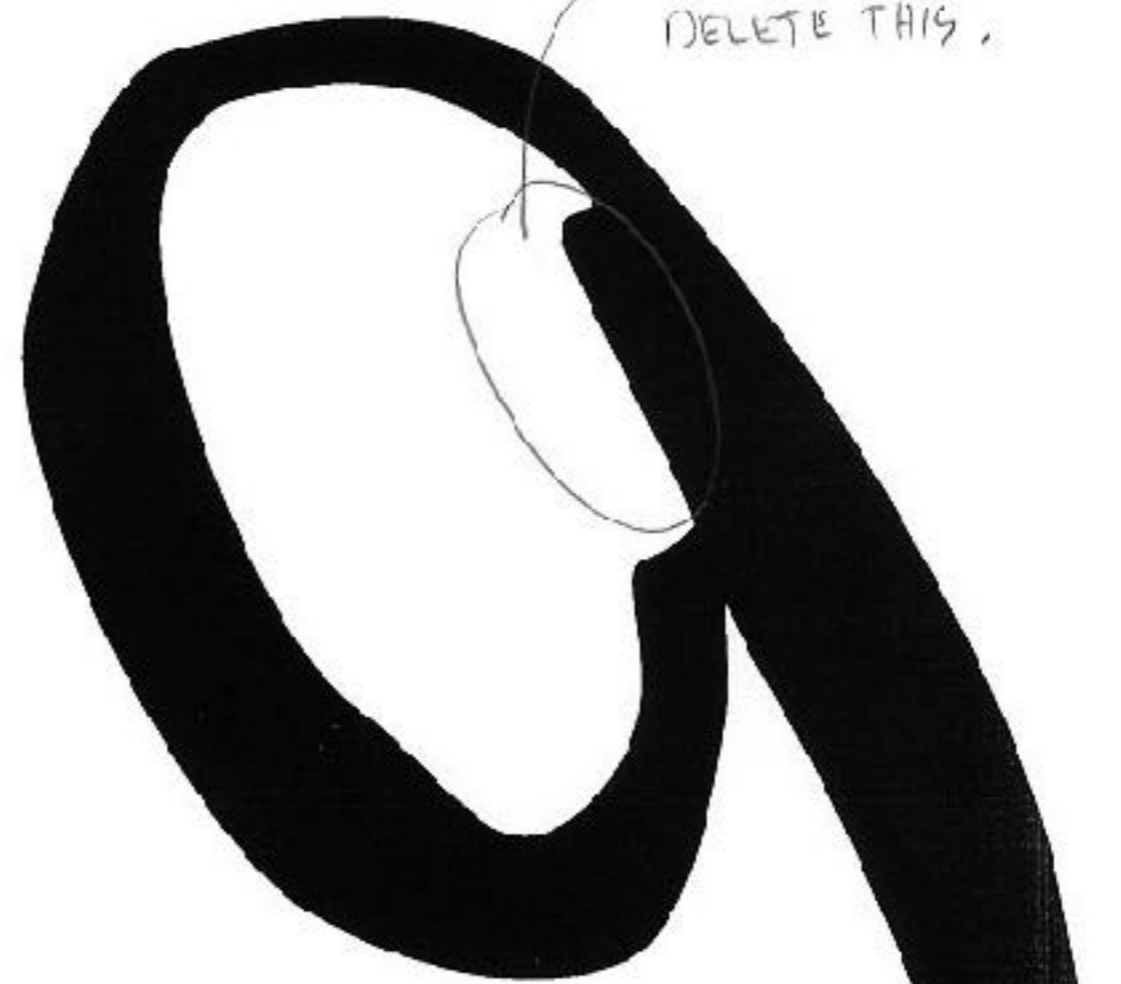
GAP?

TOO HEAVY.



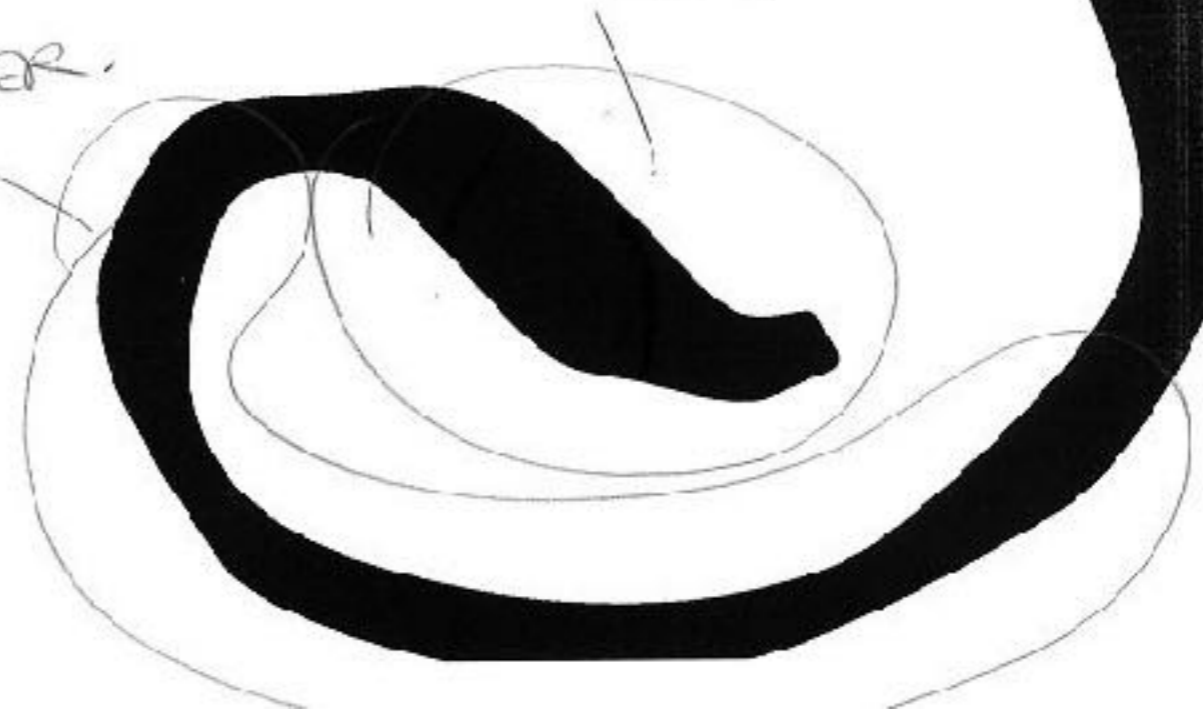
WIDE CONTRAST
OVERALL
THICK AND THIN.

TOO HEAVY
DELETE THIS.



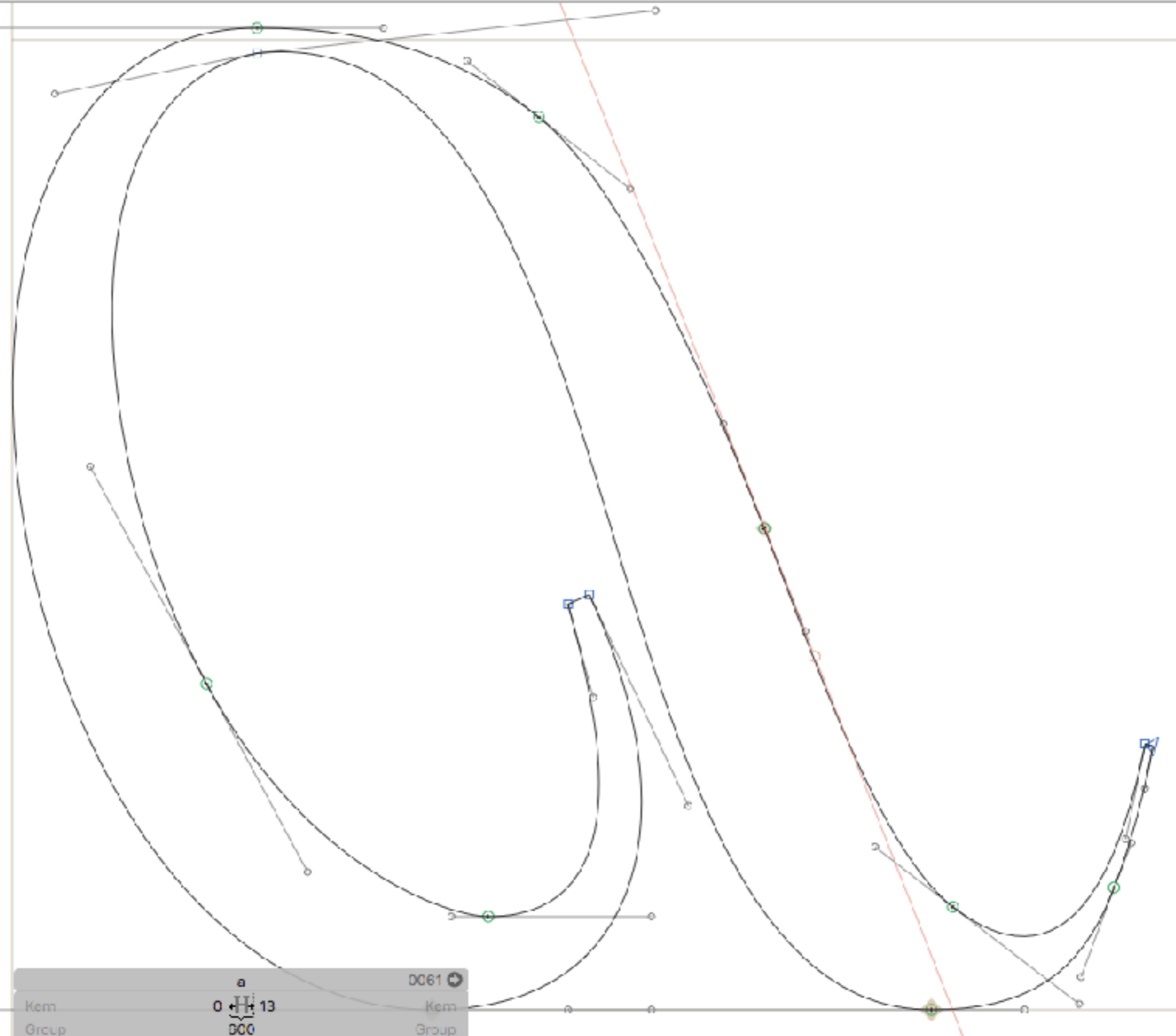
SEE S

THINNER.





