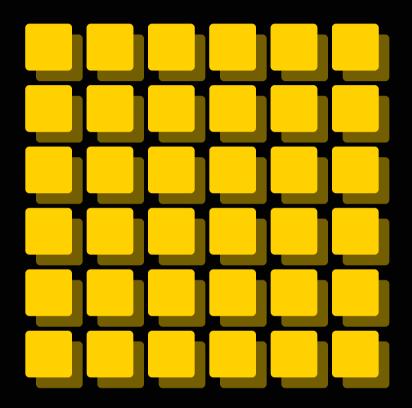
GENERATIVE TYPOGRAPHY

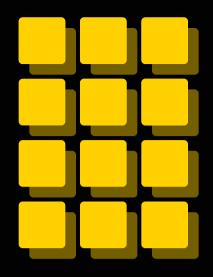


A TYPOGRAPHIC MANUAL

INTRODUCTION

l - GOTHGAN TYPE





THIS TYPOGRAPHIC MANUAL AIMS TO REFLECT ON THE COLLABORATION BETWEEN HUMANS AND MACHINES TO SOLVE CREATIVE TASKS.

THE PROCESS OF USING AI FOR A CREATIVE PROJECT INVOLVES BOTH PASSIVE AND ACTIVE PARTICIPATION FROM THE USER. THE PASSIVE PART INVOLVES UTILIZING THE AI TO GENERATE RESULTS AND IDEAS, THEREFORE REMOVING THE NEED FOR HUMAN CREATIVE WORK ON THE SURFACE LEVEL. HOWEVER, THE ACTIVE ROLE INVOLVES CREATING AND DESIGNING THE AI ITSELF, WHICH REQUIRES A SIGNIFICANT AMOUNT OF CREATIVE THOUGHT AND EFFORT.

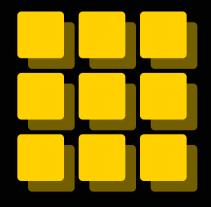
BY DOING SO WE ACHIEVE A KIND OF META-CREATIVITY: WE USE CREATIVITY TO FIND A WAY TO SOLVE A CREATIVE PROBLEM.

E - IKOGAN TYPE



ALL GLYPHS IN THIS MANUAL WERE CREATED BY AN ARTIFICIAL INTELLIGENCE AND REWORKED BY HAND.

EVEN THOUGH MANY GLYPHS ARE NOT LEGIBLE, THE MODEL STILL PROVIDES A CONSISTENT STYLE OVER THE ENTIRE ALPHABET WHICH CAN BE USED AS INSPIRATION FOR THE TYPOGRAPHER.

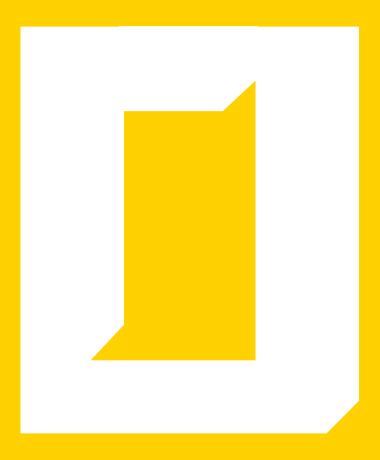


B - GOTHGAN TYPF

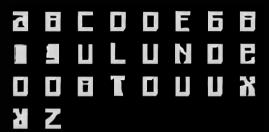


GENERATED FONTS

O - SQUAREGAN TYPE



SQUAREGAN TYPE



GOTHGAN TYPE



IKOGAN TYPE



70NF - KATOGAN TYPF

INDOGAN TYPE



COMIGAN TYPE

Z B C O D F 6 B I J J L U N O P O O 6 T O V V X Y Z

ITALIGAN TYPE

JULIA - COMIGAN TYPE

JULIa

INDUSTIGAN TYPE

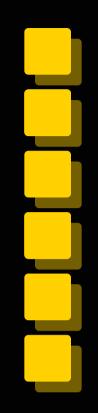


KATOGAN TYPE



PIXGAN TYPE





FOX - PIXGAN TYPE



PROCESS

N - SOUARFGAN TYPF



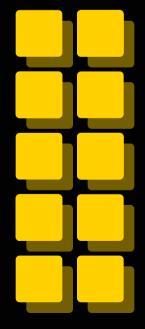
TO GENERATE THE GLYPHS A SO CALLED "GENERATIVE ADVERSARIAL NETWORK" (GAN) WAS USED AS PROPOSED BY HAYASHI ET AL.1 IN 2019

A GAN CONSISTS OF TWO NEURAL NETWORKS: THE "GENERATOR" AND THE "DISCRIMINATOR".

THE GENERATOR LEARNS TO PRODUCE 64x64 IMAGES CONTAINING GLPHYS AND THE DISCRIMINATOR LEARNS TO DIFFERENTIATE BETWEEN GENERATED AND "REAL" GLYPHS, THAT HAVE BEEN CREATED BY HUMANS. THE GOAL OF THE DISCRIMINATOR WITH REALISTIC IMAGES, AND THE GOAL OF THE DISCRIMINATOR IS TO PERFECTLY CLASSIFY FAKE AND REAL IMAGES. THIS WILL FORCE THE GENERATOR TO PRODUCTE NEW, UNSEEN GLYPHS.

THE GENERATED IMAGES ARE THEN FURTHER PROCESSED.

THE CODE FOR THIS PROJECT CAN BE FOUND ON GITHUB².



¹ GlyphGAN: Style-Consistent Font Generation Based on Generative Adversarial Networks, Hideaki Hayashi, Kohtaro Abe, Seiichi Uchida, 2019

² https://github.com/theopfr/font-generation-gan

C - IKOGAN TYPF



ORIGINAL



REWORKED



ORIGINAL



REWORKED



ORIGINAL



REWORKED

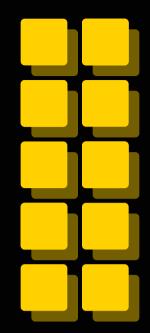


ORIGINAL



REWORKED





F - COMIGAN TYPE



