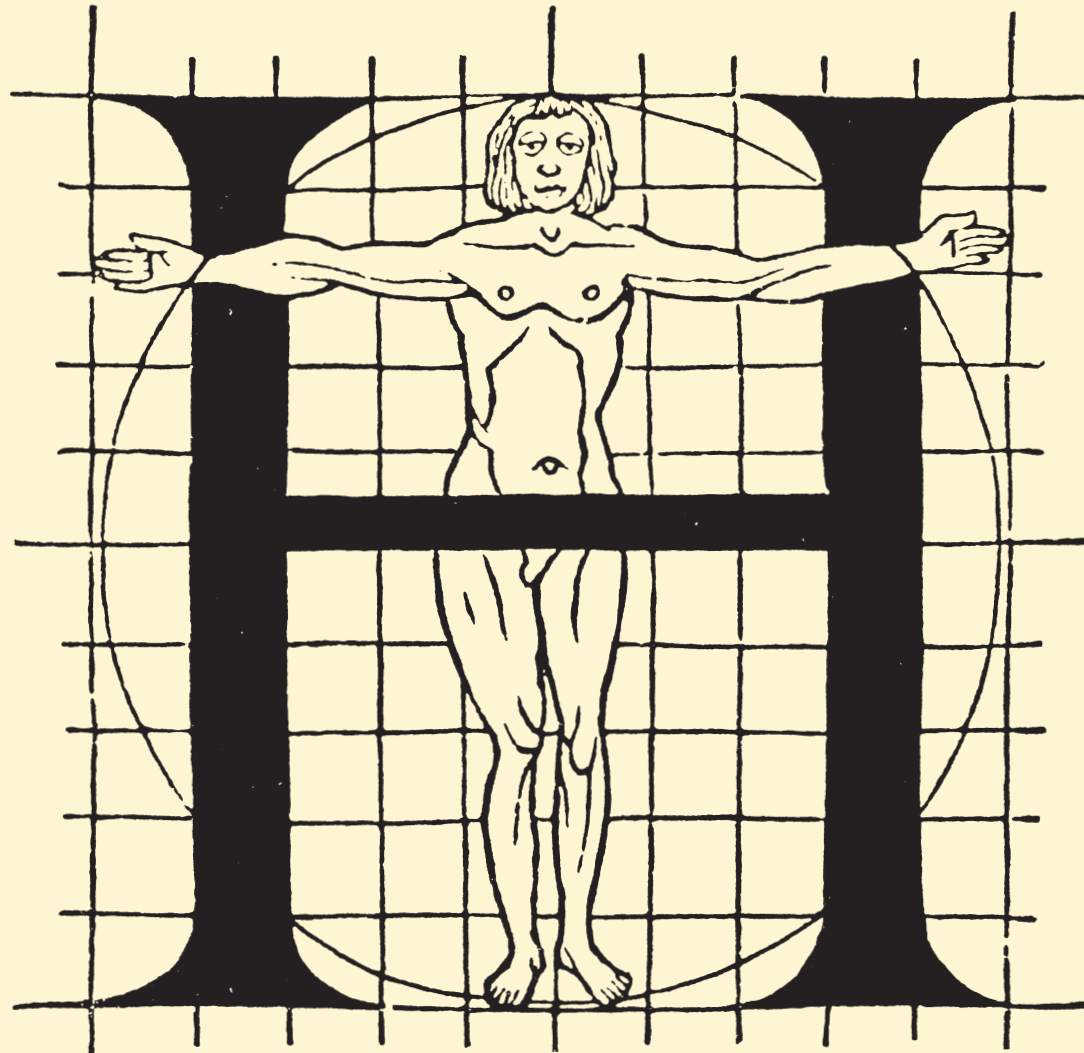
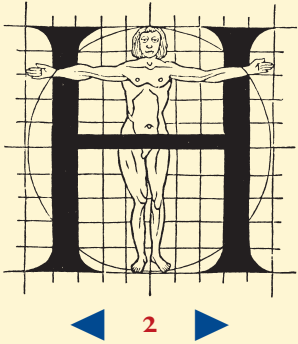




- ▶ Introduction
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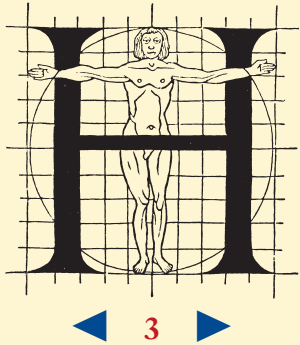


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‘Instead of imagining that our main task is to instruct a computer what to do, let us concentrate rather on explaining to human beings what we want a computer to do.’

Donald Knuth



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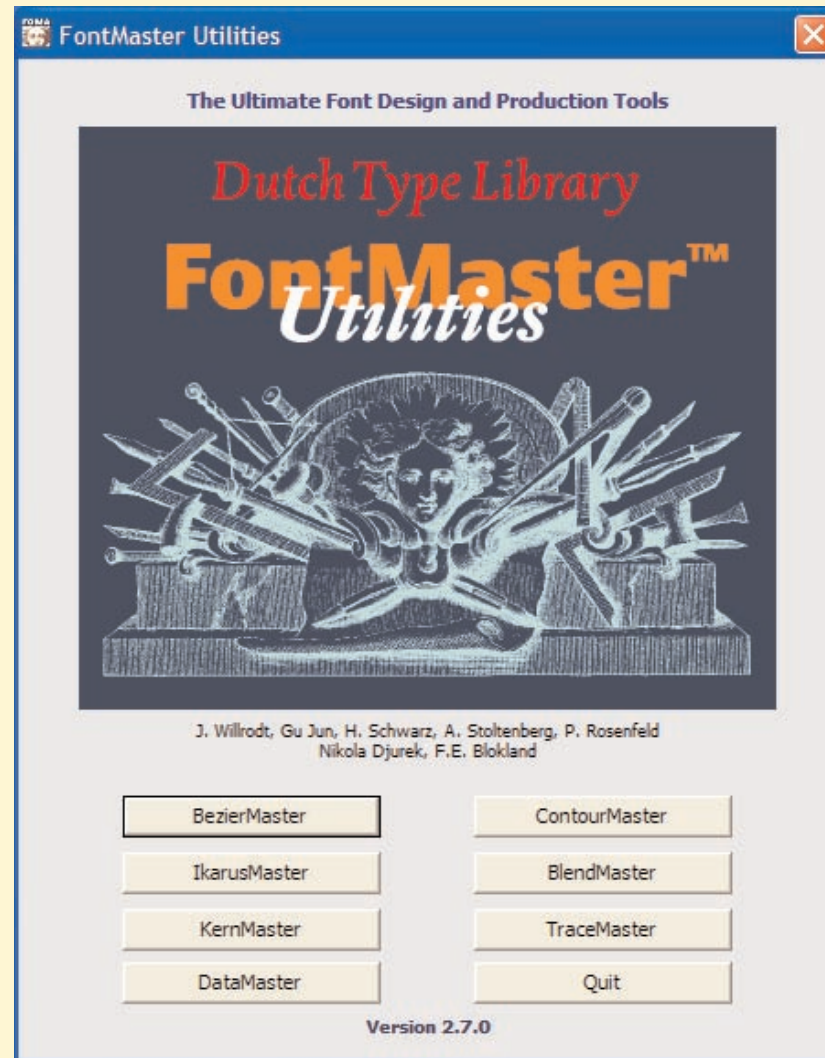
▶ Harmonic Systems

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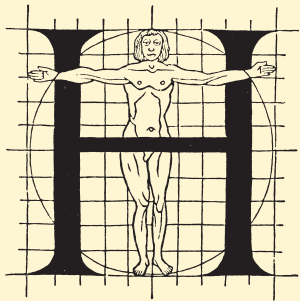
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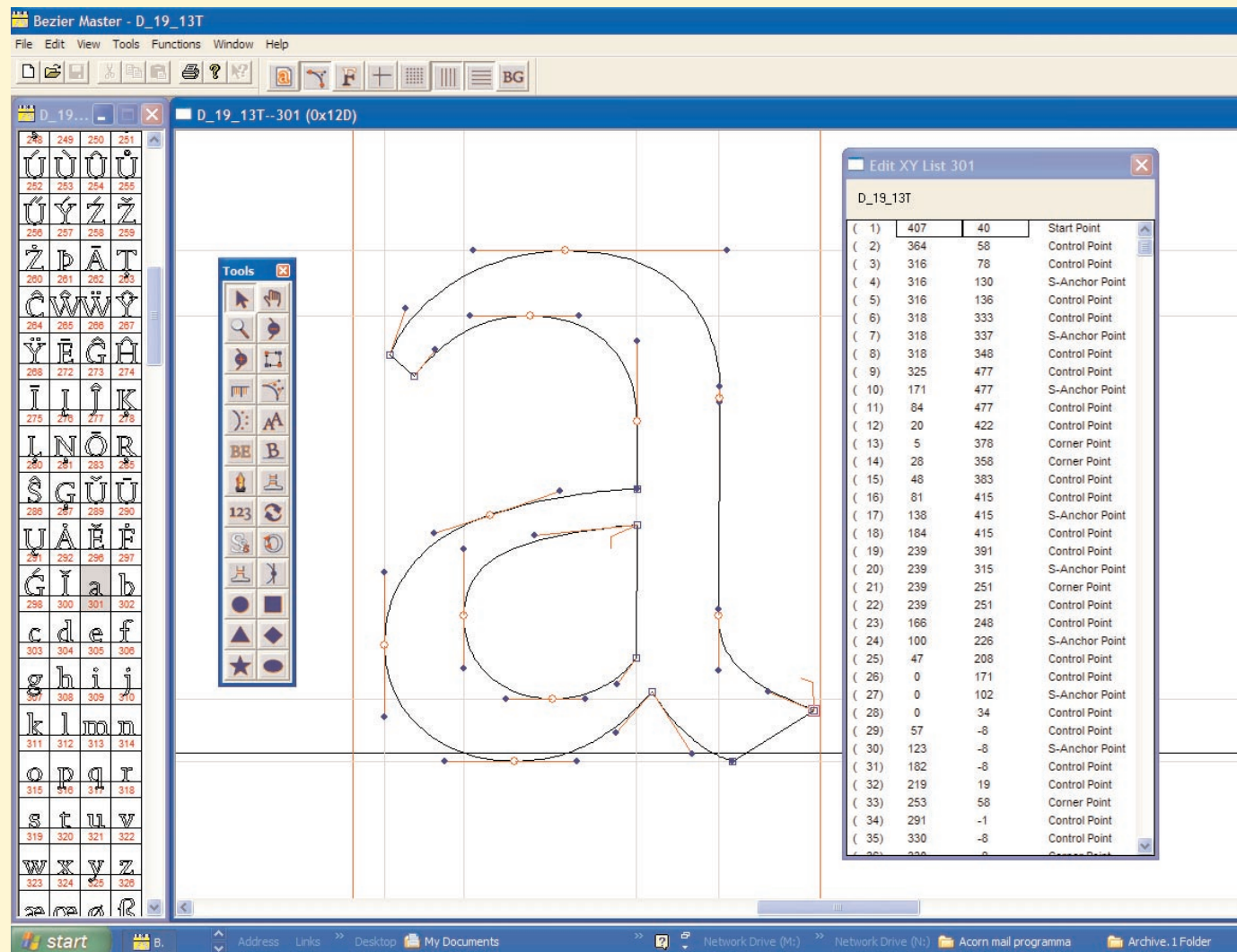
► Harmonic Systems

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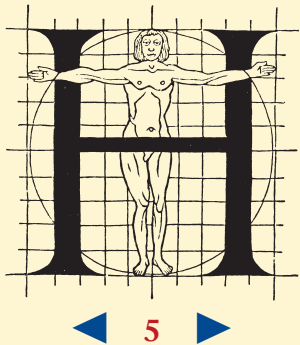
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```
# DTL DataMaster 2.6.1 Command File
# DTL ProkyonCon CFF TPRO
# Last update: 19 July 2007
```

```
# Select Character Layout File and Code Page.
CharacterLayoutFile FontProduction:FontMaster:Support_Files:Character Layout
files:OpenType:Pro:pro_otf.cha
CharacterLayoutCodePage PostScript-Number
```

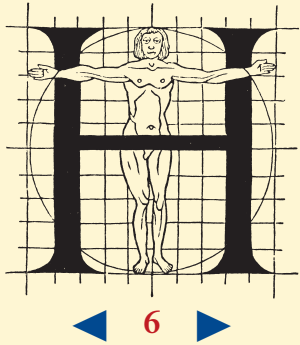
```
# Set Basic Em-Square.
BasicEmSquare 1000
```

```
# Select Basic Format.
BasicFormat BE Format
```

```
# Select Basic Font Directory.
BasicFontDirectory FontProduction:FontMaster:Aanmaak:ProkyonCon:
Mac OS:OpenType:Pro
```

```
# Select Basic Font(s).
SelectBasicFont all
```

```
# Set up Target Directories for all Export Formats.
ExportFontFormat OpenType (CFF)
```

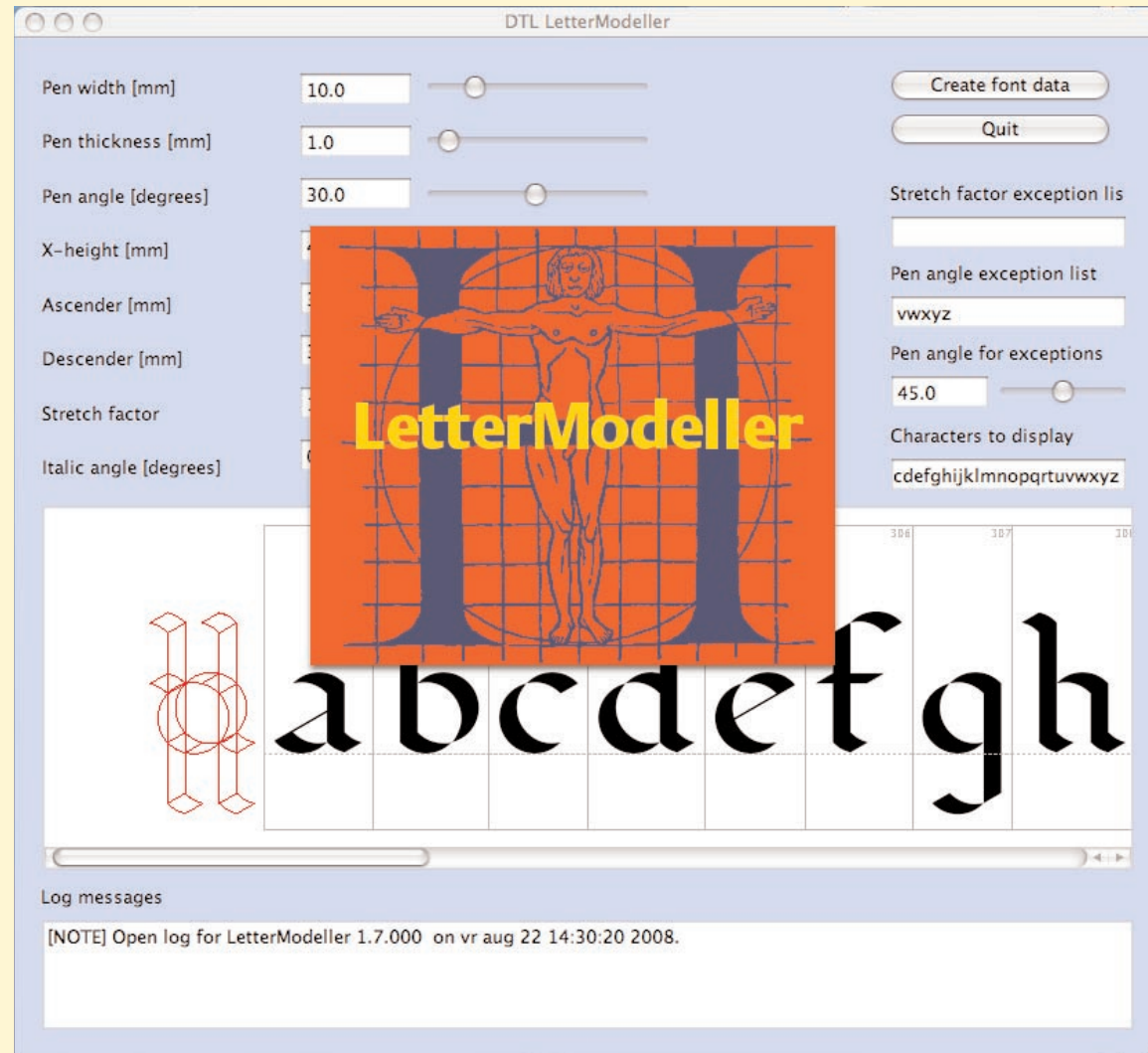


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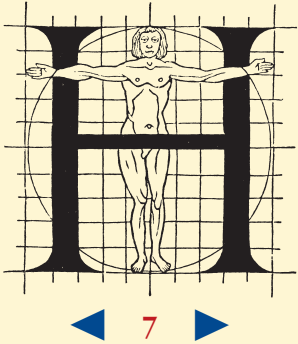
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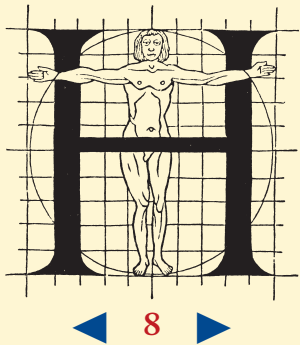
II. Harmonic Systems

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‘Since this [Geometry] is in very truth the foundation of the whole graphic art, it seems to me a good thing to set down for studious beginners a few rudiments.’