ont g e h



0061
Kem Group

a
0 13
300

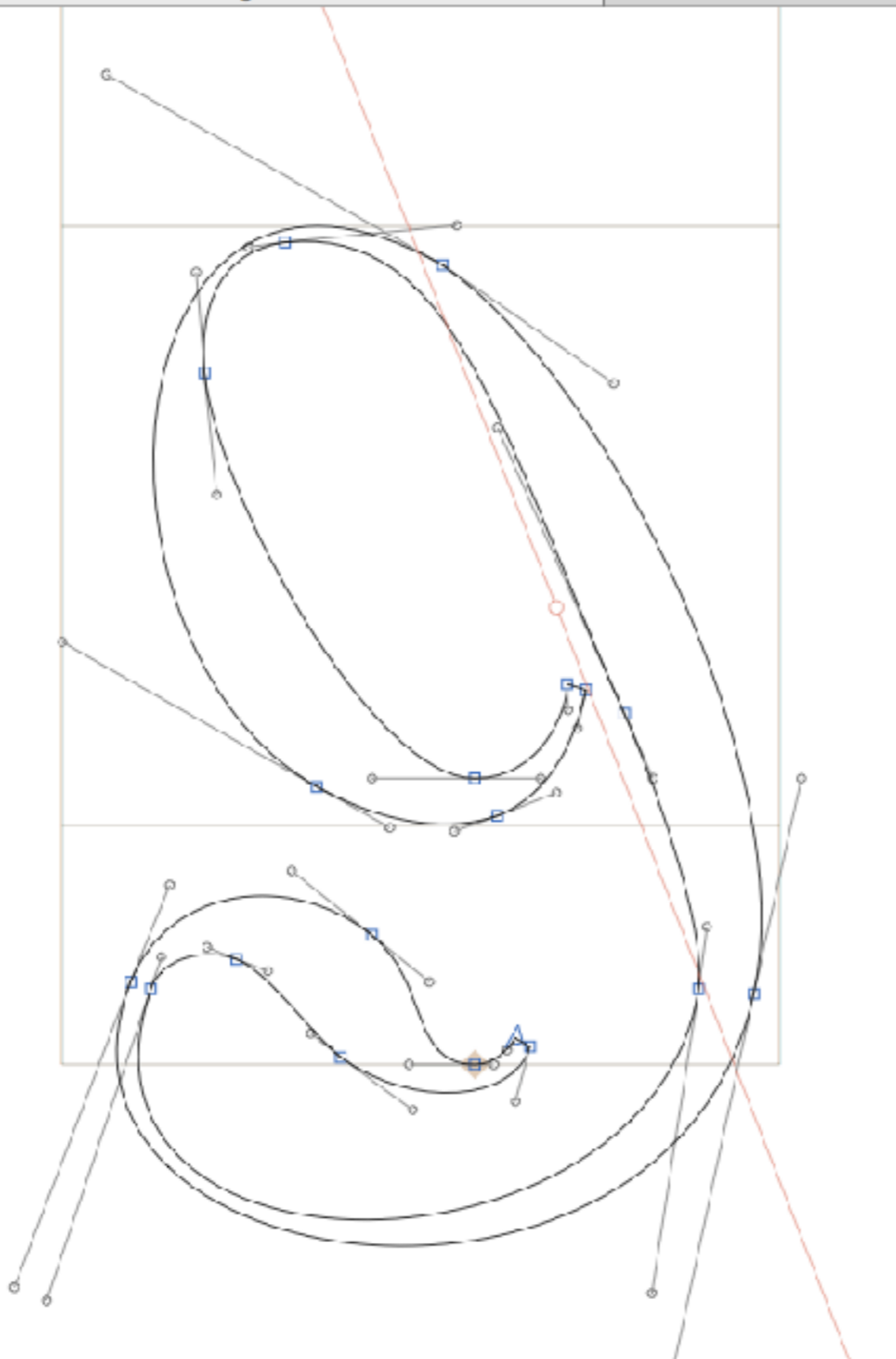
Kem Group



Font

g

e



	g	0067
Kern	45 + 16	Kern
Group	600	Group

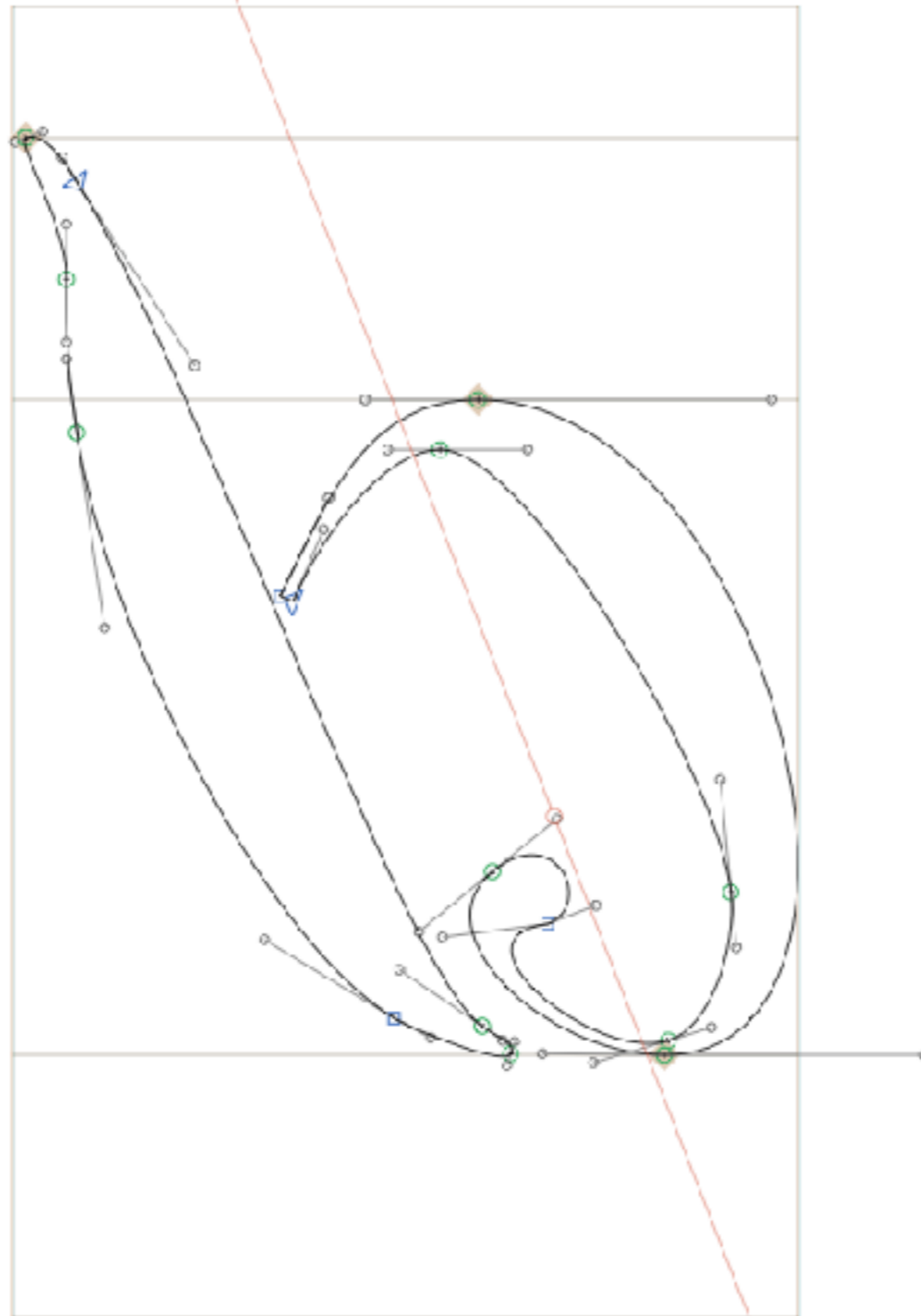


Font

e

n

b



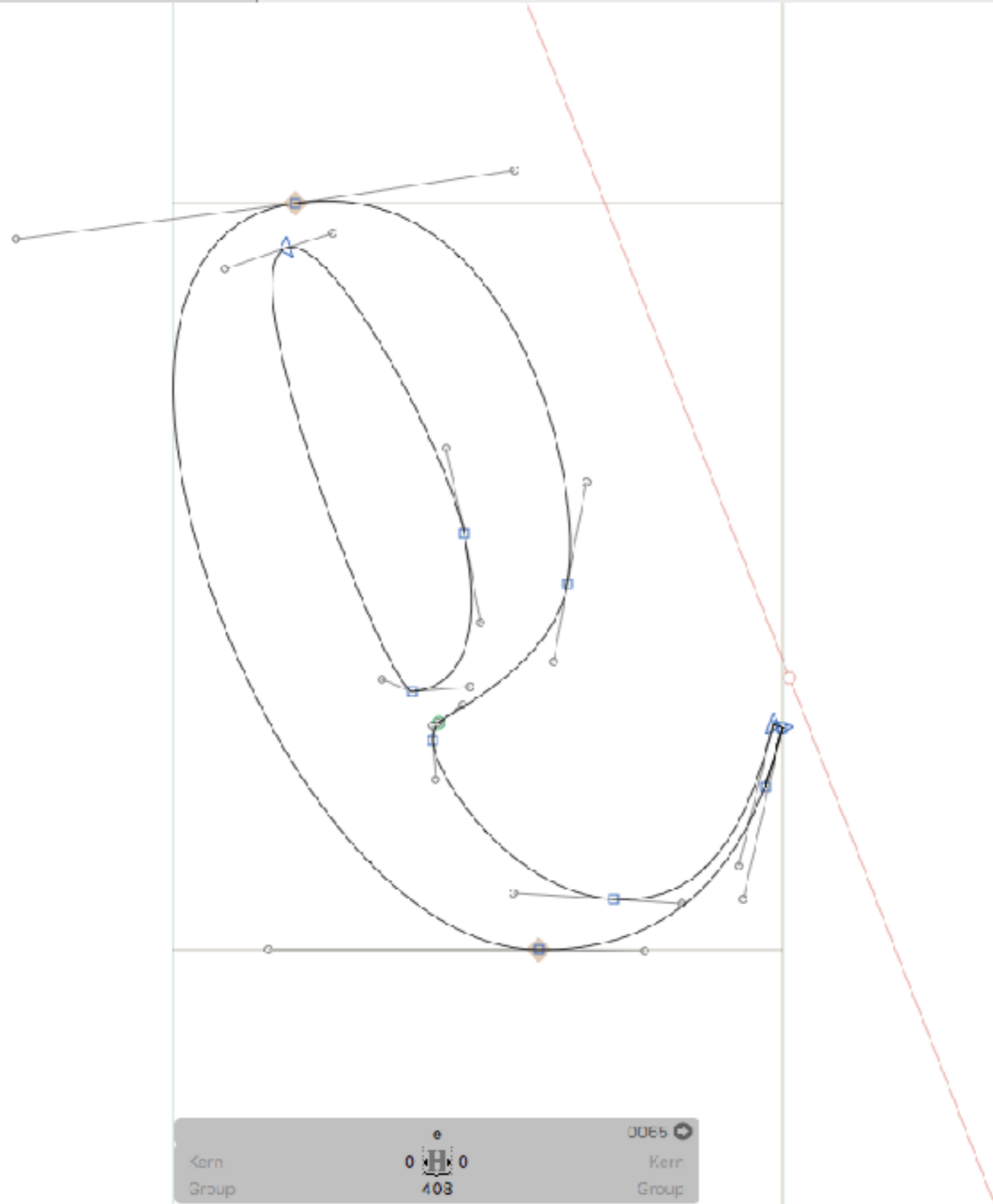
Kern	b	0062
Group	0 <i>H</i> 1 600	Kern Group