Albrecht Dürer

(Unterweysung der Messung mit dem Zirckel und Richtscheit, 1525)



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– Relational

– Rhythmic

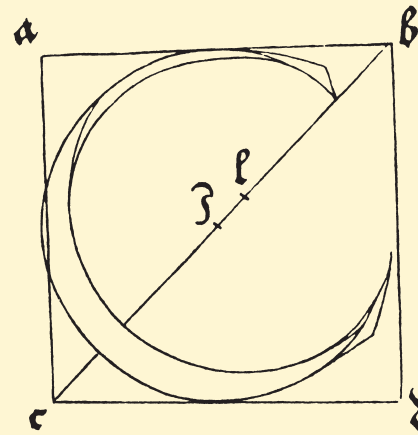
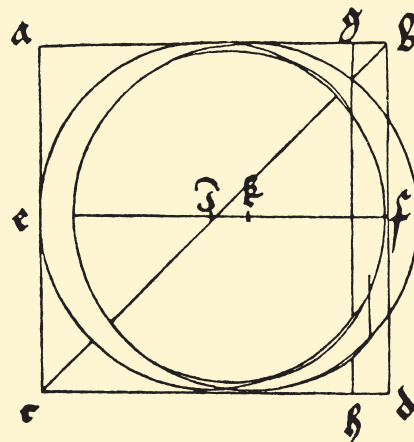
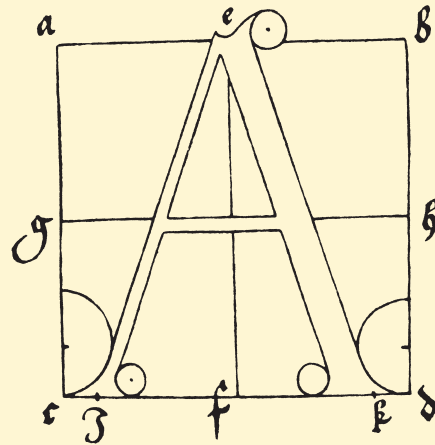
Poly- & Monoform

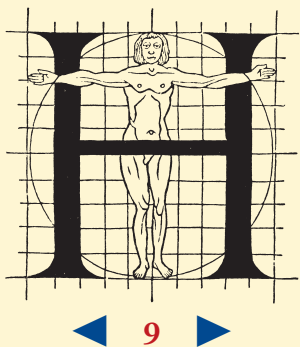
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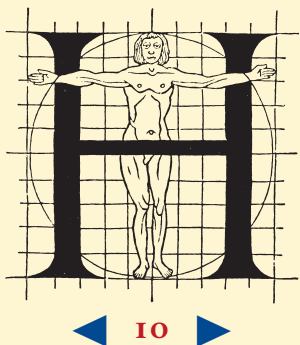
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A B C D E F G
H I J K L M N O
P Q R S T U V
W X Y Z



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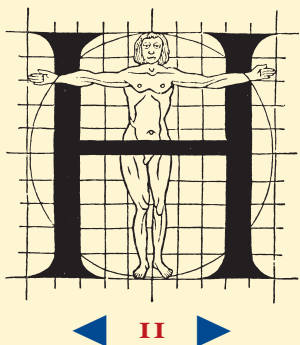
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abcdefghijklmnopqrstuvwxyz



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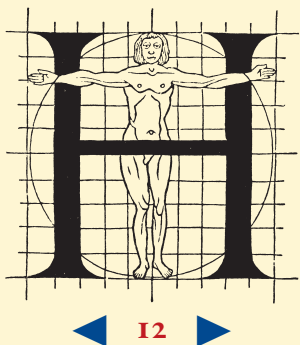
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abcdefghijklmnopqrstuvwxyz



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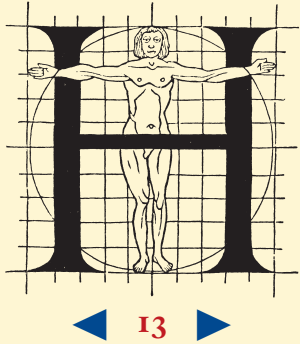
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abcdefghijklmnopqrstuvwxyz



Prerequisites for describing a Harmonic System:

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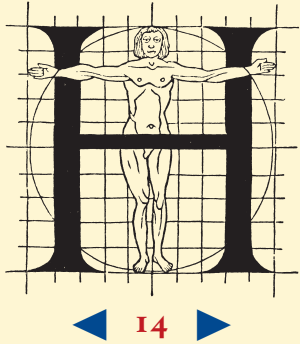
- distinction of Harmonic Models
- the system must be organic
- the system must be non-static, i.e. modifiable
- the system must be programmable

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A Harmonic System comprises:

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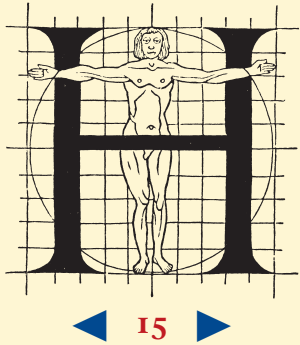
- one or more Harmonic Models
- one or more Proportional Models
- one Relational Model
- one Rhythmic Model

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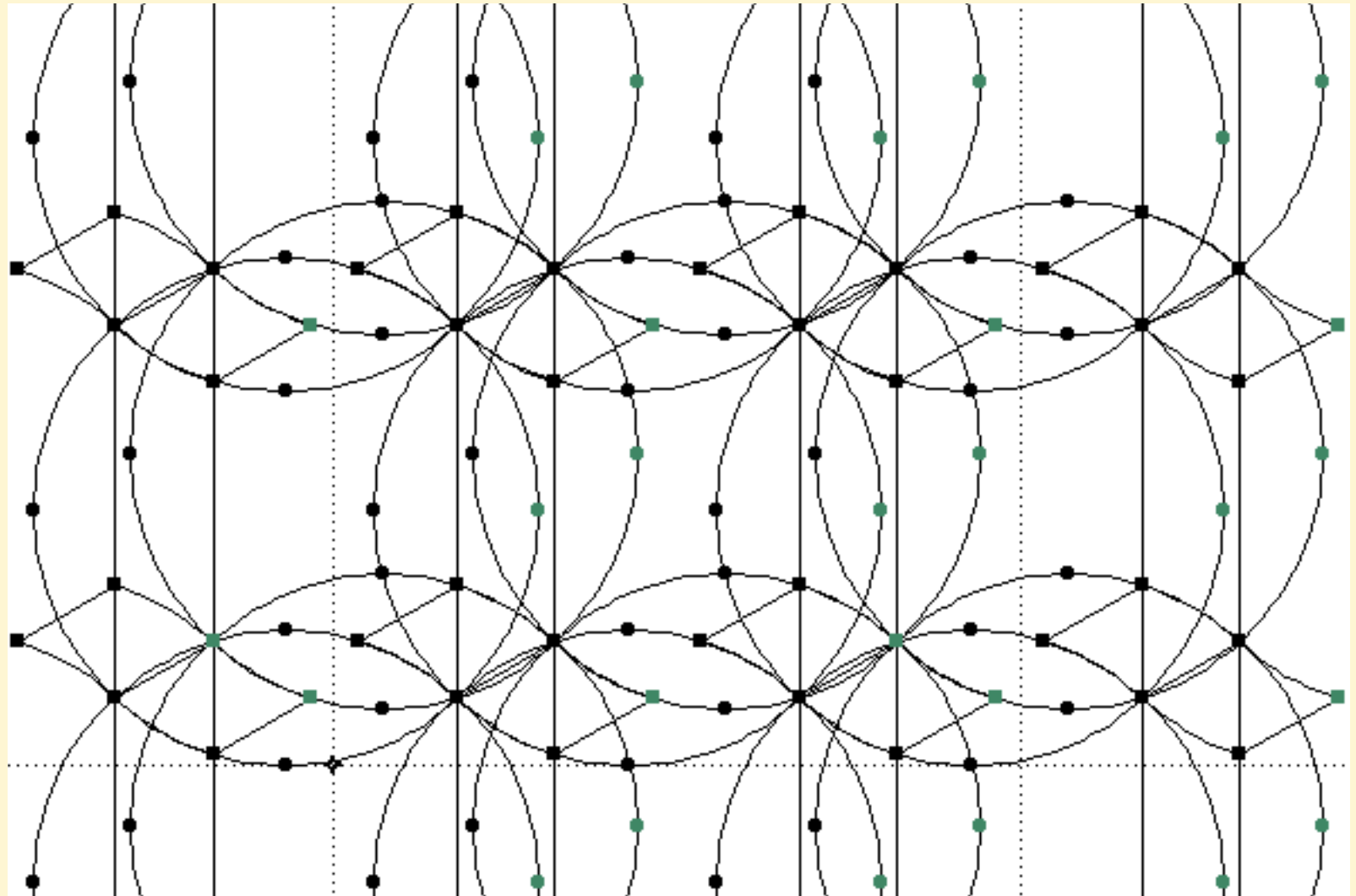
► Automation



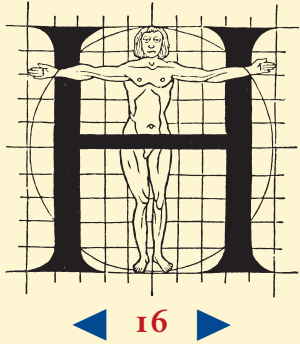
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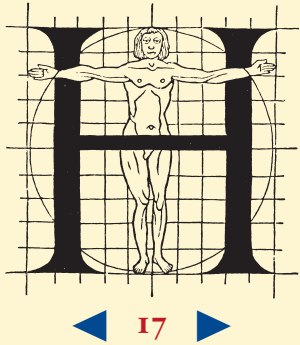
Poly- & Monoform

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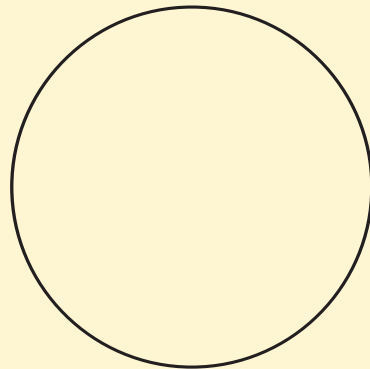
– Harmonic

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Poly- & Monoform

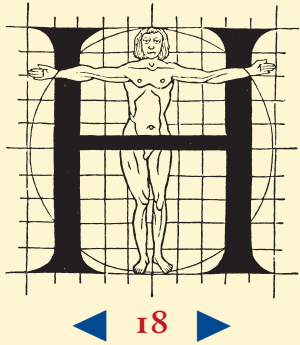


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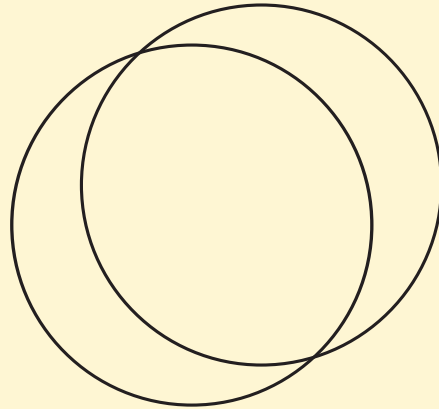
– Harmonic

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– Rhythmic

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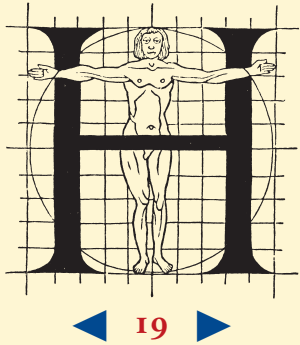


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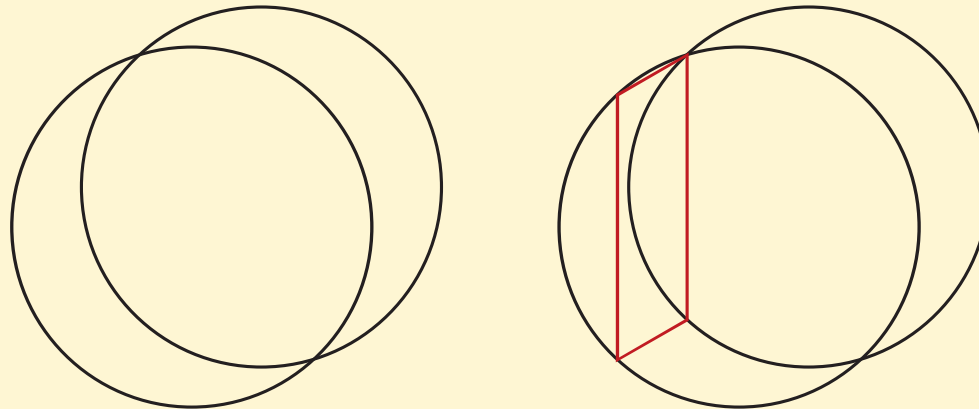
– Harmonic

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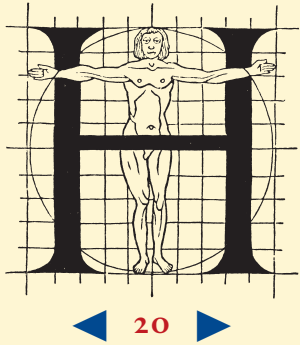


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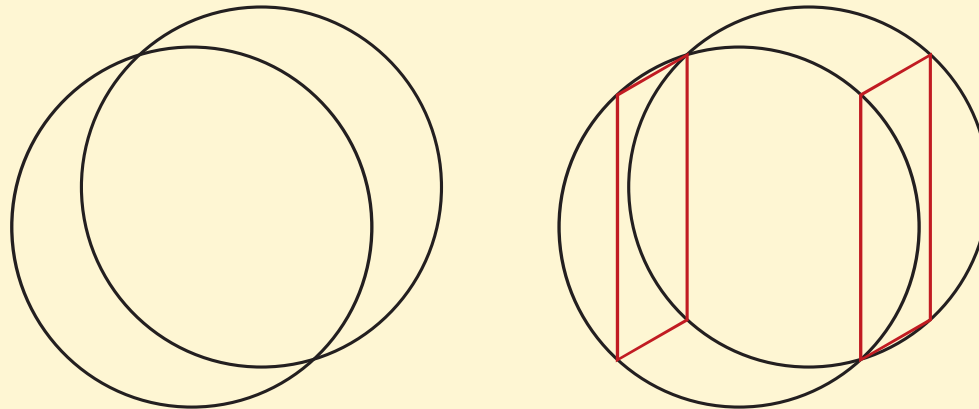
▼ Harmonic Systems

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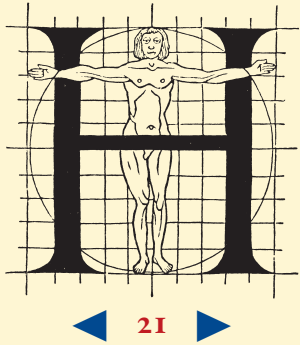


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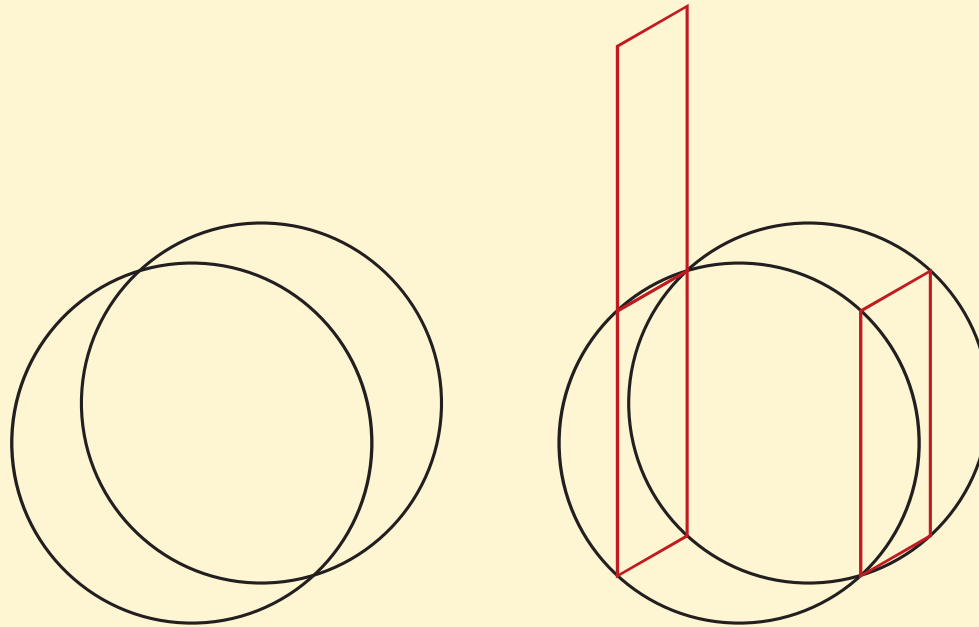
– Harmonic

– Proportional

– Relational

– Rhythmic

Poly- & Monoform

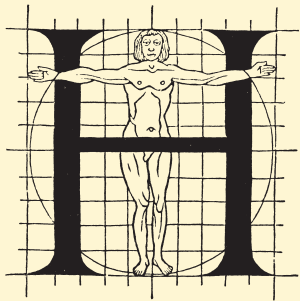


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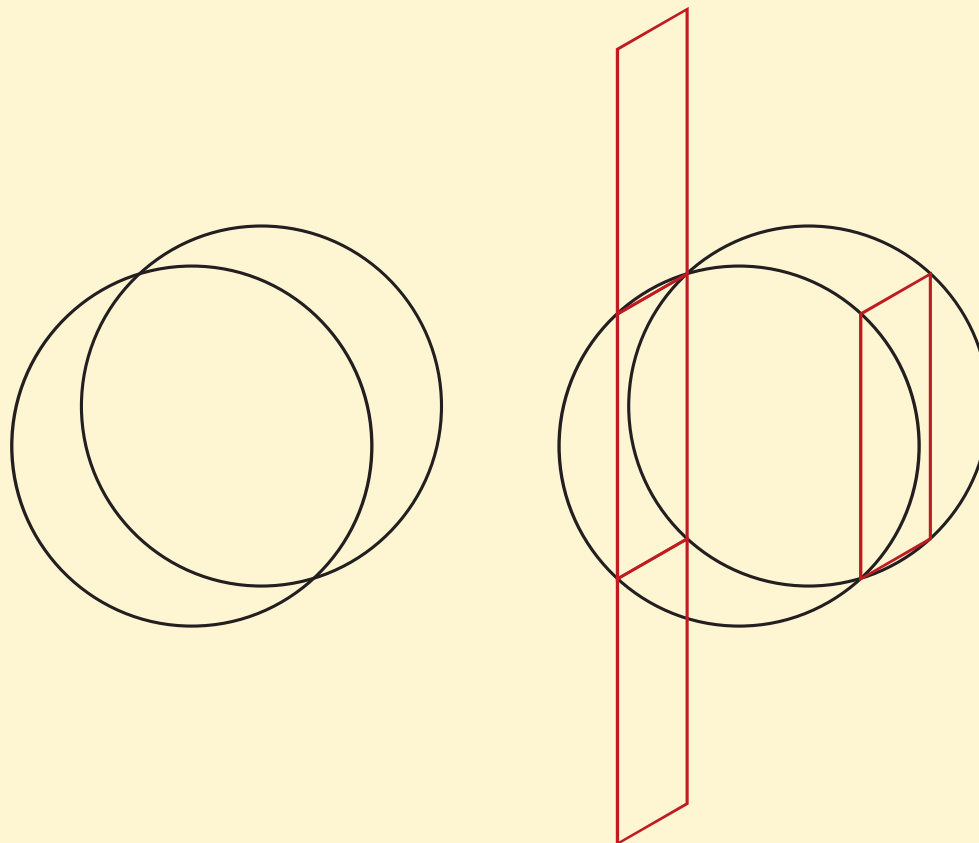
– Harmonic

– Proportional

– Relational