Font

e

h



Kern Group 0065 Kern Group
0 *e* 0
403

Shading [Basic Paragraph]+ 1 None 0.166 x: 0 in

Hyphenate

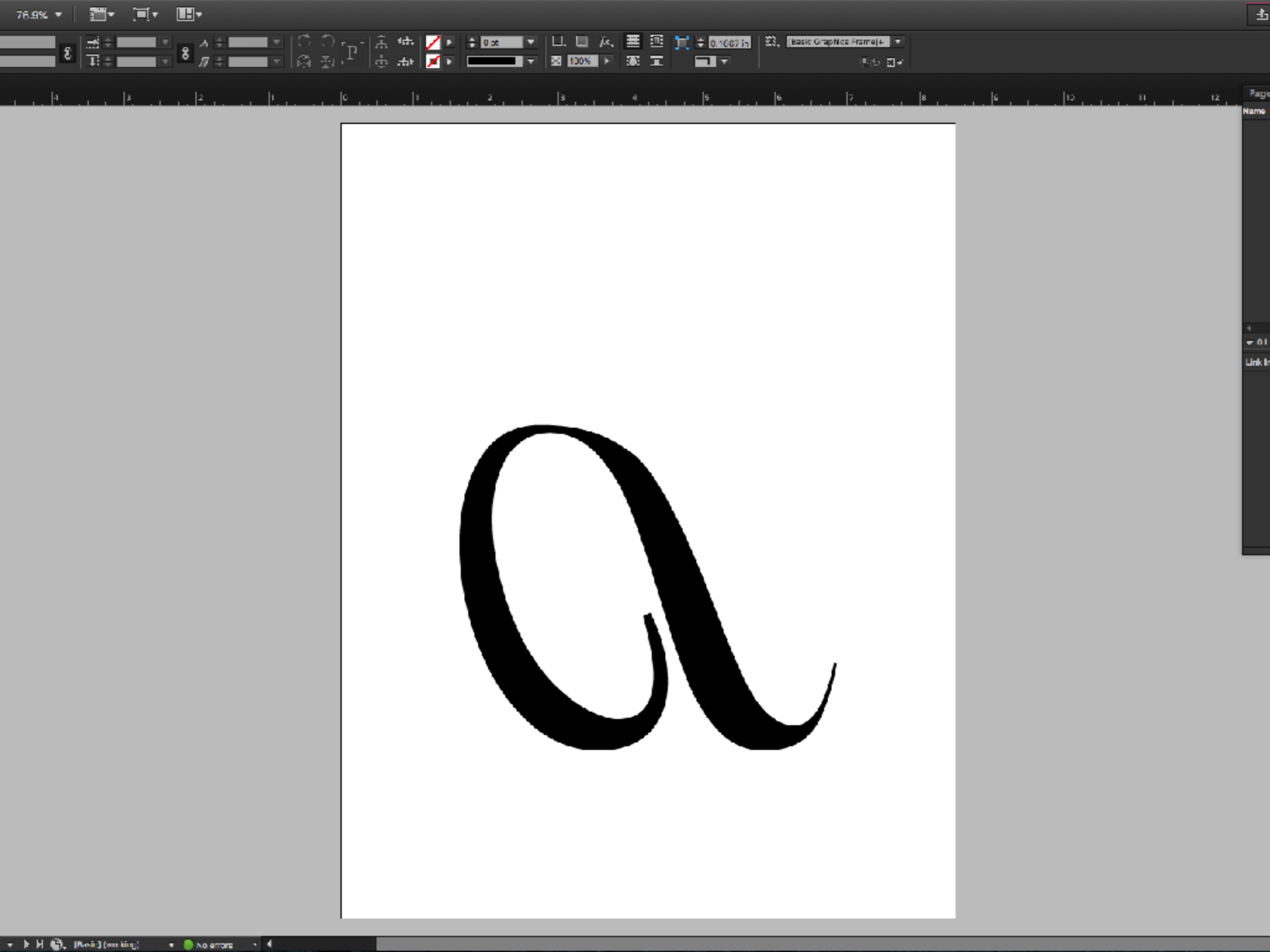
Willison 496 pt TT T²

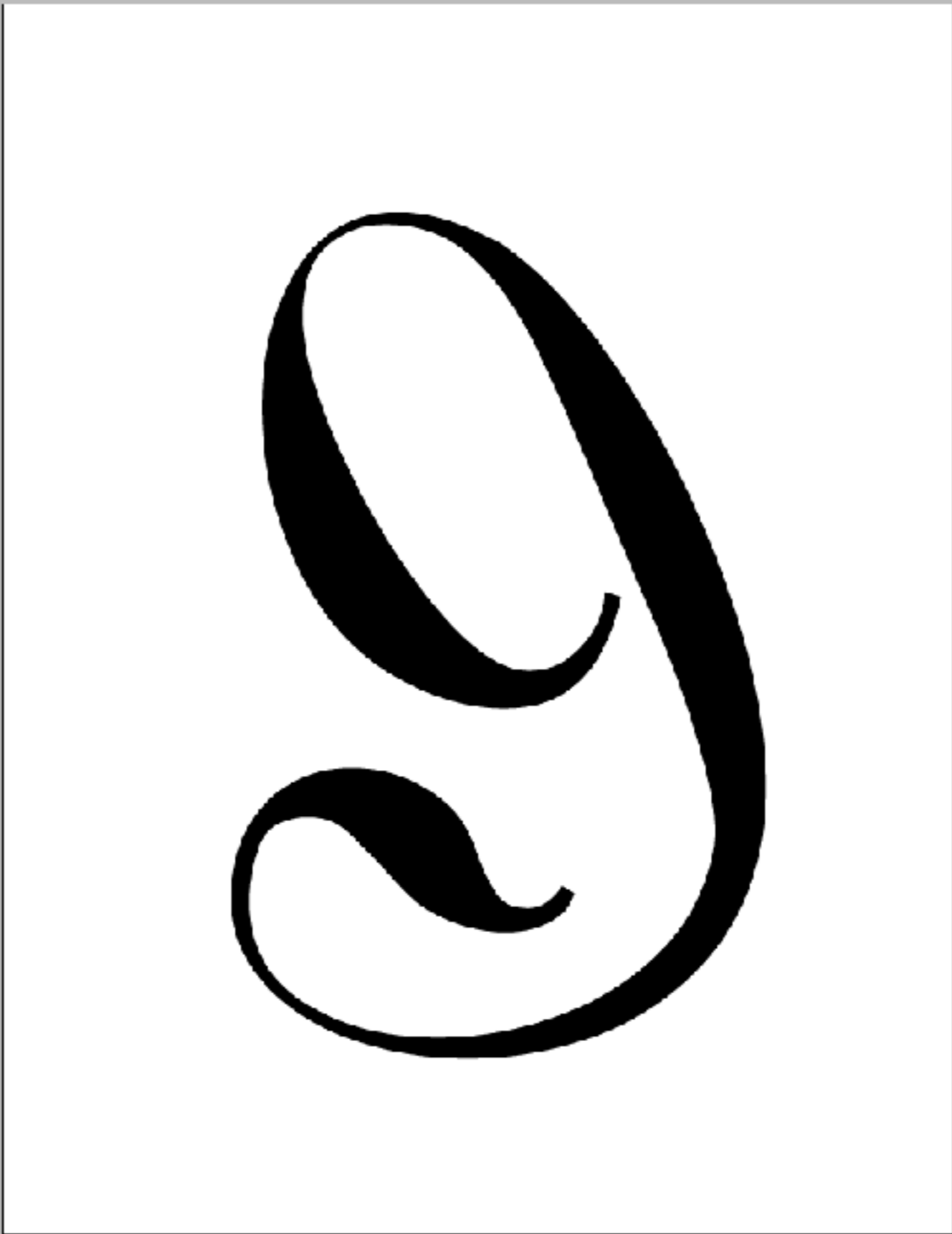
Filter : ★ Tk Add Font

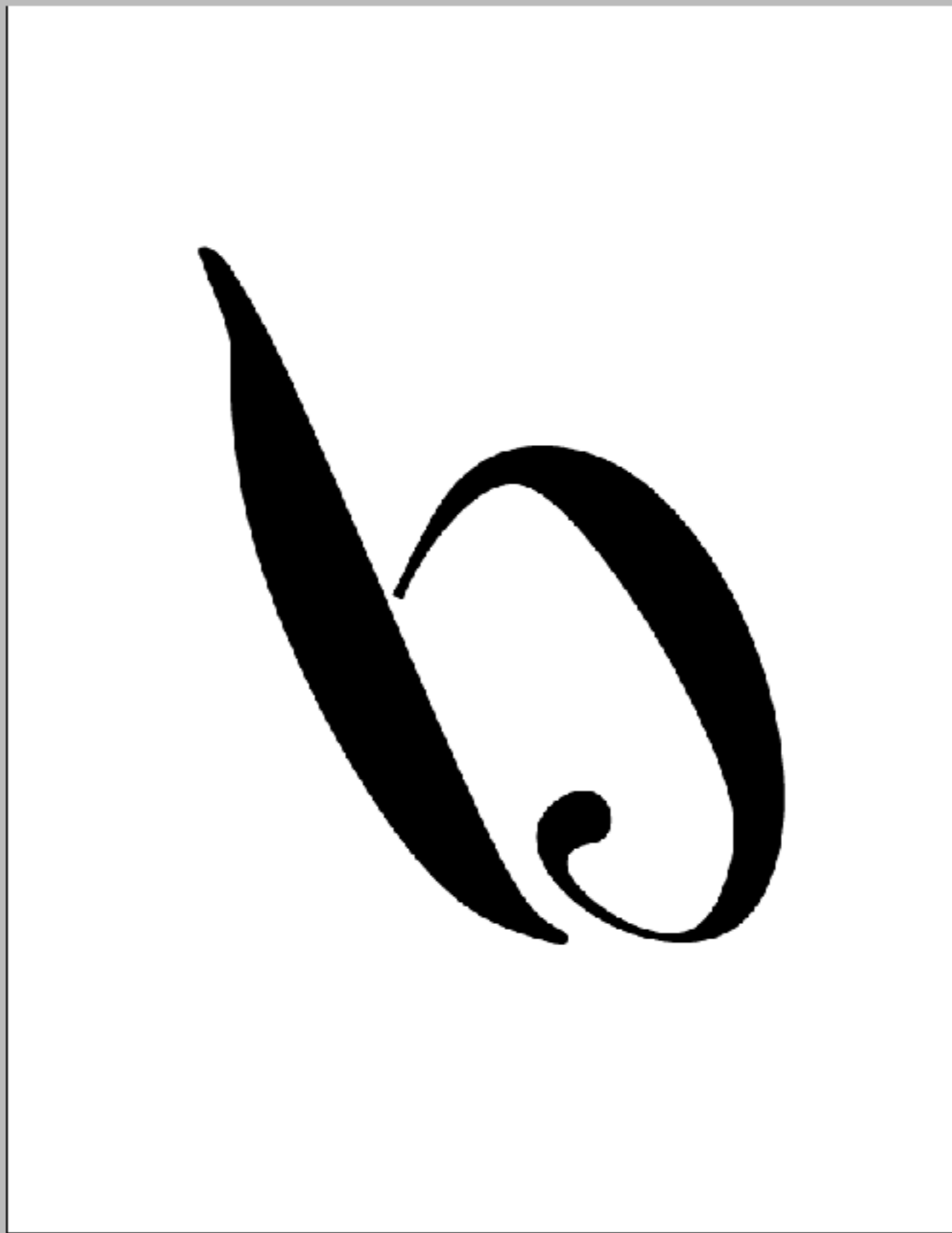
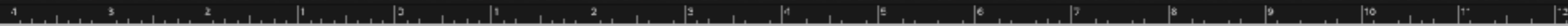
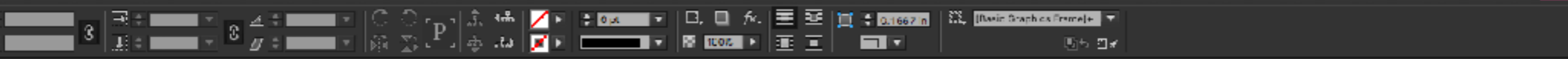
- ☆ Willison O ∞
- ☆ ▶ Minion a Samp
- ☆ ▶ Alegreya SC O SAMP
- ☆ ▶ Avenir a Samp
- ☆ ▶ Gotham HTF a Sample
- ☆ ▶ Gotham Rounded O Sam
- ☆ ▶ Adobe Caslon a ffstc
- ☆ ▶ Gotham Narrow O Samp
- ☆ ▶ Gotham O Sam

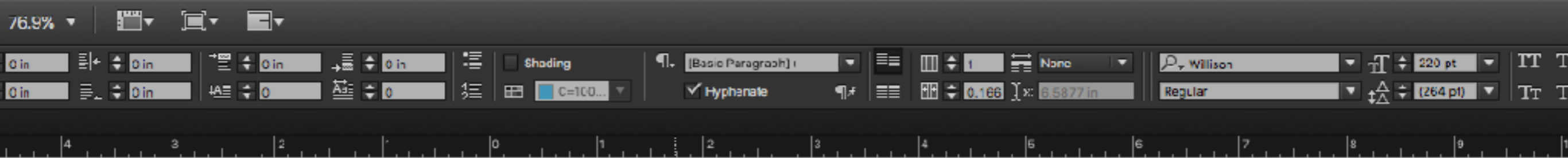
- ☆ ▶ 04b Tt Sam
- ☆ 20th Century a Sam
- ☆ ▶ 399 Missile Tt SAR
- ☆ Aachen a **Sam**
- ☆ Academia S Si a &l
- ☆ Acclam Ital a Sam
- ☆ Acclamation a Sam
- ☆ ▶ Adagio a Samp
- ☆ ▶ Advert a Sam
- ☆ ▶ AdvertRough a **Sam**
- ☆ AEROSPACER™ Tt **SAM**
- ☆ AG Book a Sam
- ☆ ▶ AG Book Rounded a Samp
- ☆ ▶ AG Old Face a Samp
- ☆ ▶ AG Schoolbook a Sam
- ☆ Agenda a Sample
- ☆ Aja a Samp
- ☆ ▶ Akzidenz Grotesk a Samp
- ☆ ▶ Berthold Akzidenz Grotesk a Sample











abge

fin

Willison Master.glyphs - Willison

Font: Willison Master

CATEGORIES

- All
- Letter
- Number
- Punctuation
- Separator
- Symbol
- Mark
- Other

LANGUAGES

- Latin
- Cyrillic
- Greek
- Hebrew
- Arabic
- Chinese
- Japanese
- Hangul
- Indic

Letter, Latin

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y
a	b	c	d	e	f	g	h	i	j	k	l	m	n	o	p	q	r	s	t	u	v	w	x	y

Number

0	1	2	3	4	5	6	7	8	9
zero	one	two	three	four	five	six	seven	eight	nine

Punctuation

.	!	?	,	...	!	?	.	•	*	#	/	\	()	{	}	[]	-	-	—	—	‘	’
period	exclama	colon	semiton	ellipsis	exclama	question	quotation	bullet	asterisk	numb	slash	backslash	par..left	par..ht	bracket..left	bracket..ht	bracket..left	bracket..ht	hyphen	endash	emdash	numb	quotation	quotation

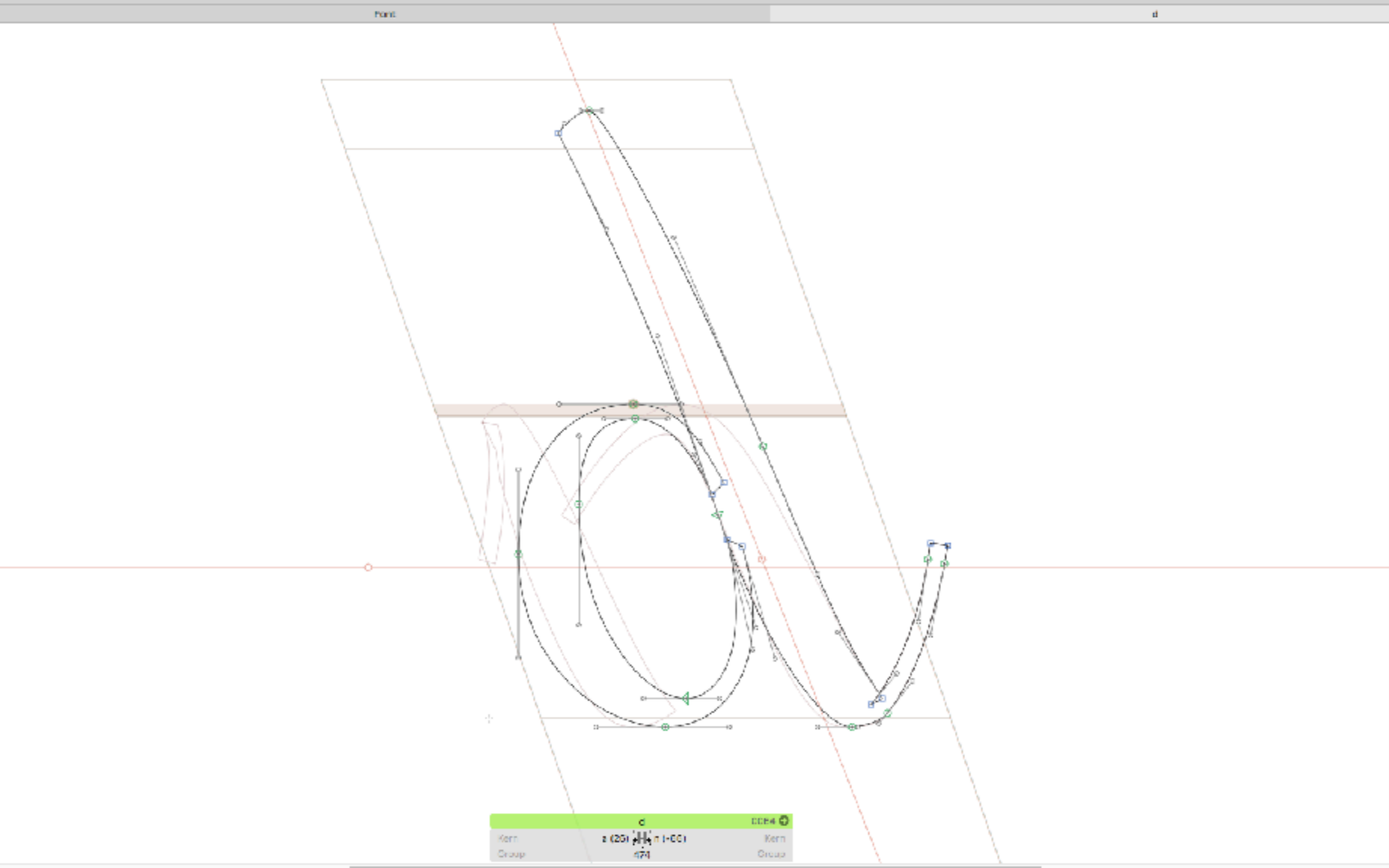
Separator



▼ Glyphs Node
No glyphs selected.