– Rhythmic

Poly- & Monoform

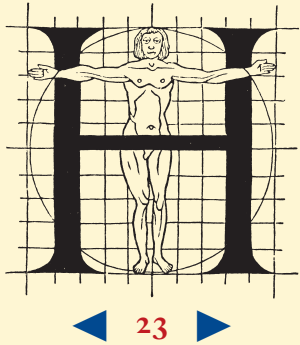


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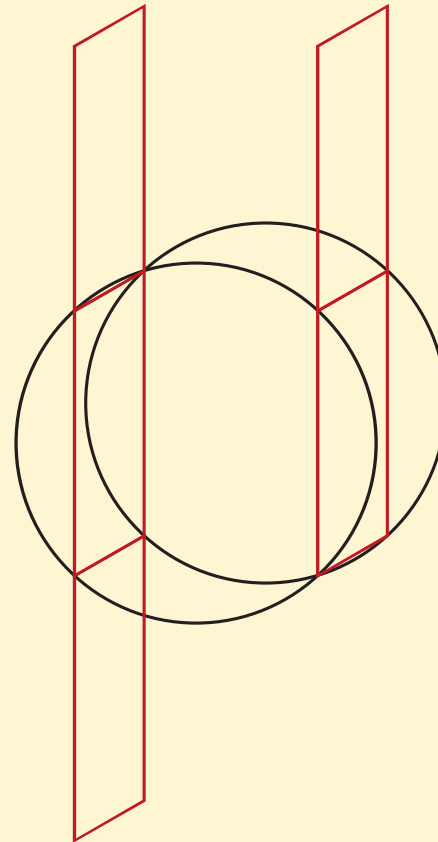
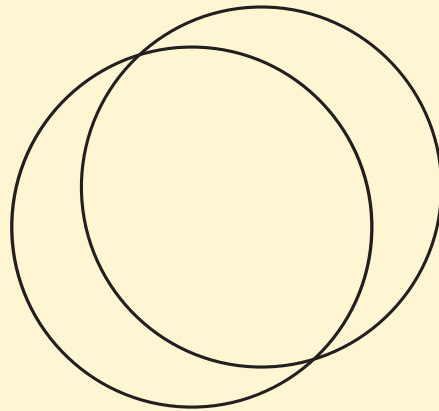
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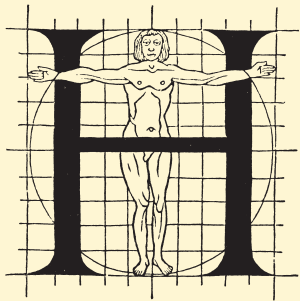


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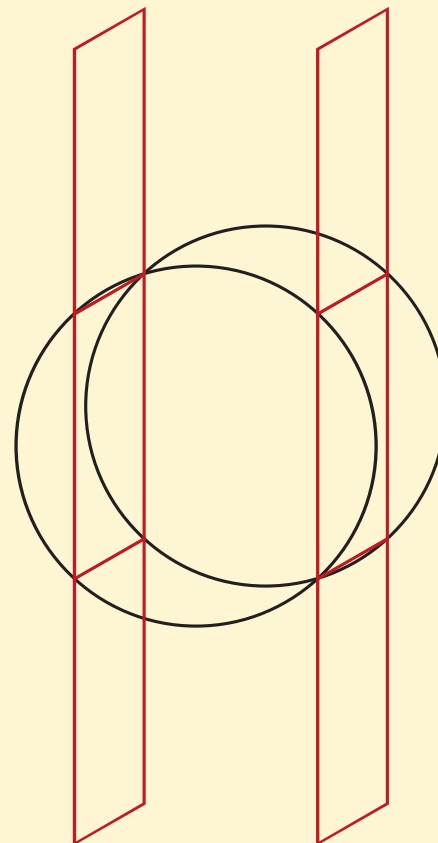
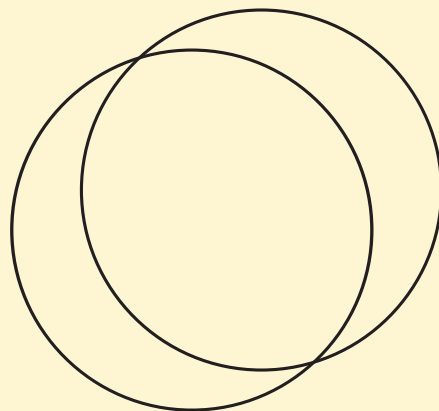
– Harmonic

– Proportional

– Relational

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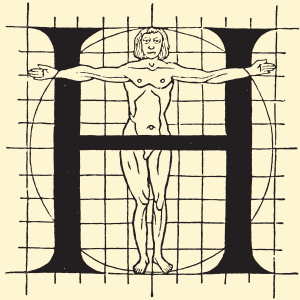


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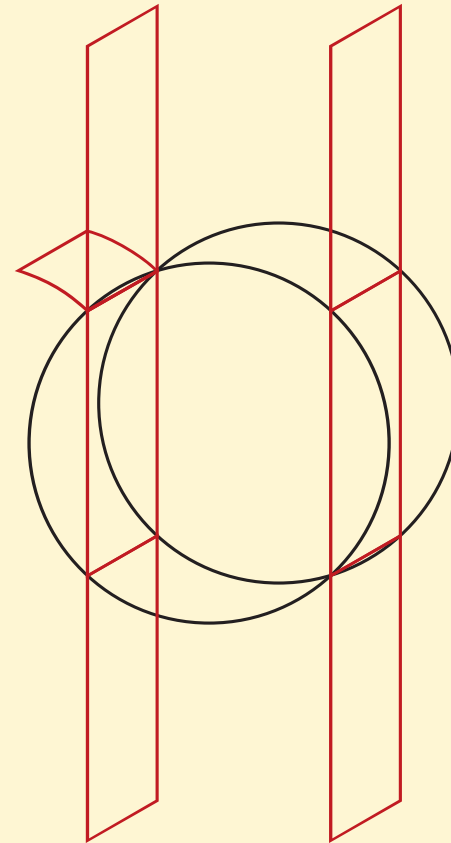
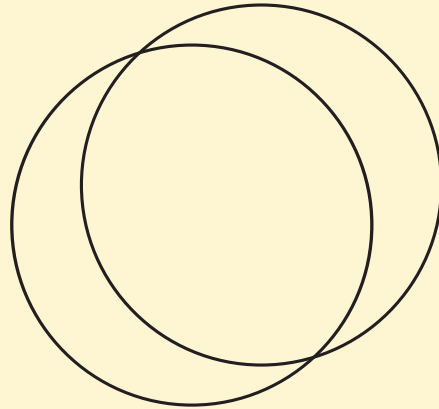
– Harmonic

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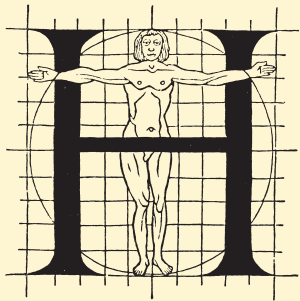


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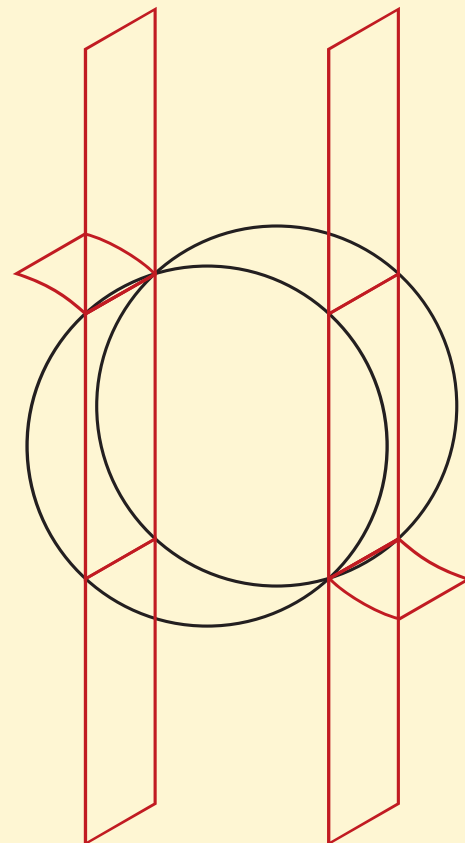
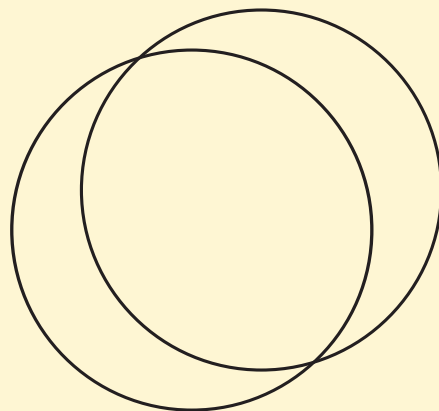
– Harmonic

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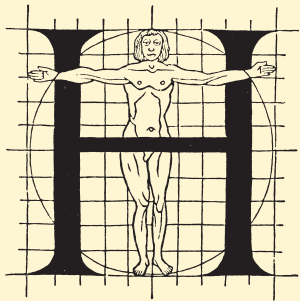


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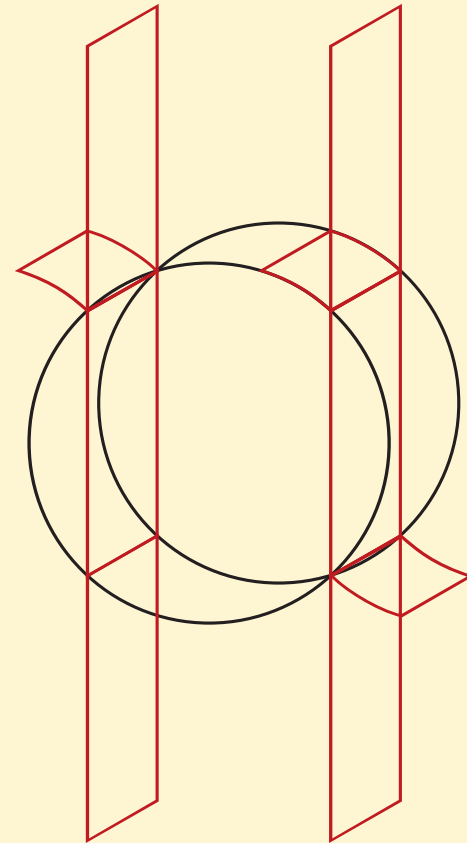
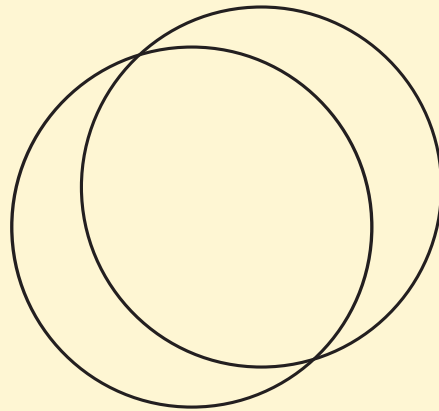
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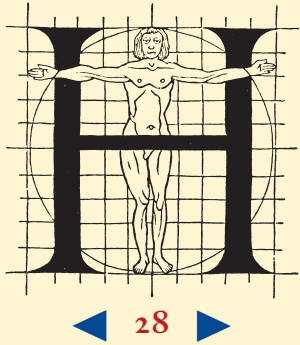


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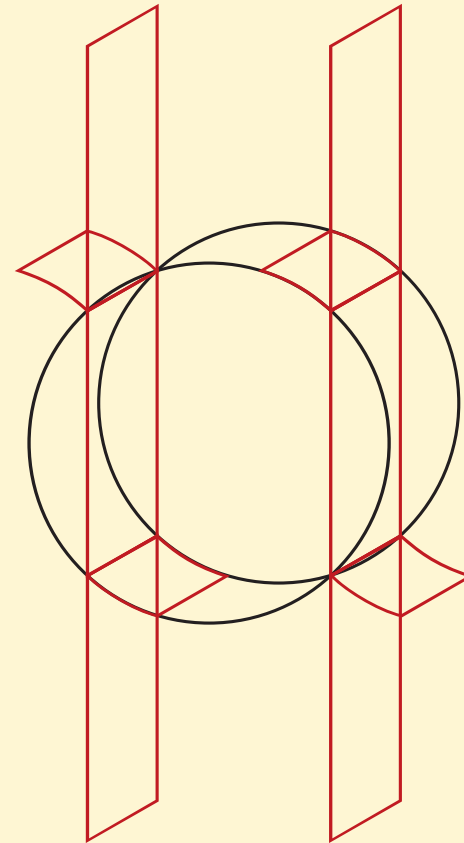
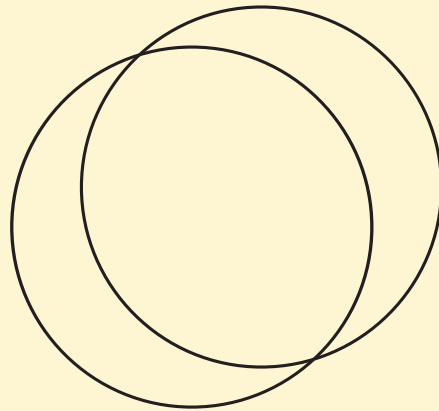
– Harmonic

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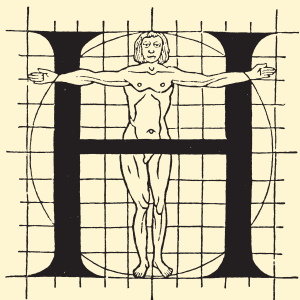