▼ Dimensions

► Hit Curve
► Layers
► Transformations

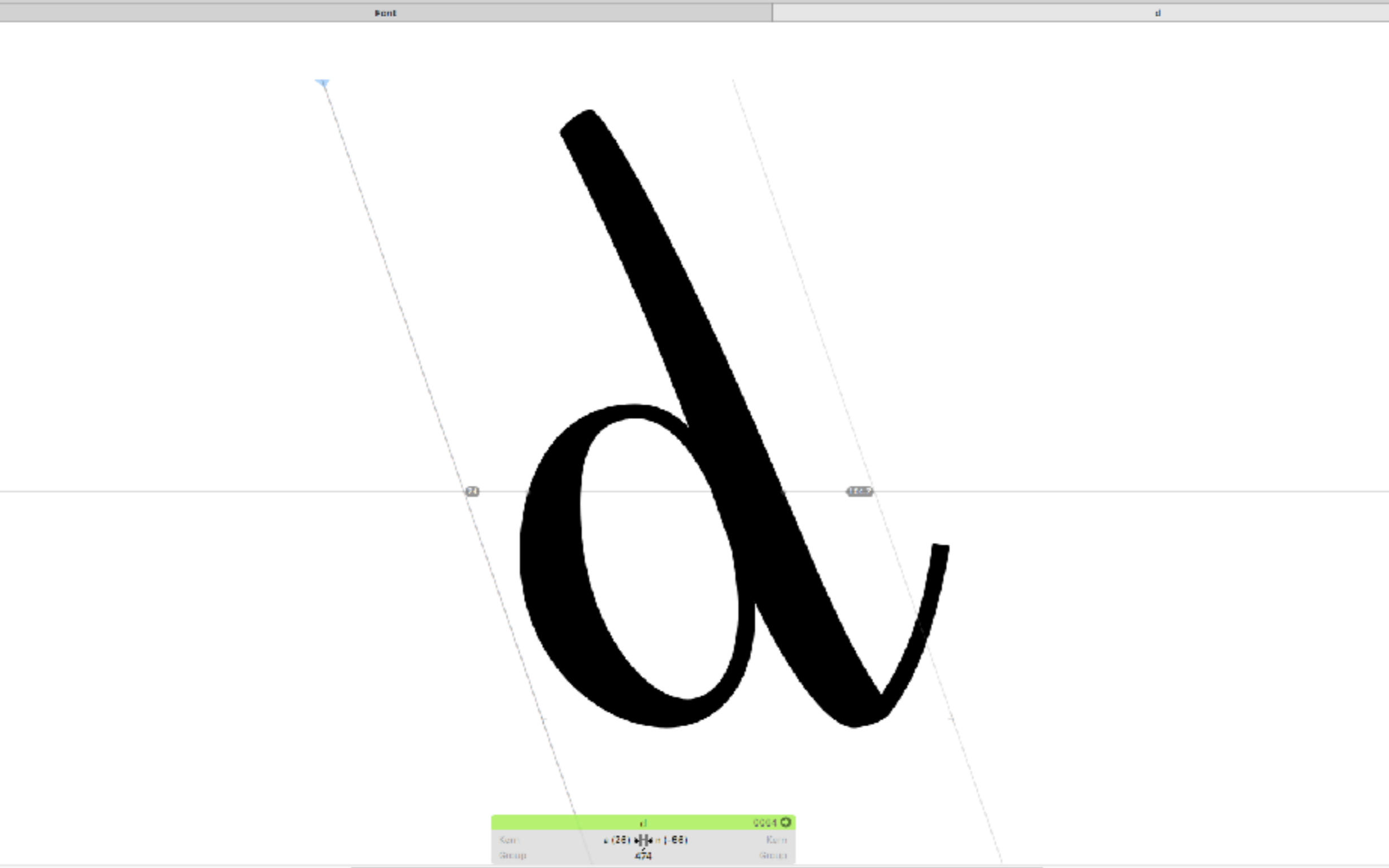


	a	U+0061
Kern	a (25) 1-CC1	Kern
Group	471	Group

▼ Glyph Note
Empty glyph note

▼ Dimensions
HO
ho t

▶ Fit Curve
▶ Layers
▶ Transformations



d 0004
Kern (28) | Kern (65)
Group 474 Group

▼ Glyph Note
Empty glyph note.
▼ Dimensions
HO
h^o t
▶ Fit Curve
▶ Layers
▶ Transformations