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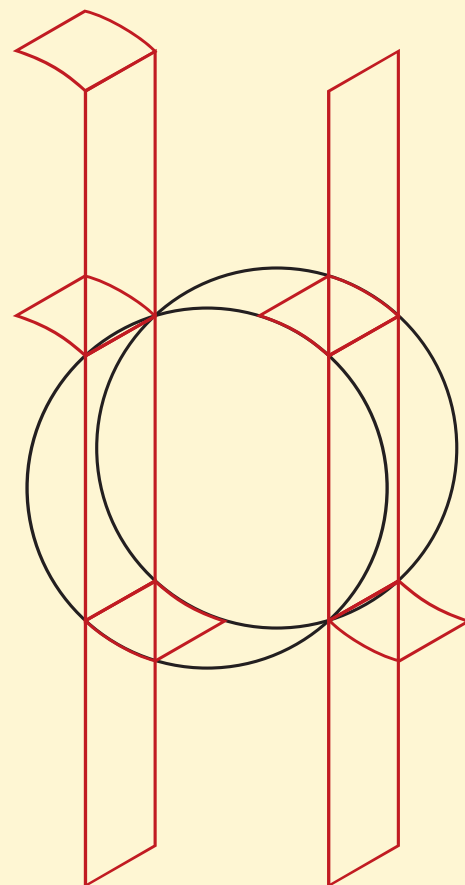
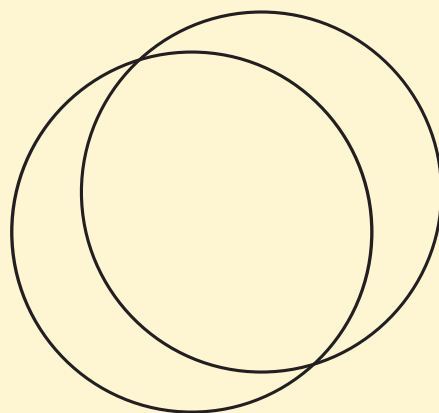
– Harmonic

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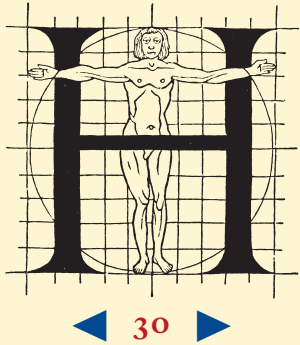


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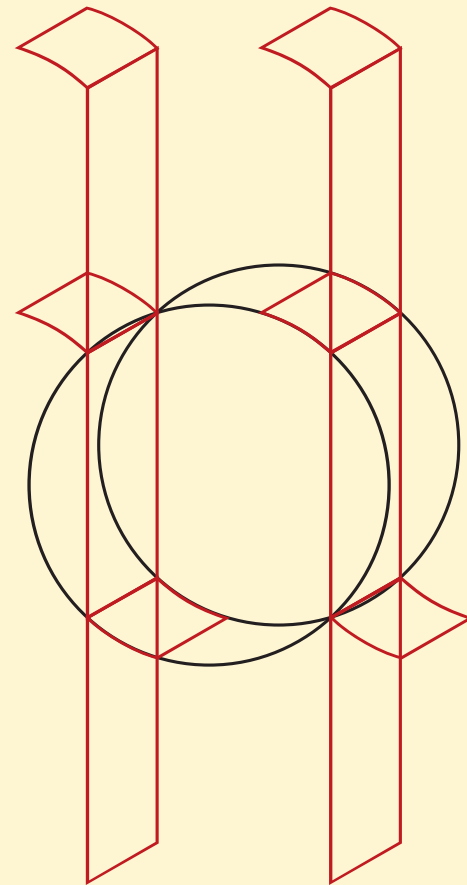
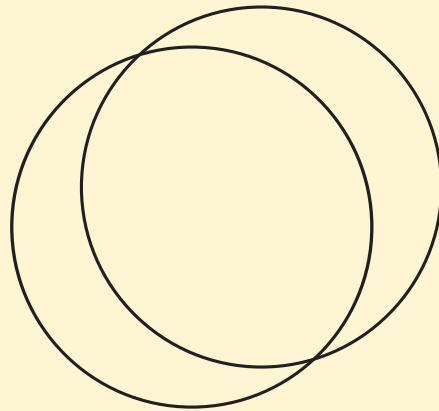
– Harmonic

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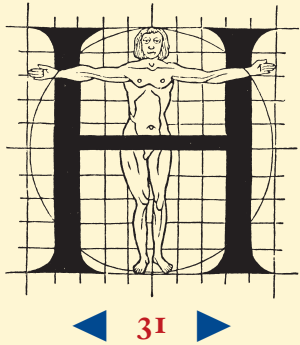


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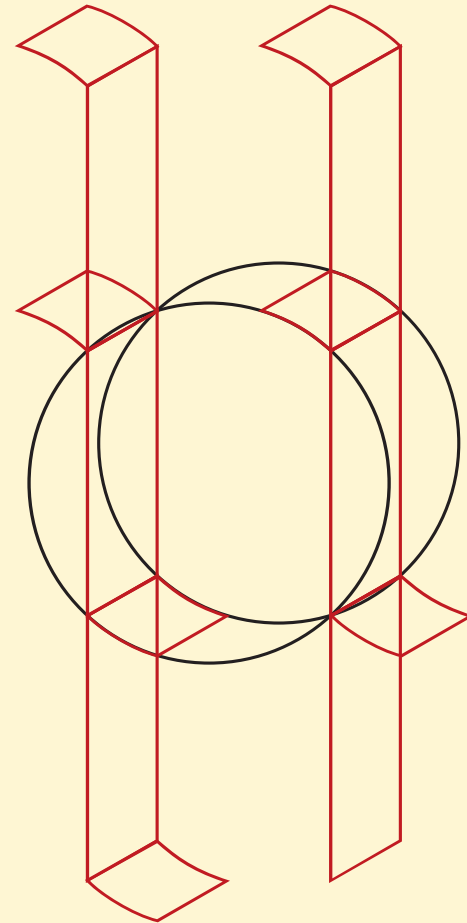
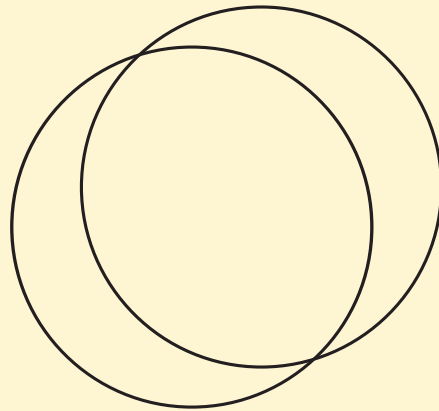
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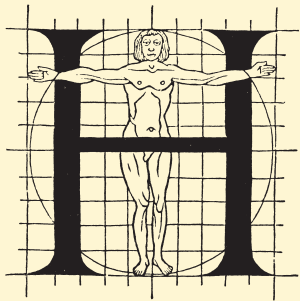
► Form Structures

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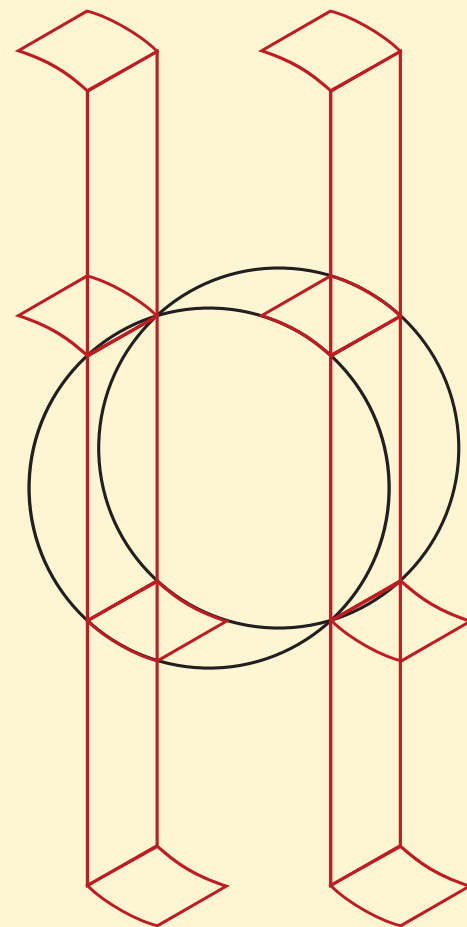
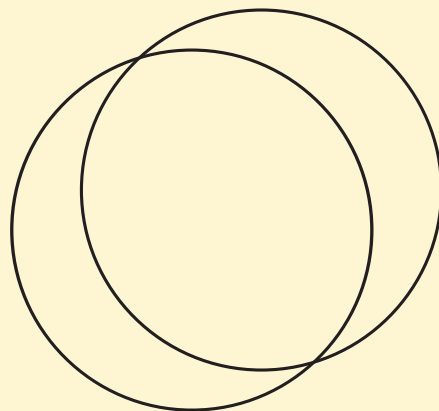
– Harmonic

– Proportional

– Relational

– Rhythmic

Poly- & Monoform

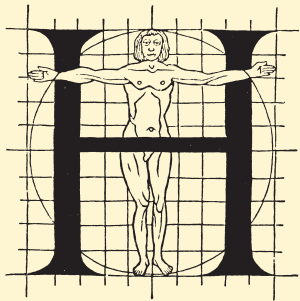


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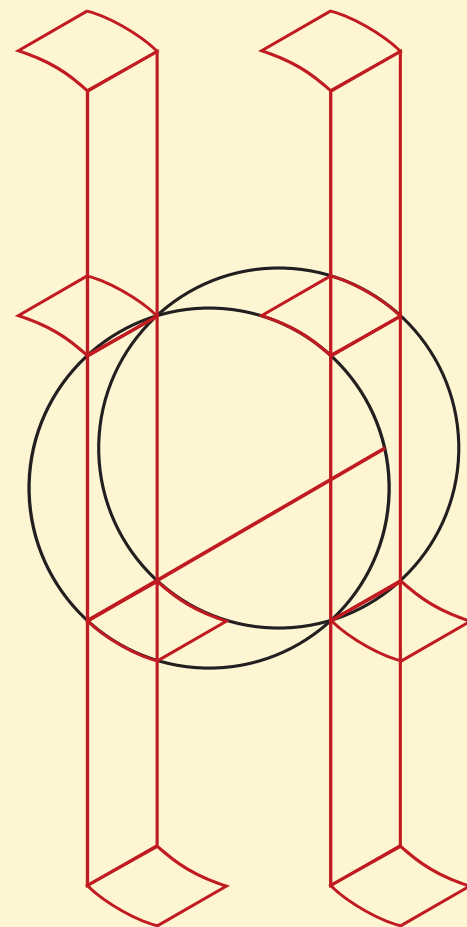
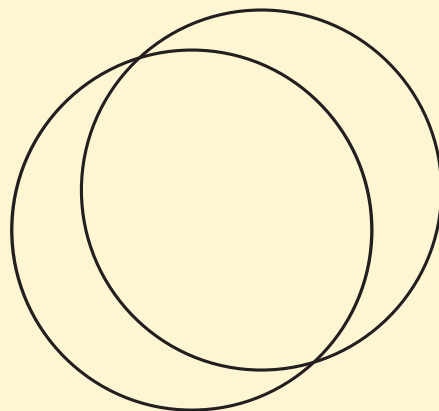
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– Proportional

– Relational

– Rhythmic

Poly- & Monoform

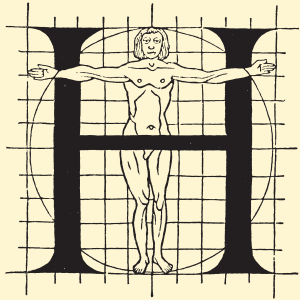


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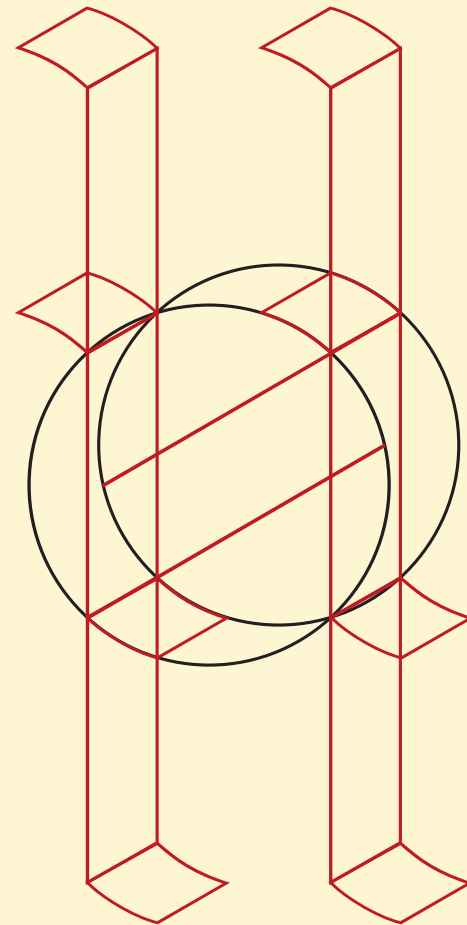
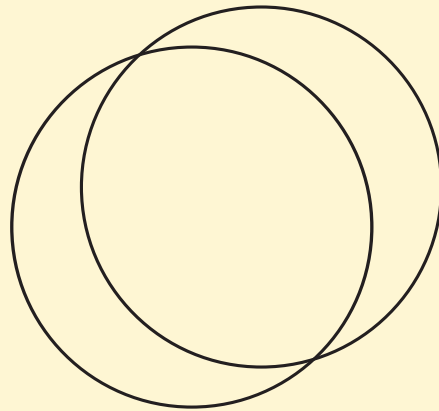
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– Proportional

– Relational

– Rhythmic

Poly- & Monoform

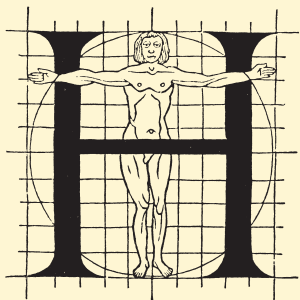


► Form Structures