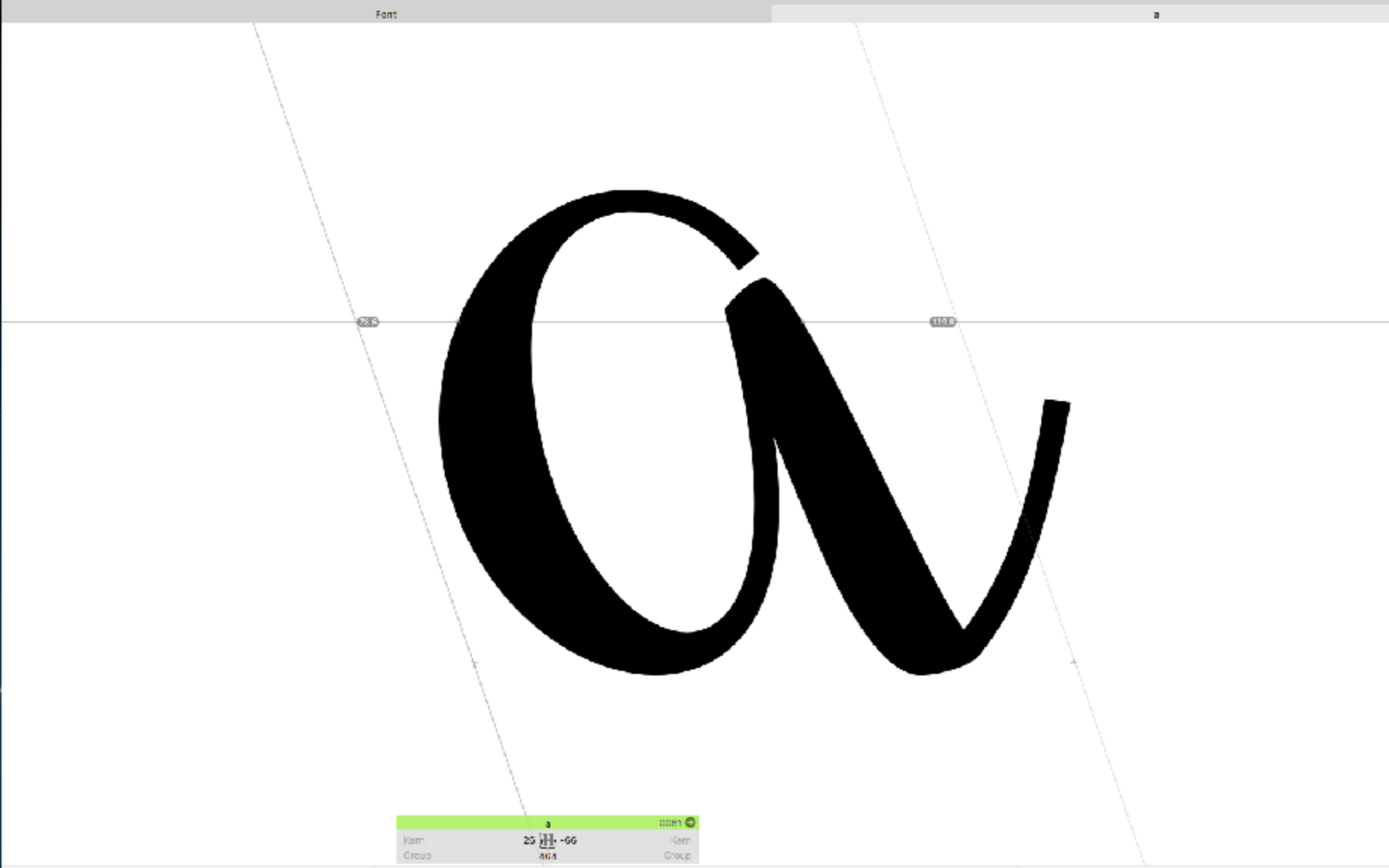
▼ Glyph Note
No glyph selected

▼ Hints view

HO
ho t

► Fit Curve
► Layer
► Transformations

defah

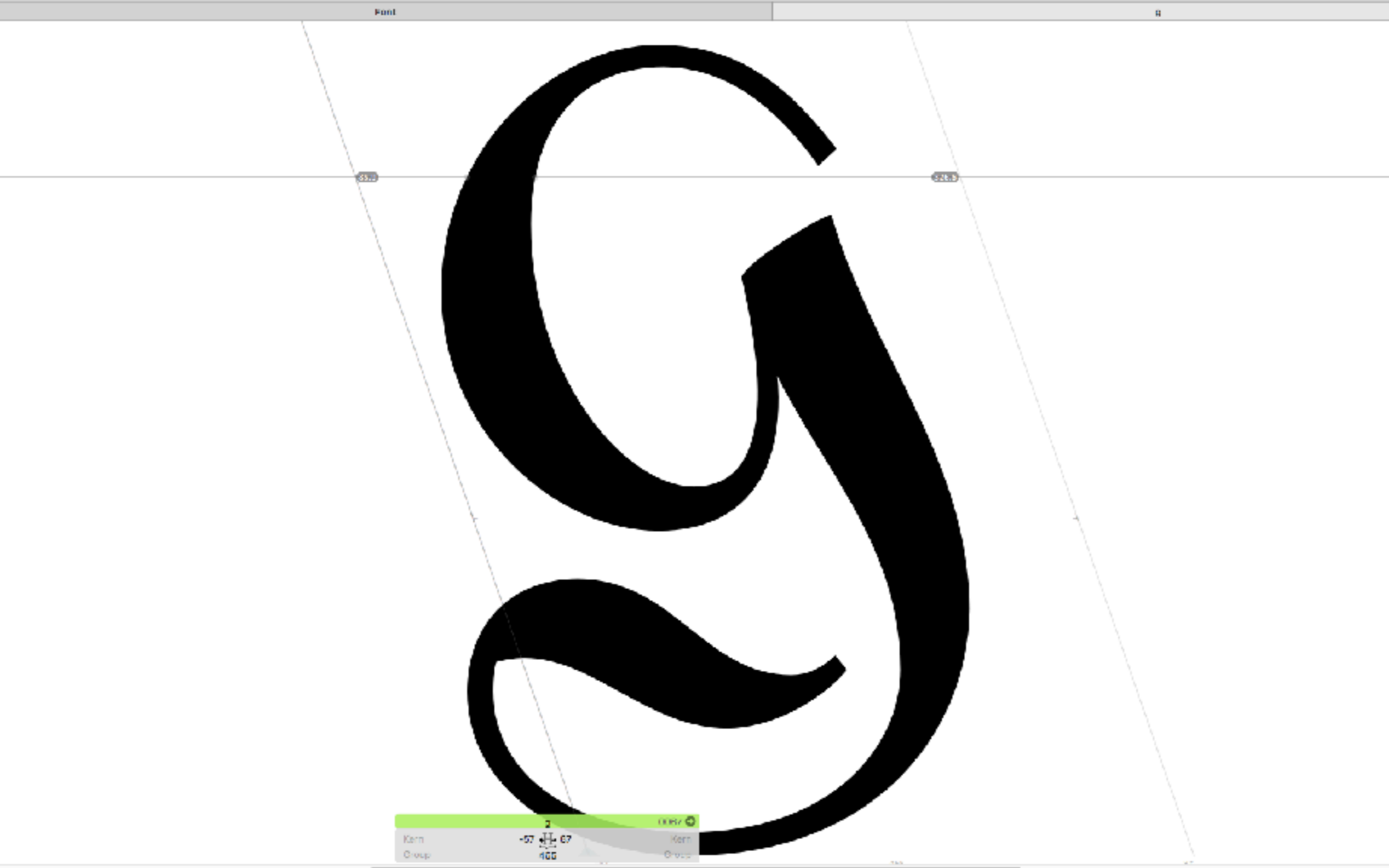


	a	0081
Kern	25	-66
Group	864	Group

▼ Glyph Note
Empty glyph note.