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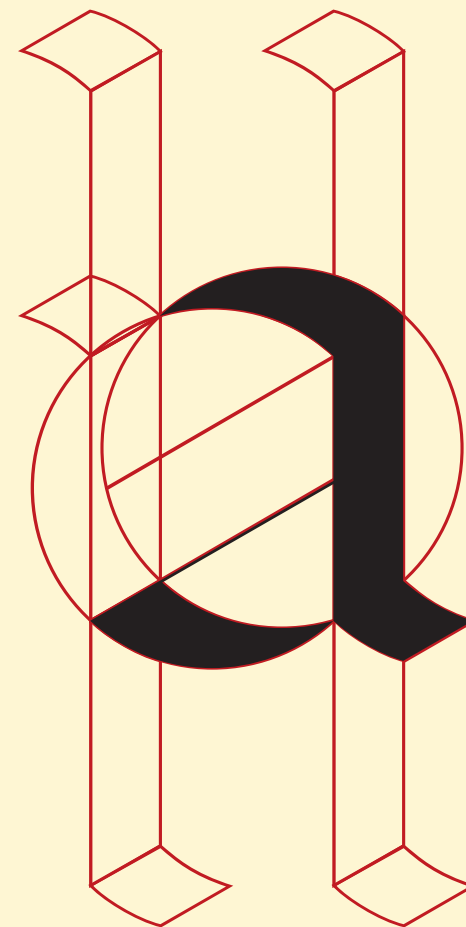
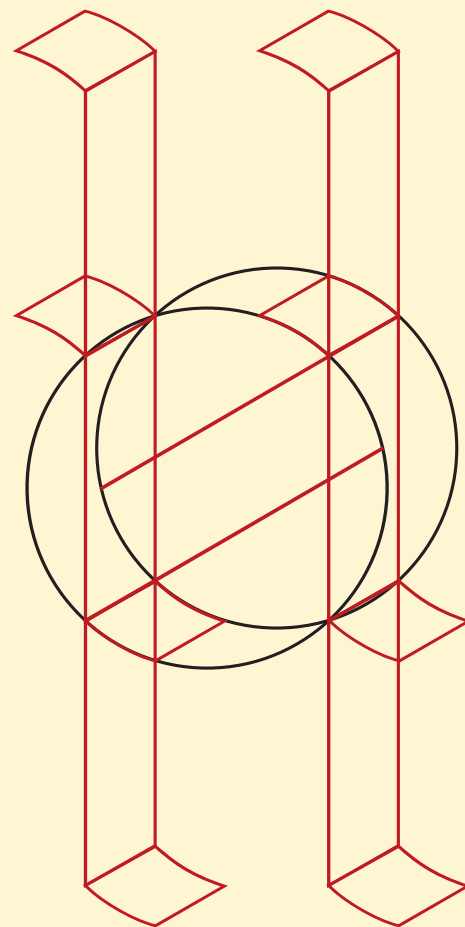
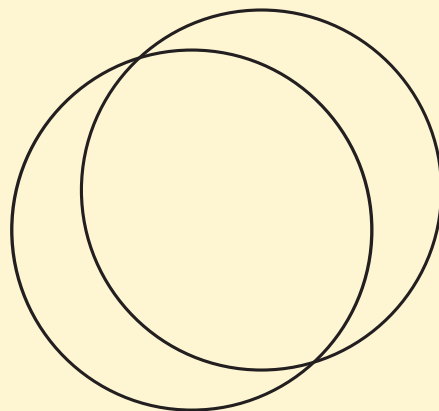
▼ Harmonic Systems

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Models:

- Harmonic
- Proportional
- Relational
- Rhythmic

Poly- & Monoform

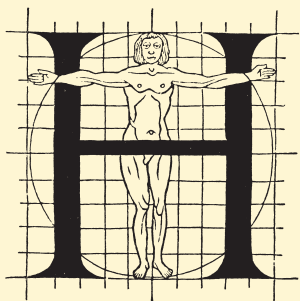


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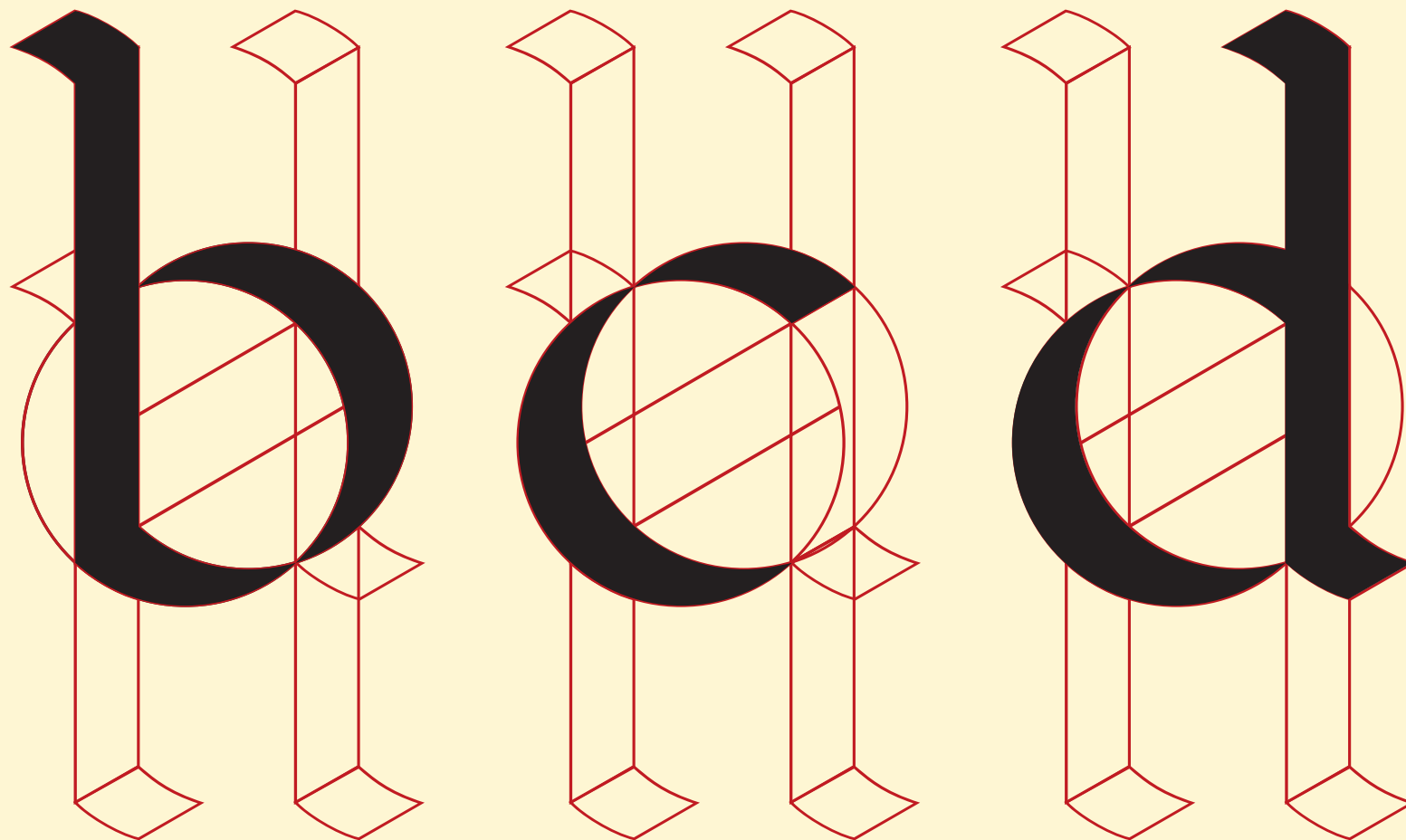
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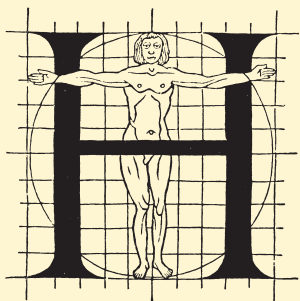
► Form Structures

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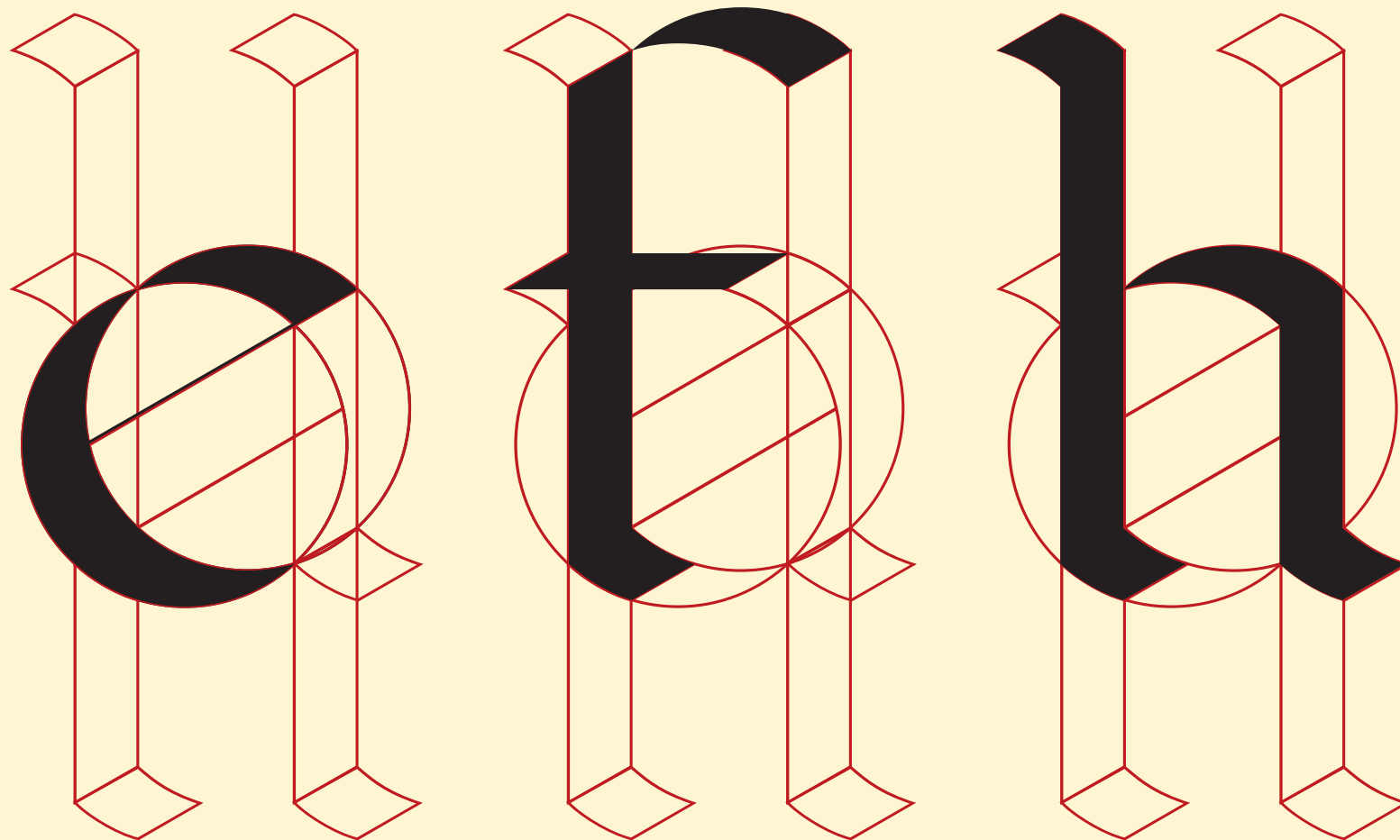
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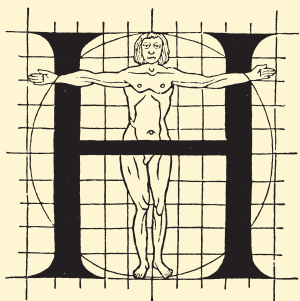
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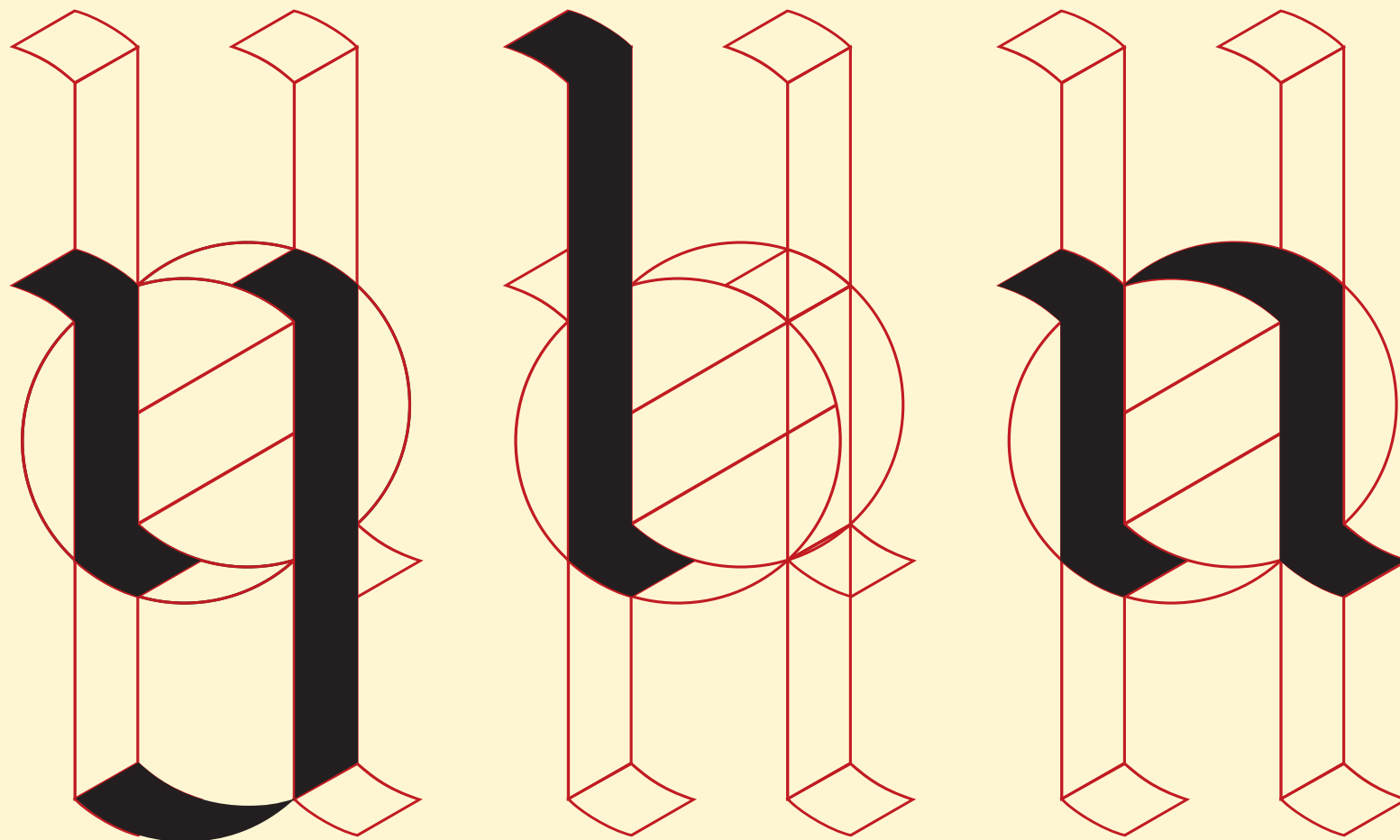
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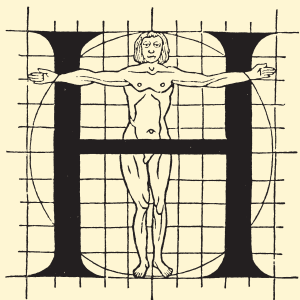
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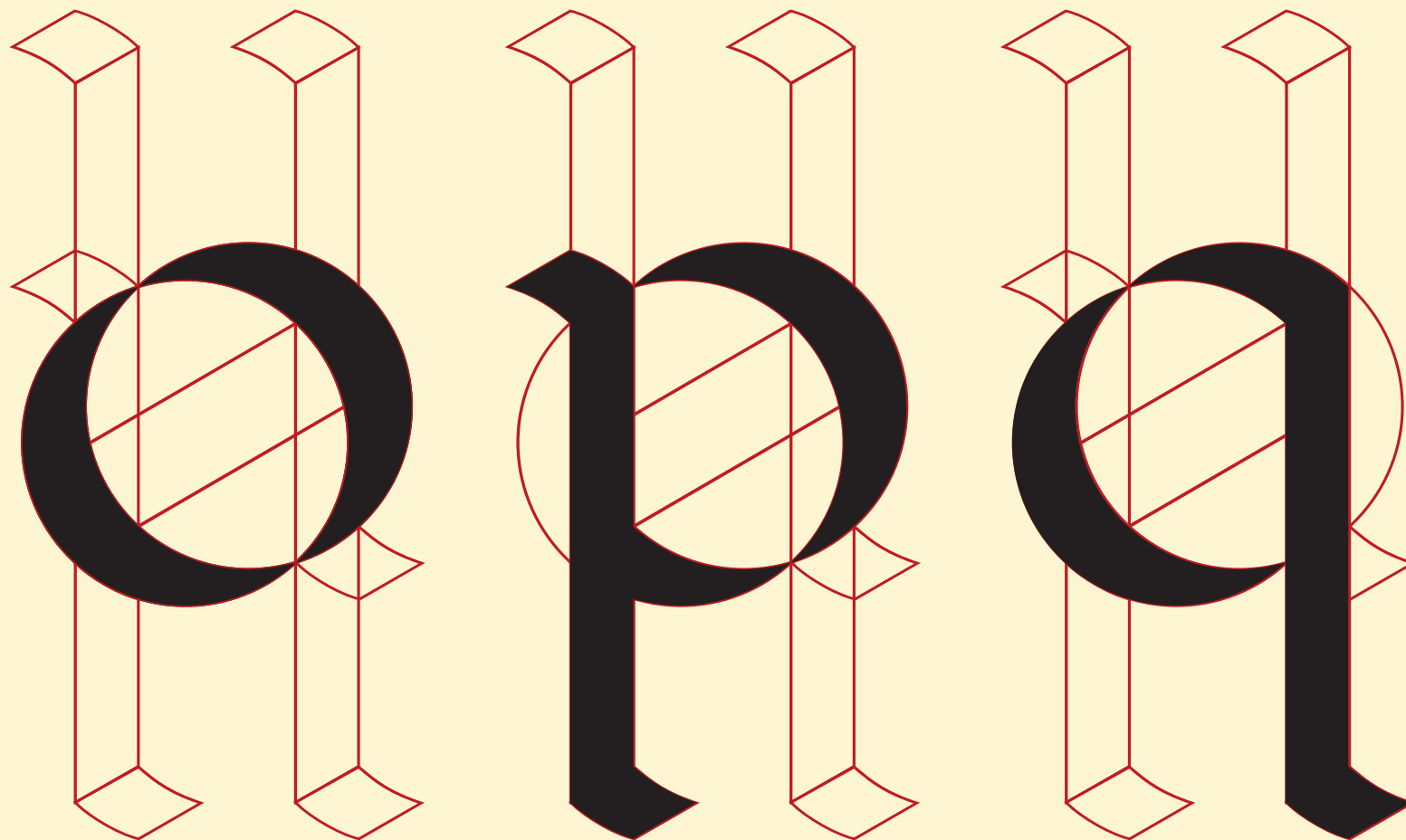
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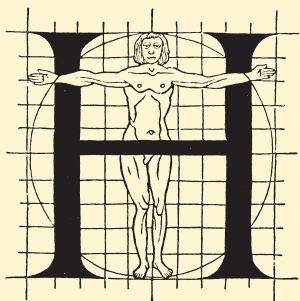
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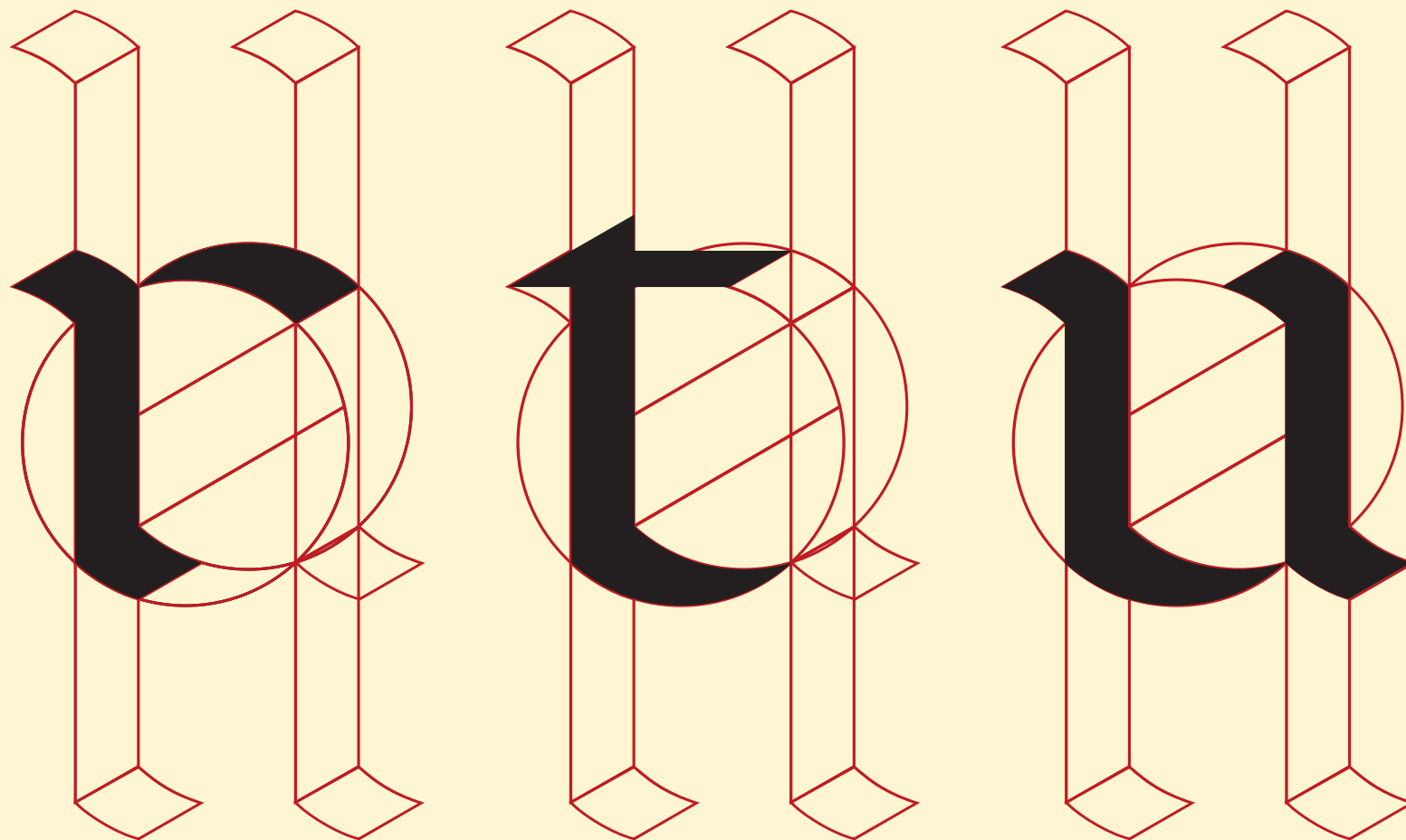
Poly- & Monoform

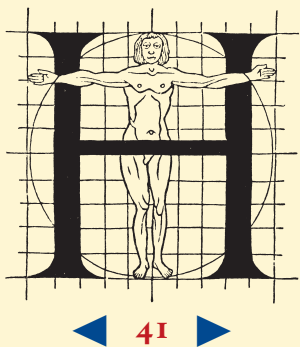
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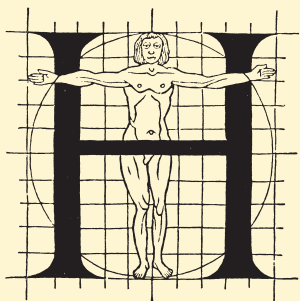
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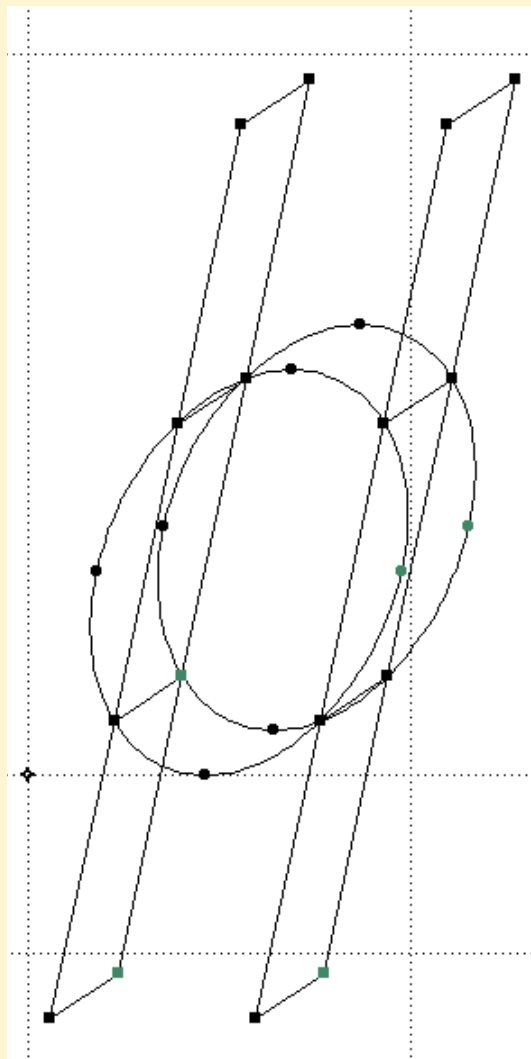


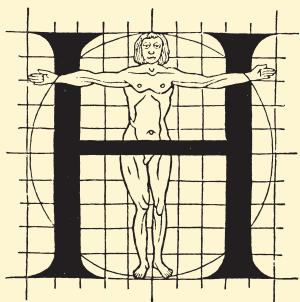
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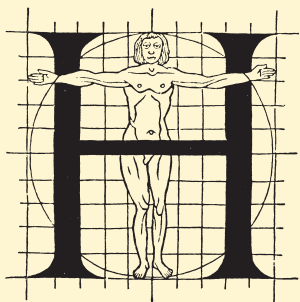
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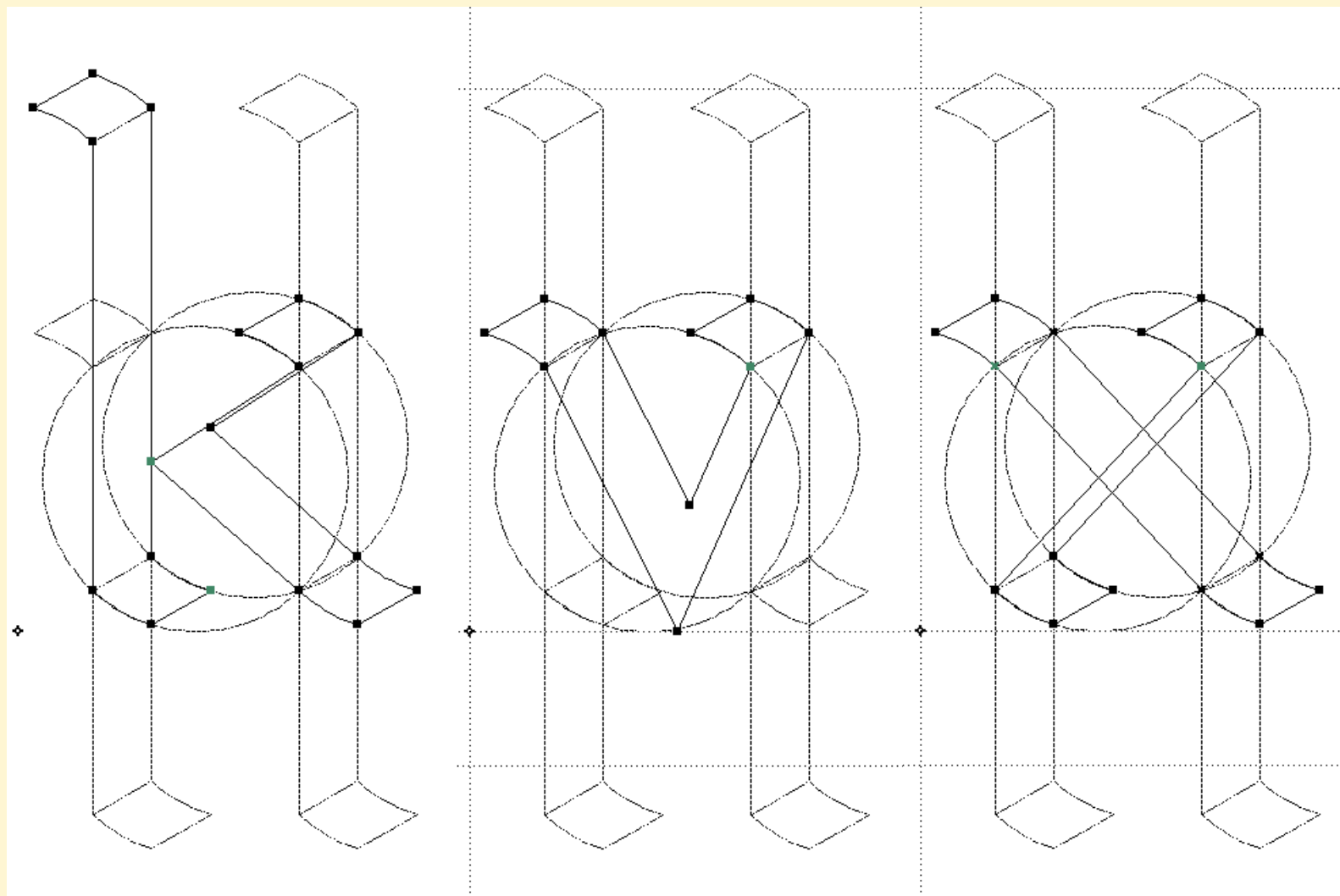
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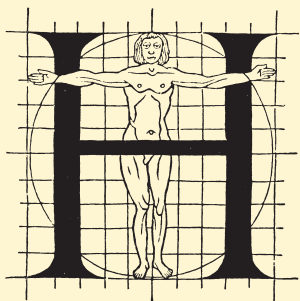
► Form Structures

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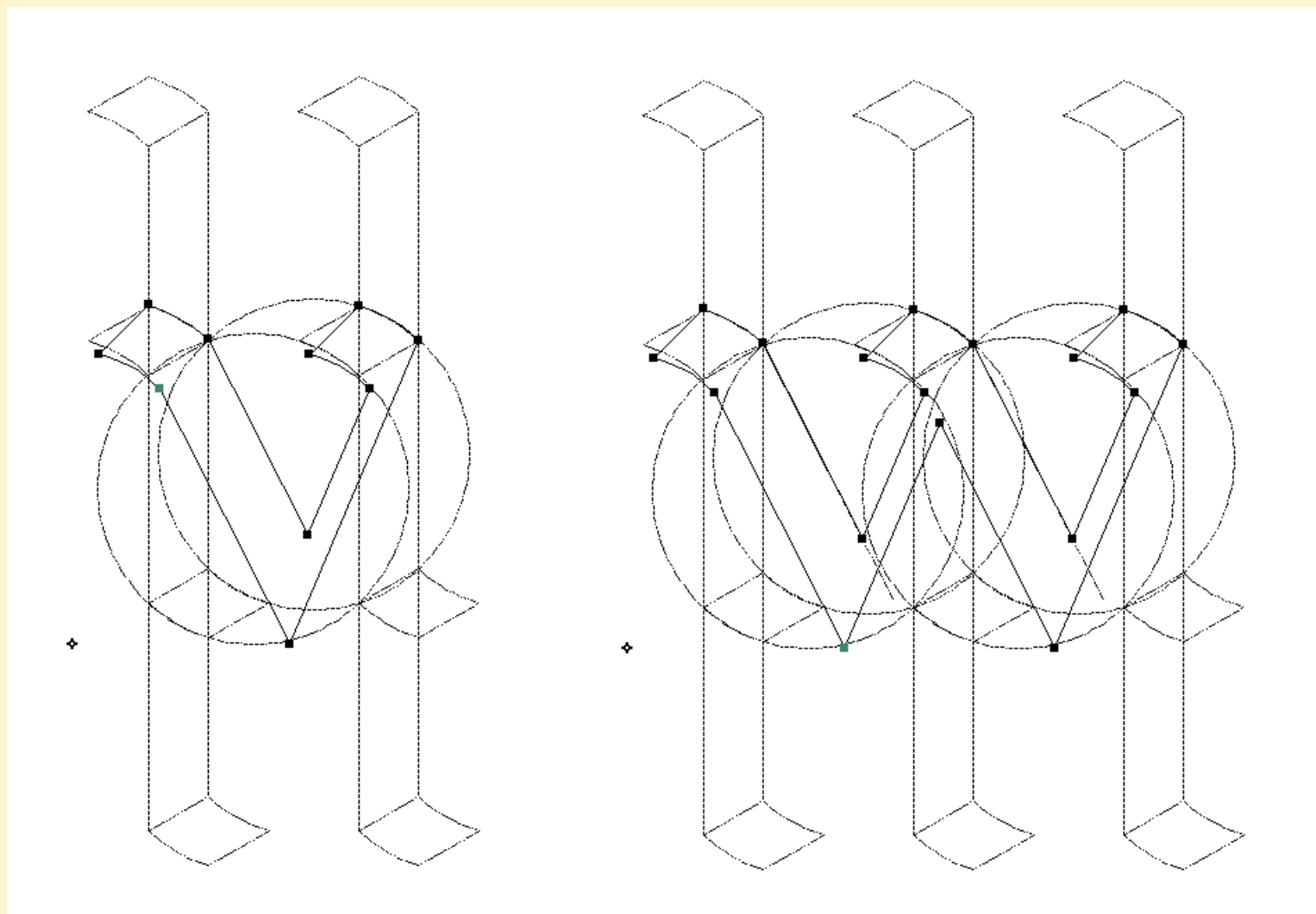
Poly- & Monoform

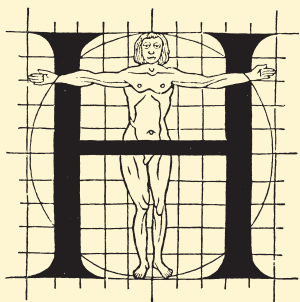
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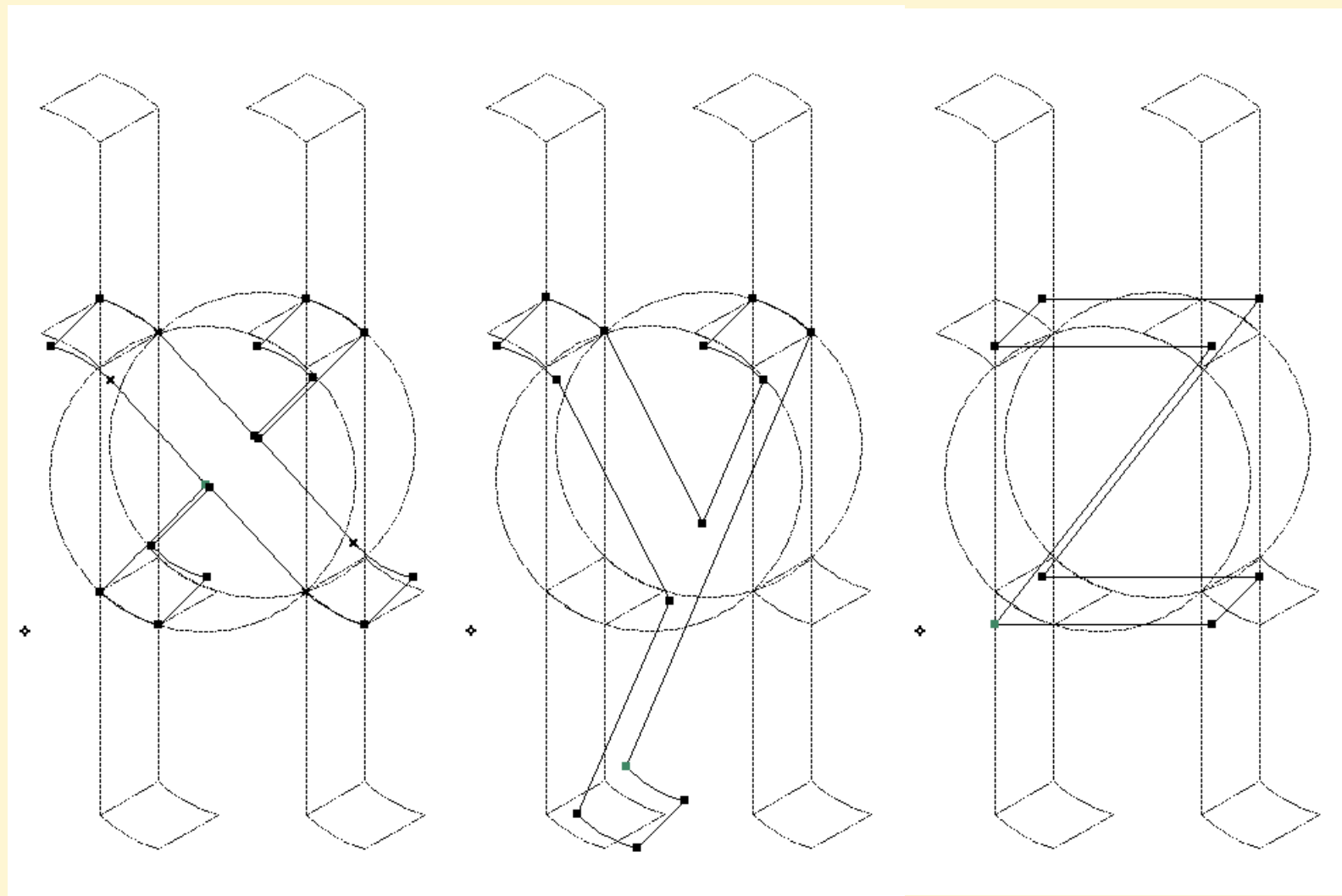
Poly- & Monoform

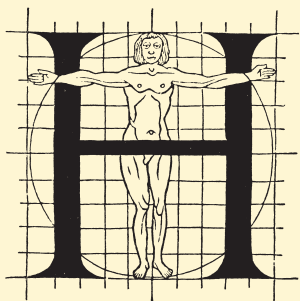
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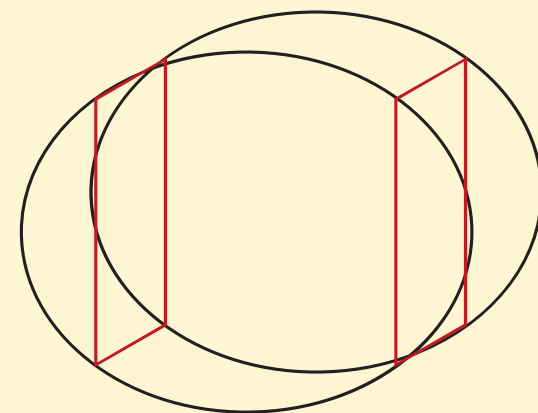
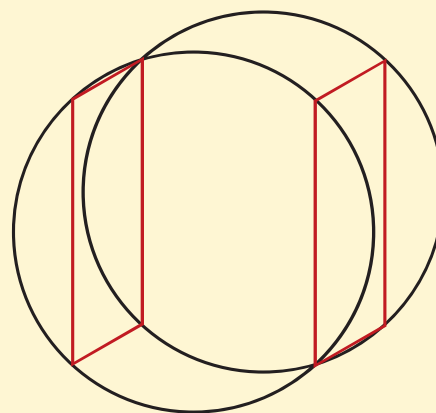
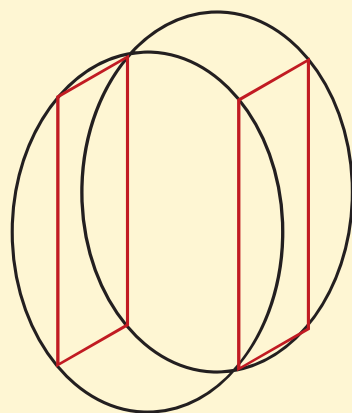
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- Harmonic
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Poly- & Monoform

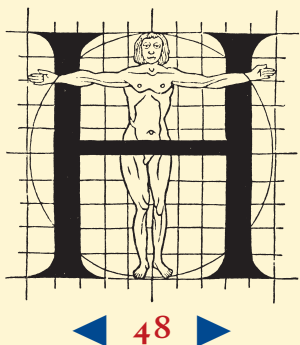


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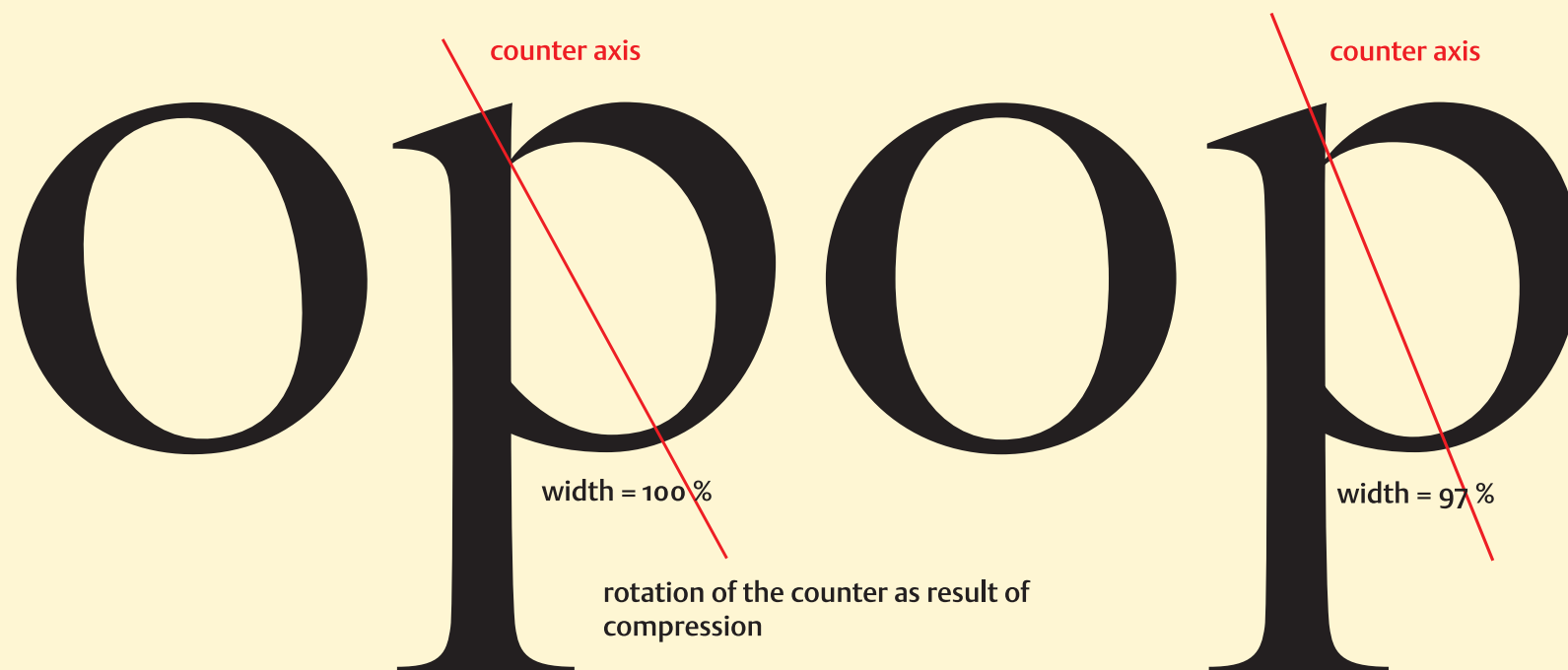
Poly- & Monoform

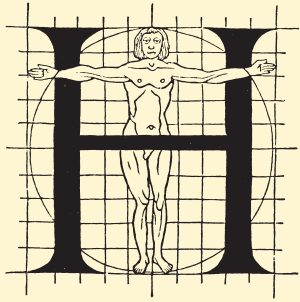
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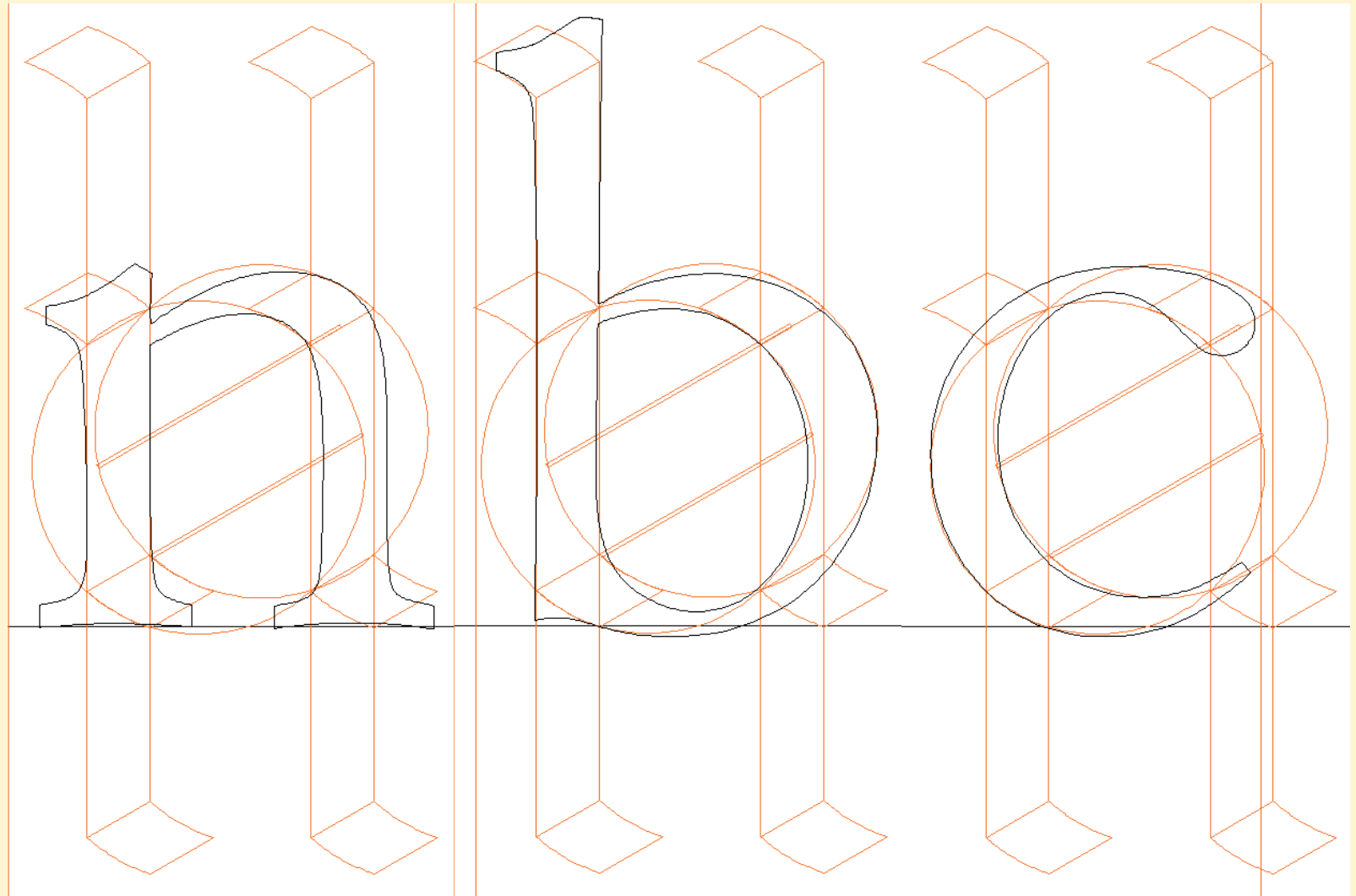
Poly- & Monoform

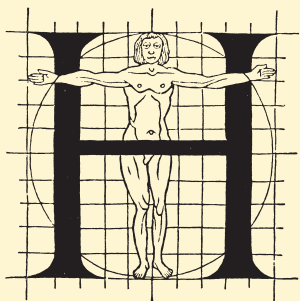
► Form Structures

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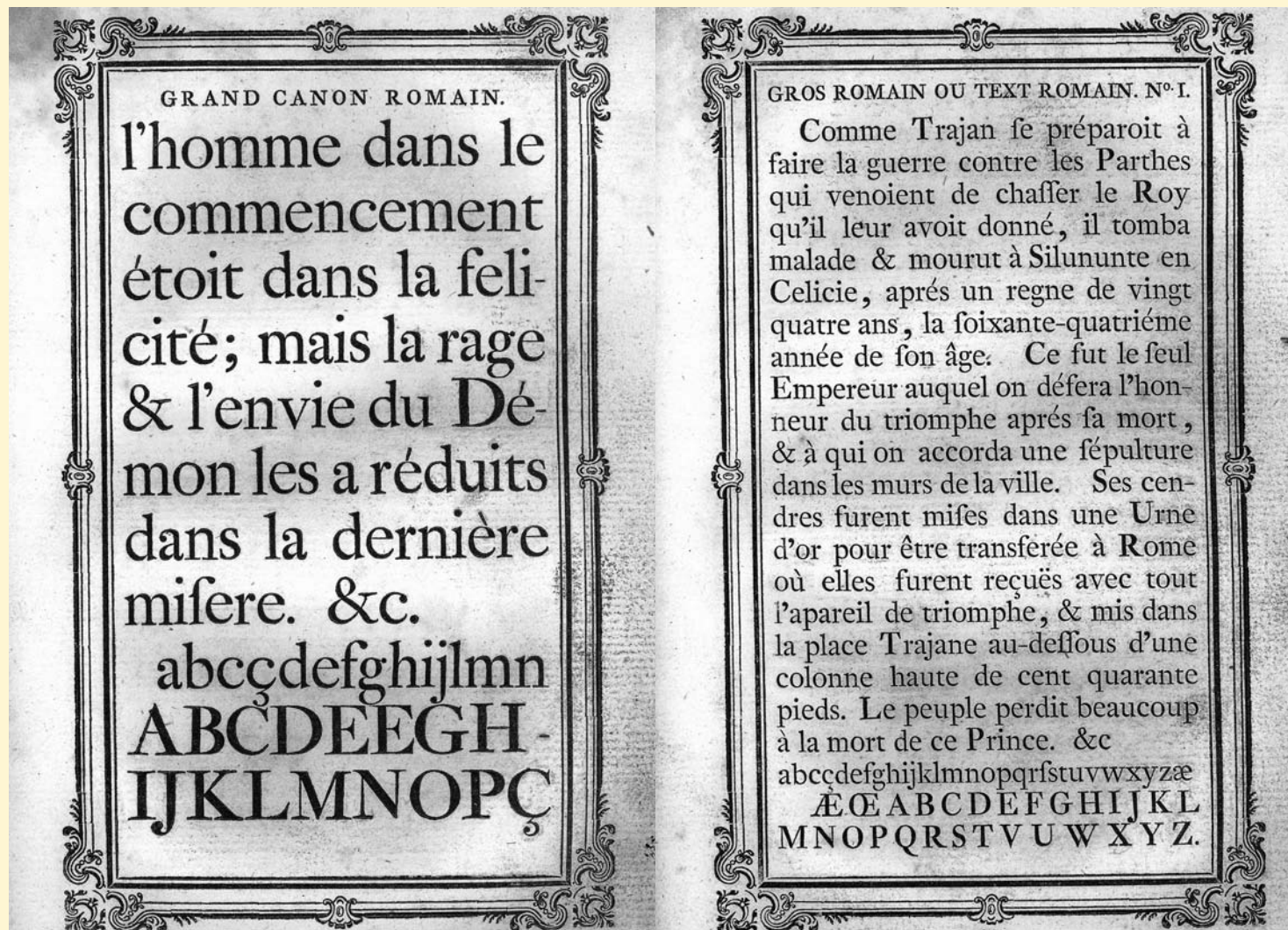




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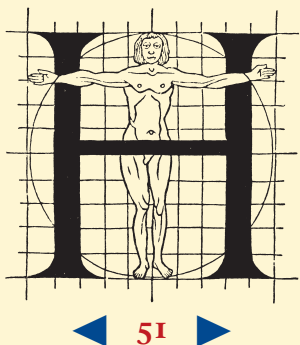
Poly- & Monoform

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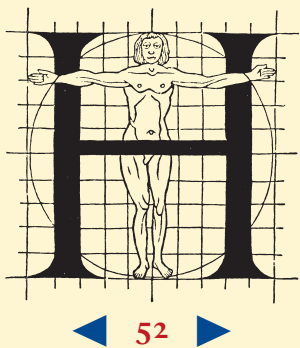
► Form Structures

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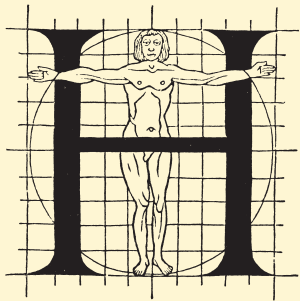