▼ Dimensions

► Fill Curve
► Layers
► Transformations



Kern	2	Kern
Group	-57 67	Group
	100	

Glyph Note

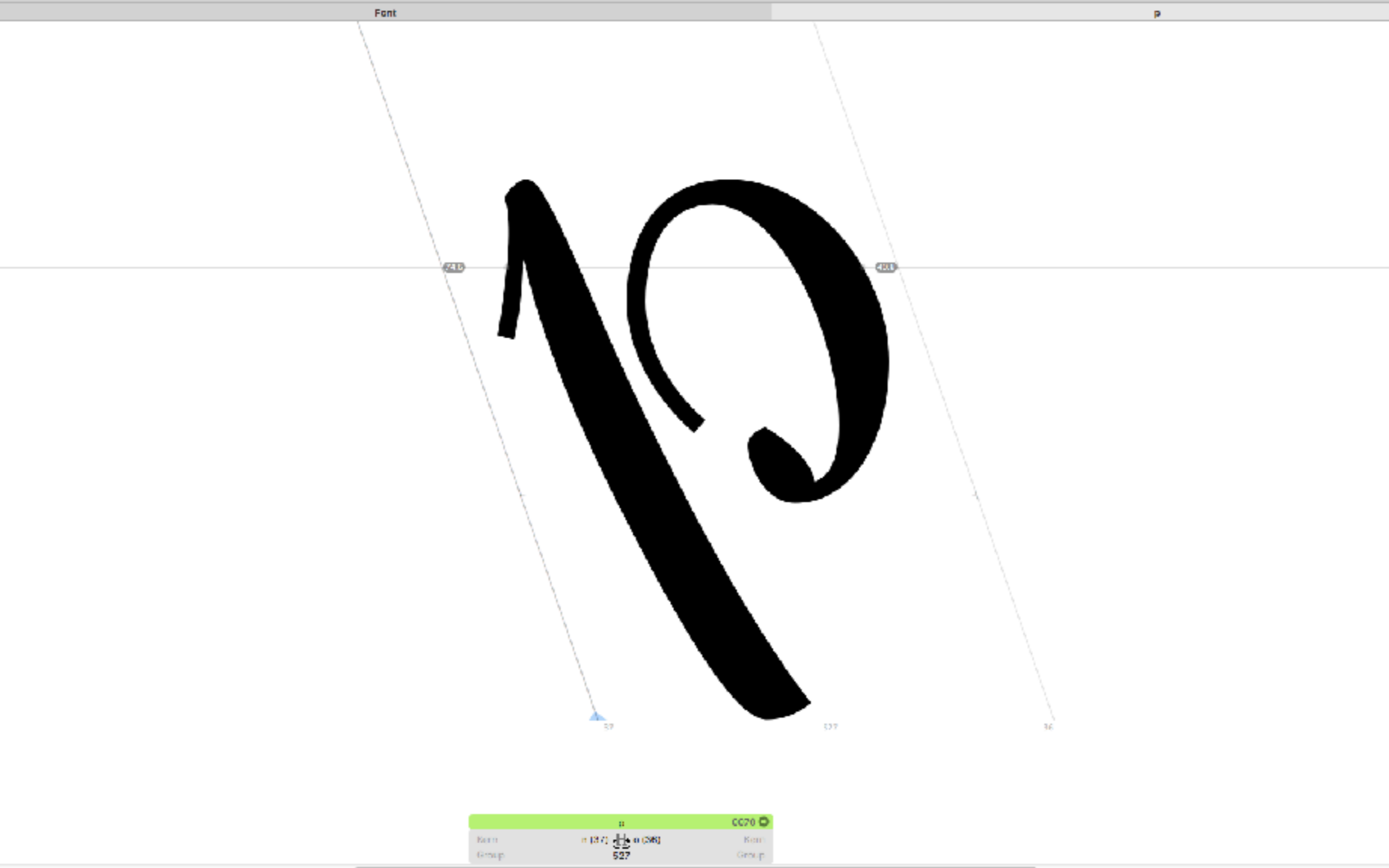
Empty glyph note

Dimensions

Fit Curve

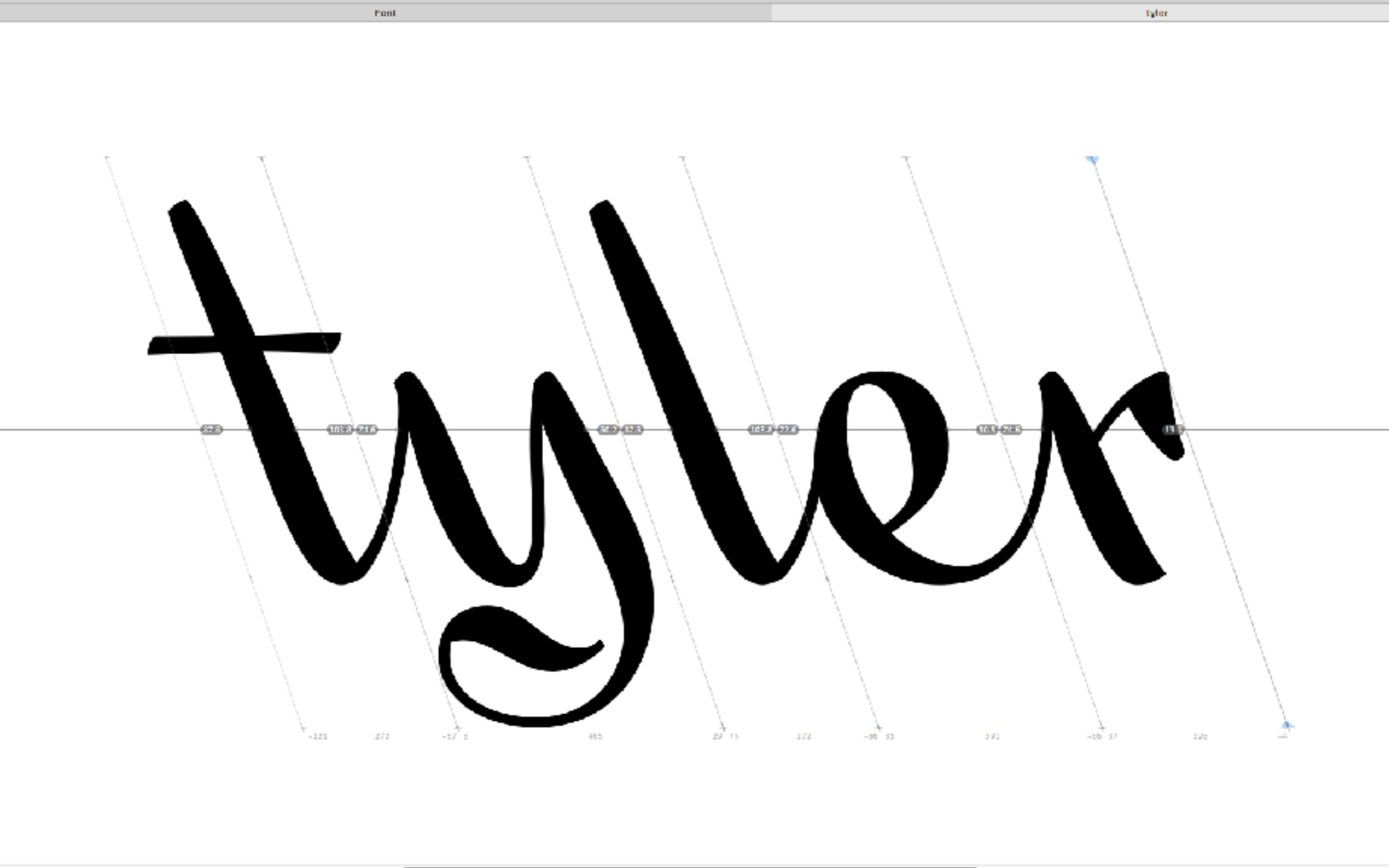
Layers

Transformations



- ▼ Glyph Note
Empty glyph note.
- ▼ Dimensions
HO
HO t
- ▶ Fit Curve
- ▶ Layers
- ▶ Transformations

	u	CC20
Name	u [17] u [26]	u
Group	527	Group



Glyph Note
No glyph selected.

Dimensions

Fit Curve

Layers

Transformations

tyler

Font Wagner

Wagner

▼ Glyph Note
No glyph selected

▼ Dimensions

▶ Fill Color
▶ Layers
▶ Transformations



ative library

enerative

```
../..../Fonts/FreeSans.ttf", 350);
```

```
m text using the loaded font
```

```
VE");
```

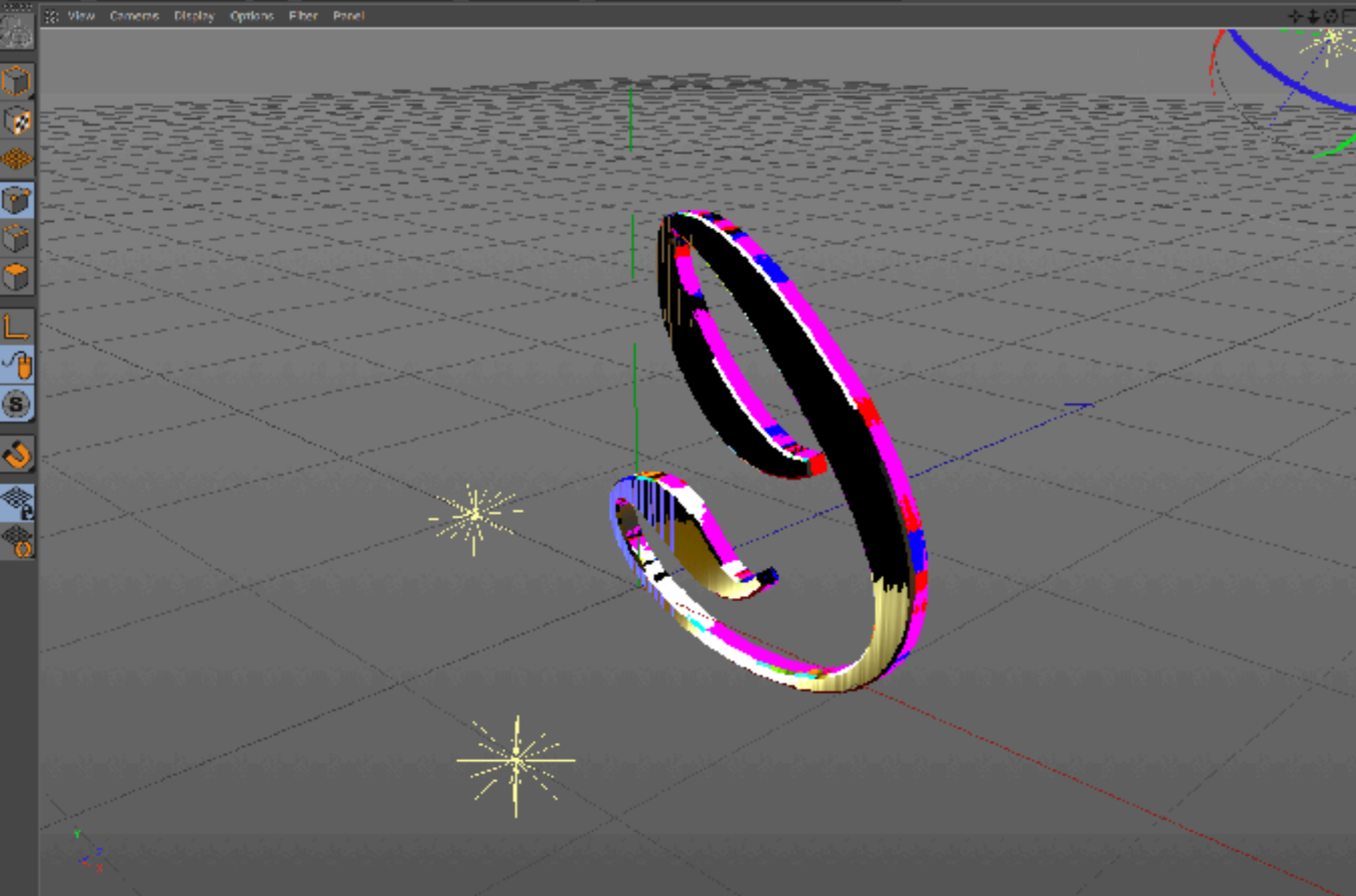
```
he middle of the screen
```

```
- shape.getWidth()/2, height/2 + shape.get
```

```
: point retrieval) settings
```

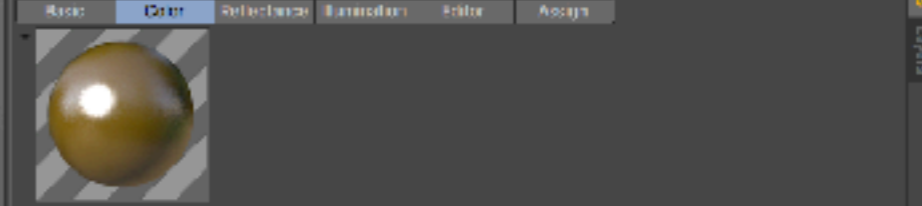
```
RCommand.UNIFORMLENGTH); // use a uniform
```





File Edit View Objects Tags Bookmarks

- Light 2
- Light 1
- Light
- Sky
- Extrude
- Tool



Material [Gold Metal]

Color

Color

H 45°

S 97%

V 88%

Brightness ... 100%

Texture ...

Mix Mode ... Normal

Mix Strength 100%

Mode ... Lambertian

Diffuse Roll-off 0%

Diffuse Layer 100%

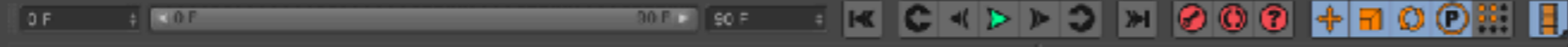
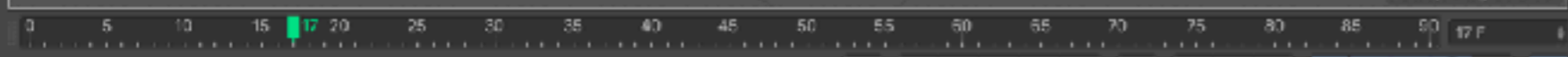
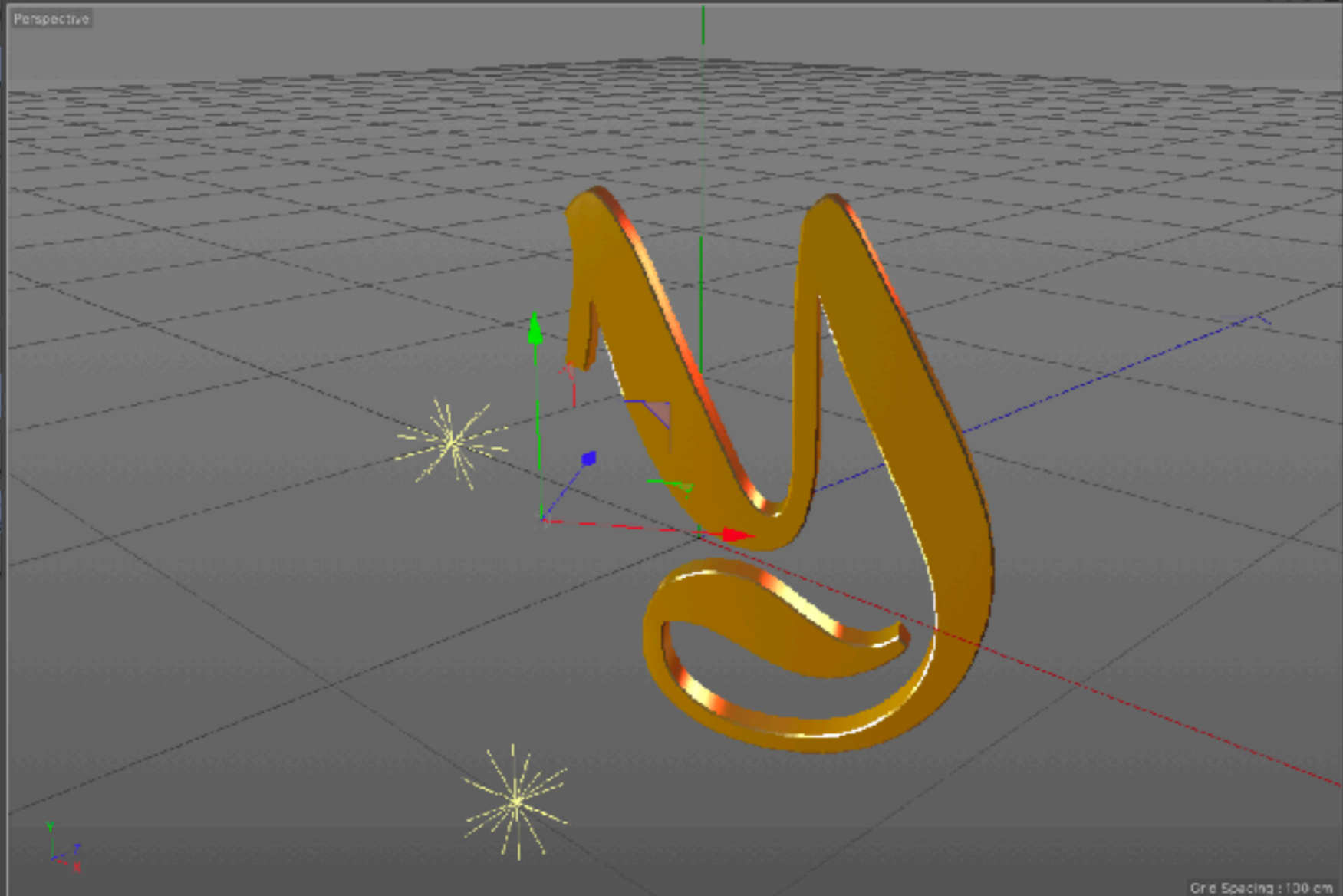
Brightness ... 50%

Create Edit Function Texture

Position Size Rotation

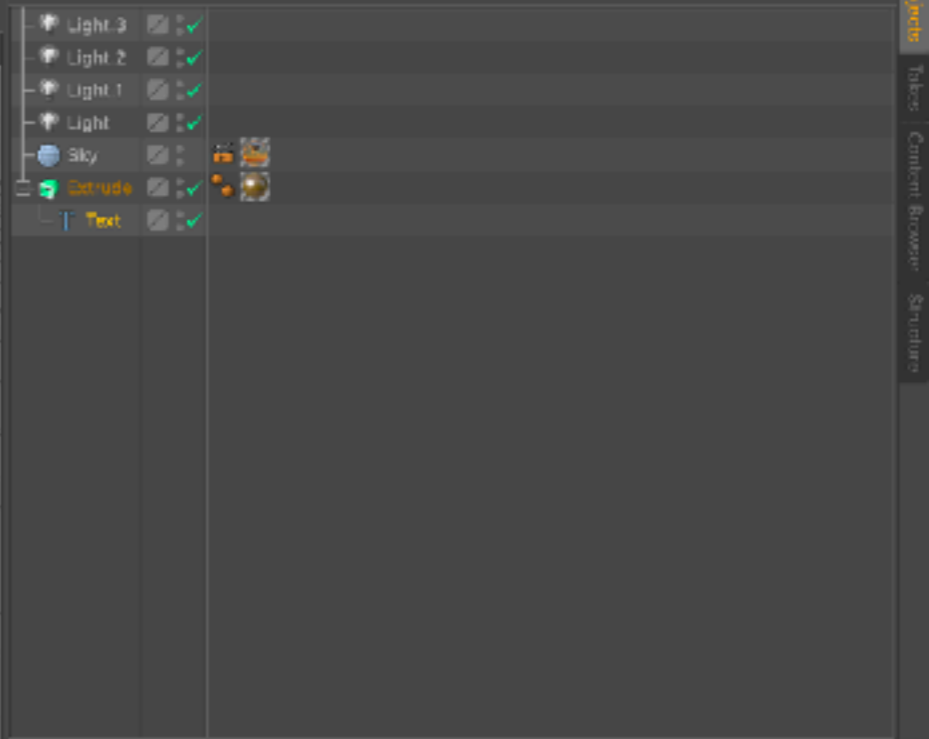
X 0 cm	X 0 cm	H 0°
Y 0 cm	Y 0 cm	P 0°
Z 0 cm	Z 0 cm	R 0°

Object [Ref] Size Apply



Position		Size		Rotation	
X	-31.283 cm	X	31.8 cm	H	1443.064 °
Y	12.232 cm	Y	124.8 cm	P	0 °
Z	-25.075 cm	Z	0 cm	B	0 °

Object: (9x) Size Apply



Text Object [Text]

Object Properties
Text

Font: Wilson9100-V1

Regular

Align: Left

Height: 200 cm

Horizontal Spacing: 0 cm

Vertical Spacing: 0 cm

Separate Letters: [checkbox]

Kerning: Show 3D GM

Plane: XY

Reverse: [checkbox]

Intermediate Points: Adapt

Number: 8

Angle: 5 °

Maximum Length: 5 cm

Wagner



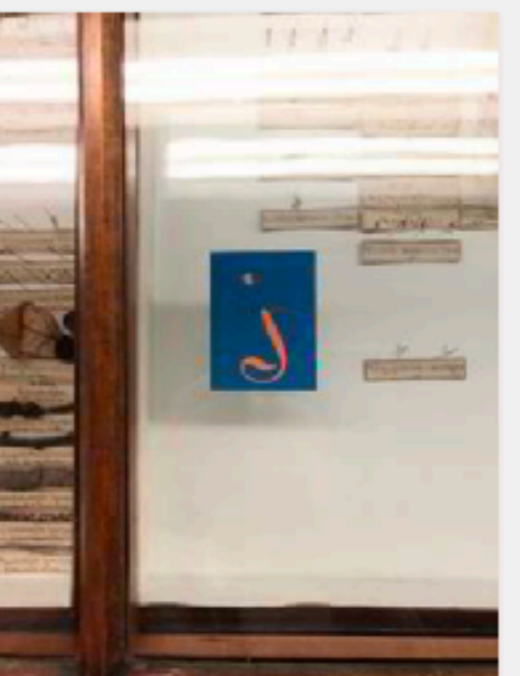
RECOGNITION SPEED: ★★★★★
VIEWS: 0
wagner_LW
OCT 10, 2019 - 11:24 PM



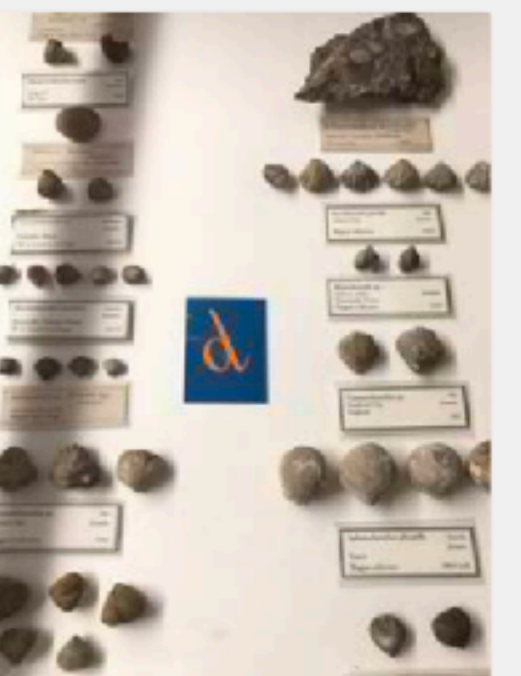
RECOGNITION SPEED: ★★★★★
VIEWS: 0
wagner_LS
OCT 10, 2019 - 11:23 PM



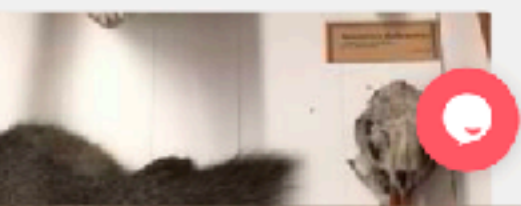
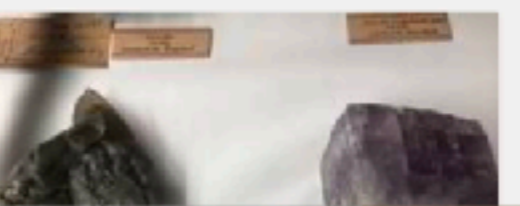
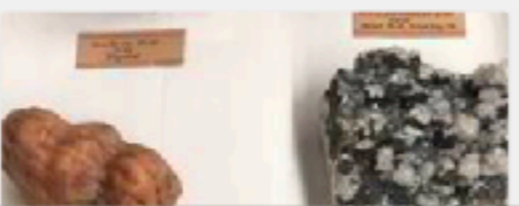
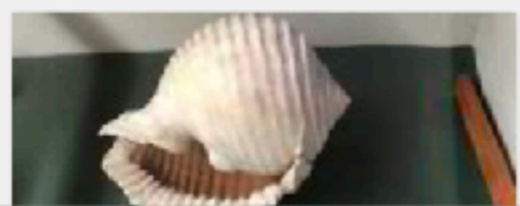
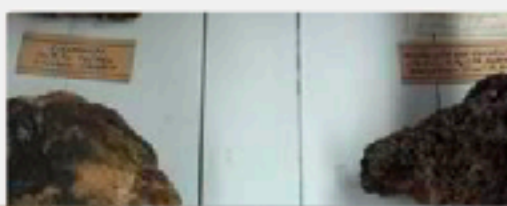
RECOGNITION SPEED: ★★★★★
VIEWS: 0
wagner_LJ
OCT 10, 2019 - 11:19 PM



RECOGNITION SPEED: ★★☆☆☆
VIEWS: 0
wagner_LJ
OCT 10, 2019 - 11:17 PM



RECOGNITION SPEED: ★★★★★
VIEWS: 0
wagner_Ld
OCT 10, 2019 - 11:15 PM





thanks