► Form Structures

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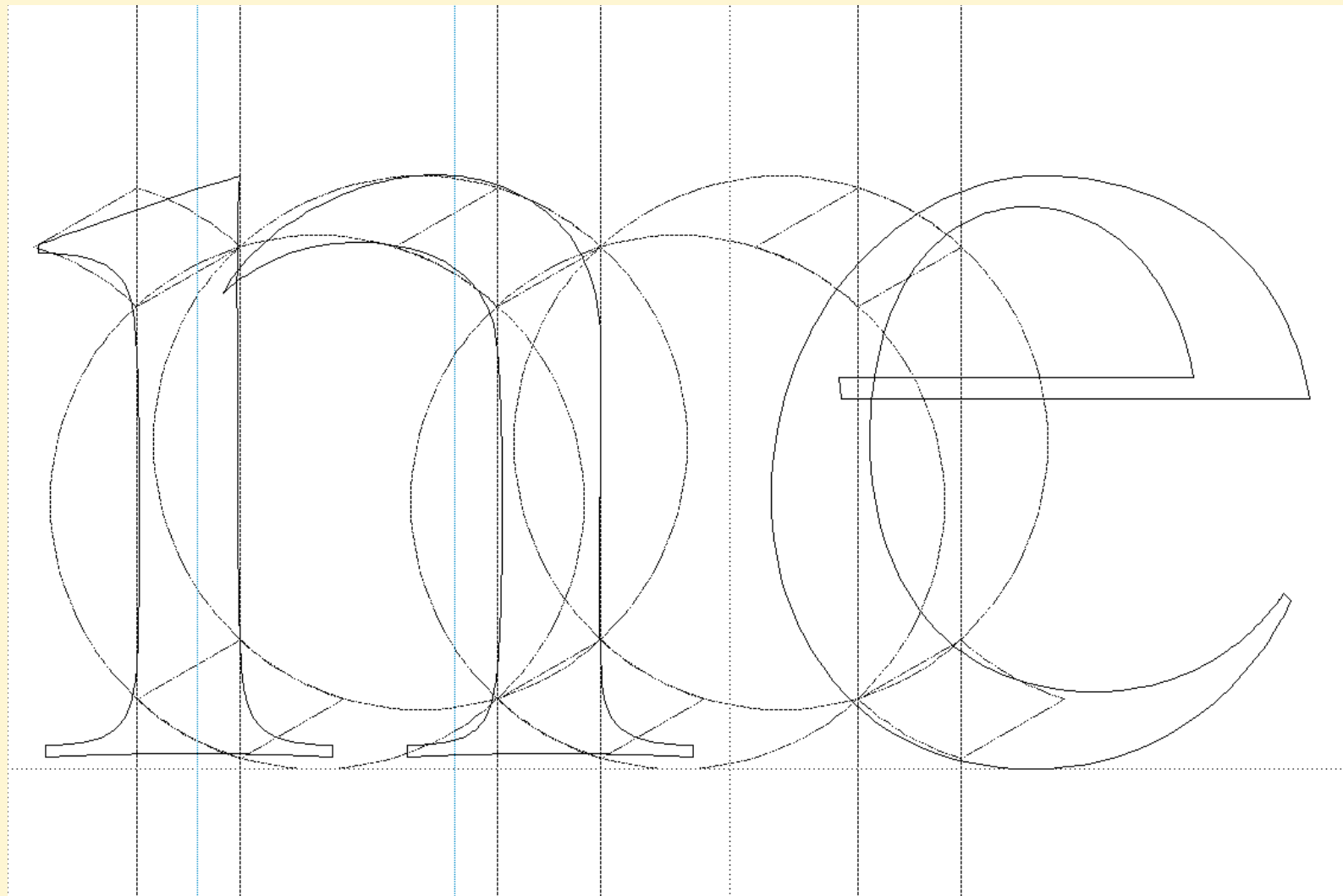
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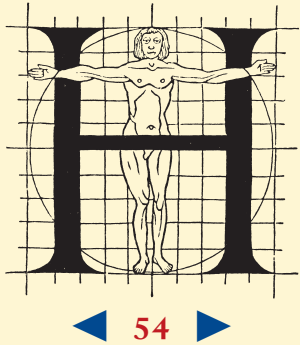
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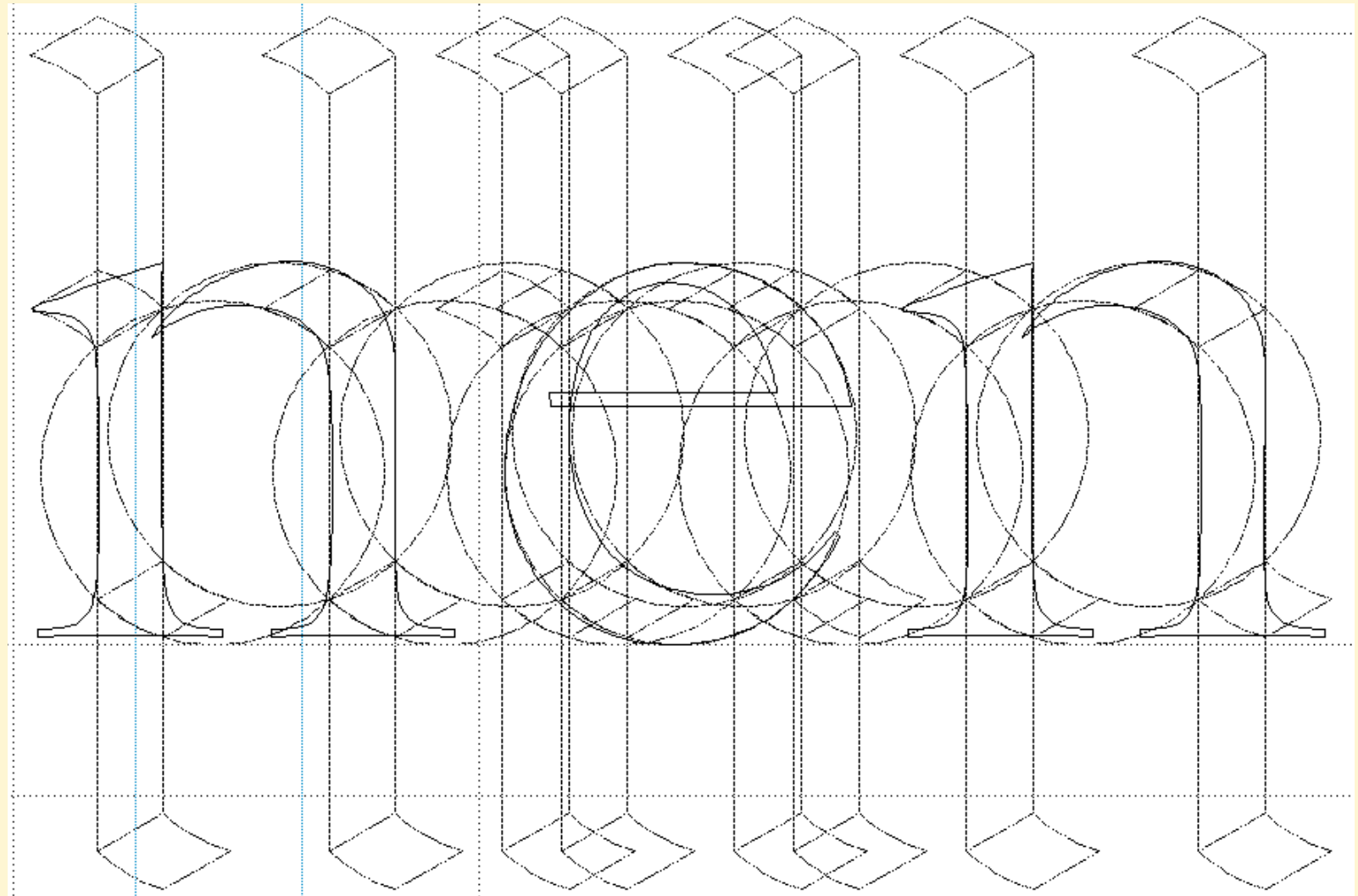
Poly- & Monoform

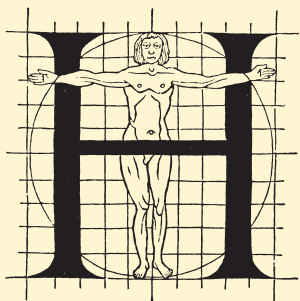
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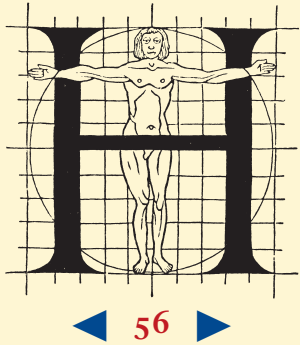
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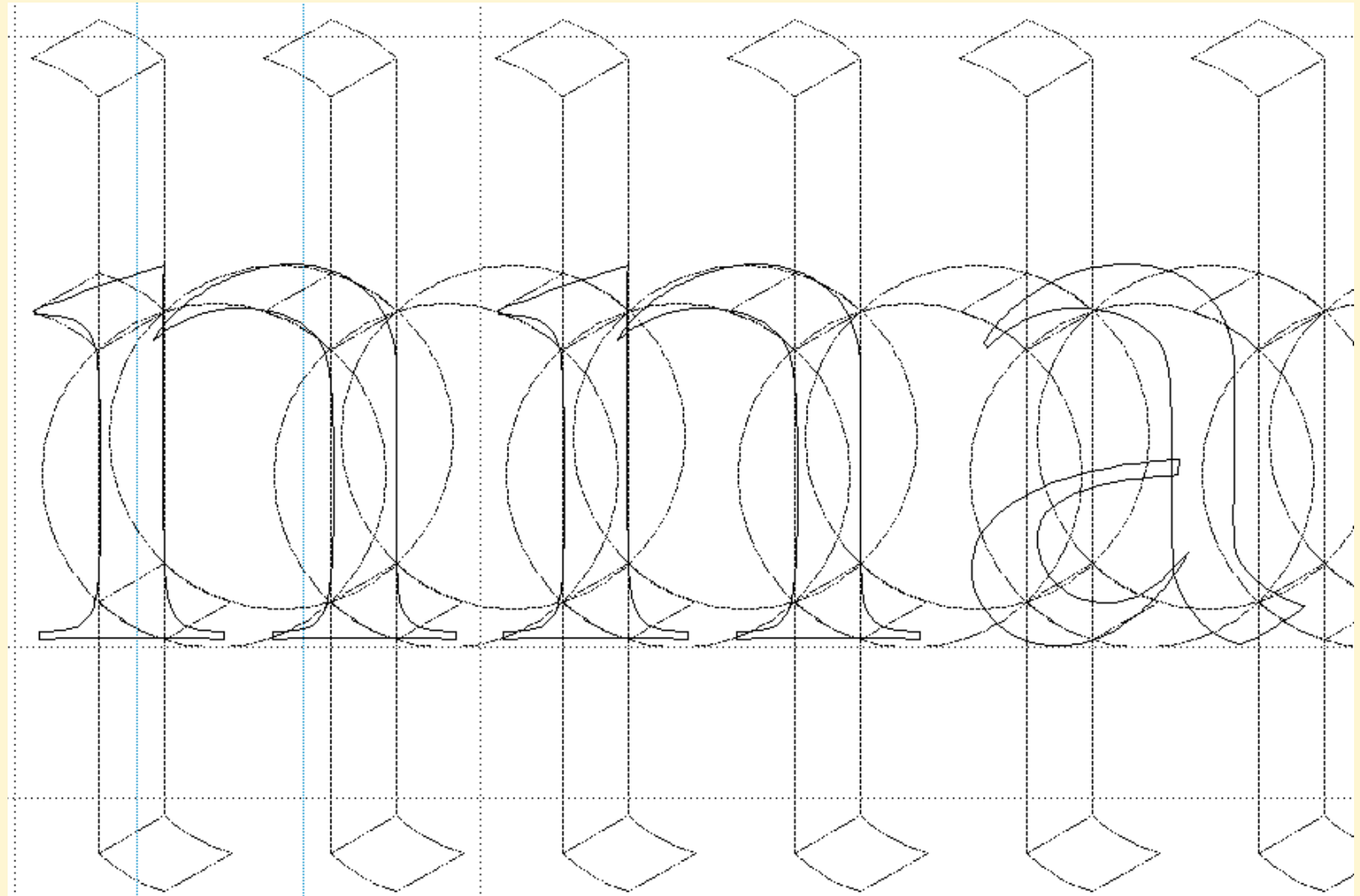
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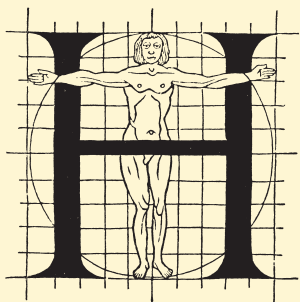
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– Harmonic

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Poly- & Monoform

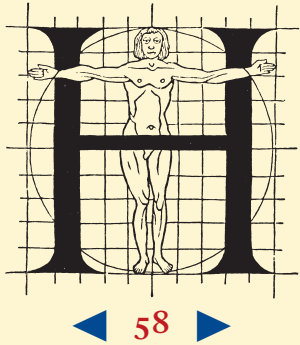
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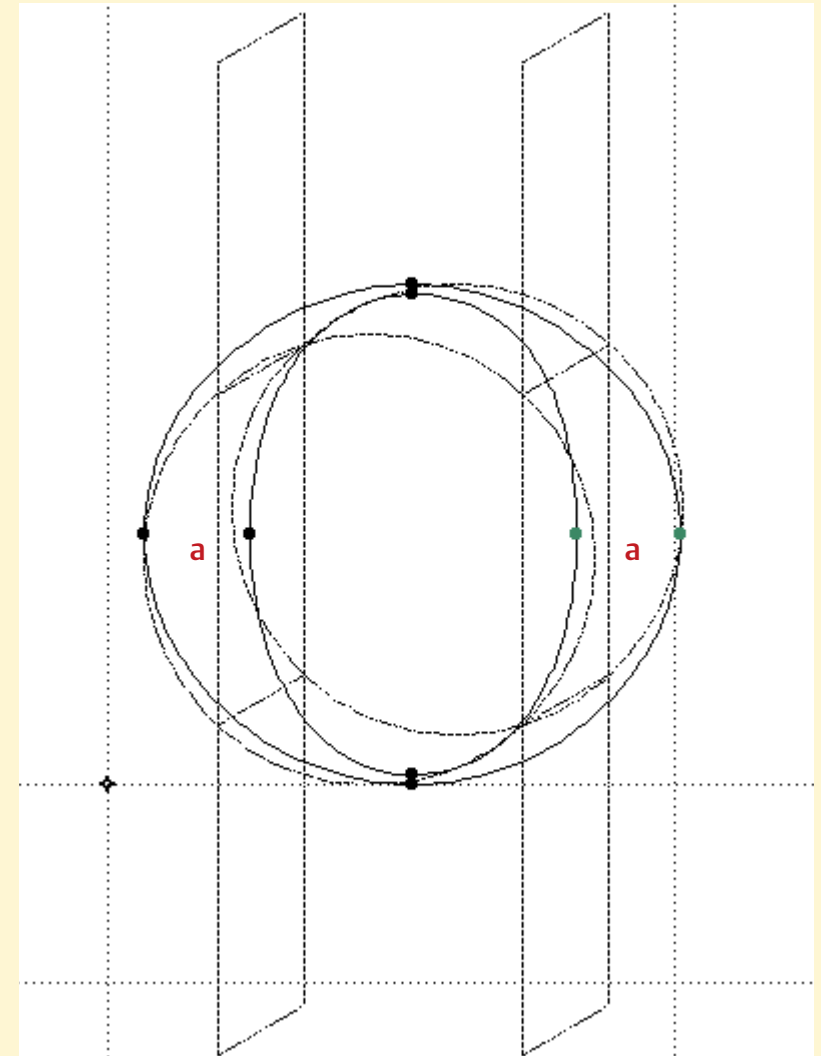
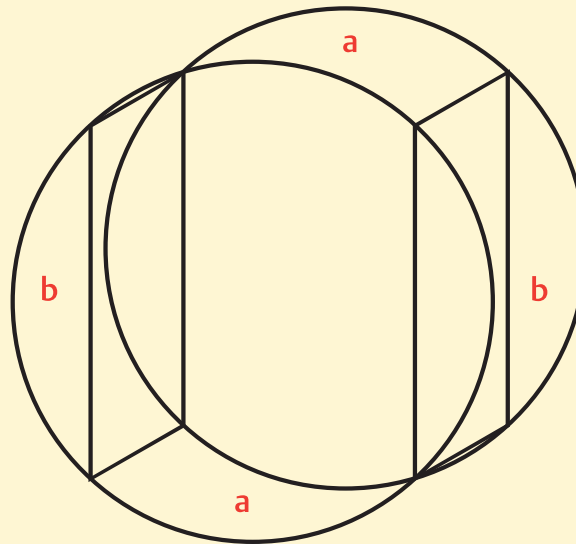
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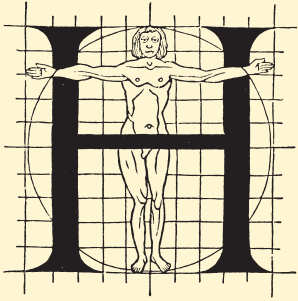
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Chor

Sopran

Alt

Tenor

Baß

Klavier-Auszug

Trio

I. Violinen

II. Violinen

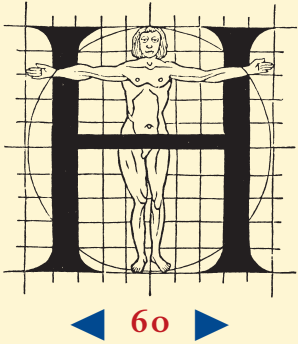
Bratschen

Kontrabässe

b.q

Counterpoint

b|q



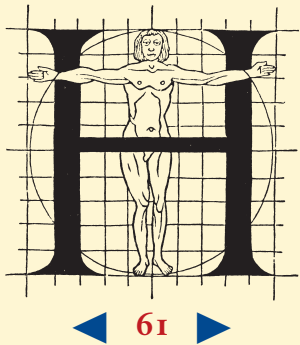
III. Form structures

‘Type design moves at the pace of the most conservative reader.’

Stanley Morison

(First Principles of Typography, 1936)

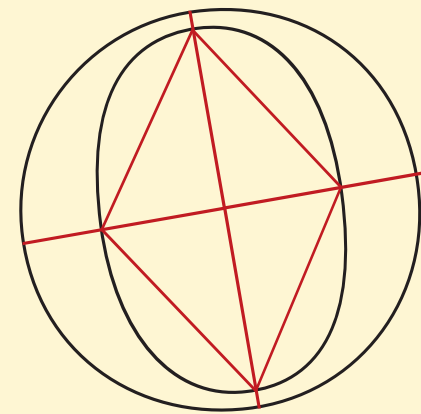
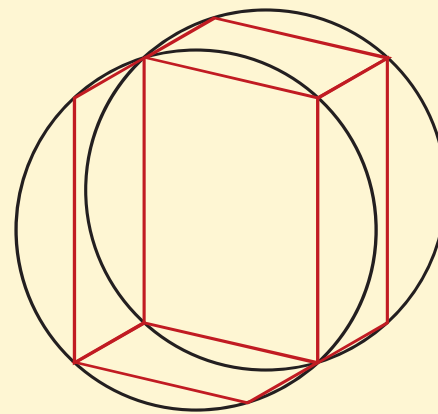
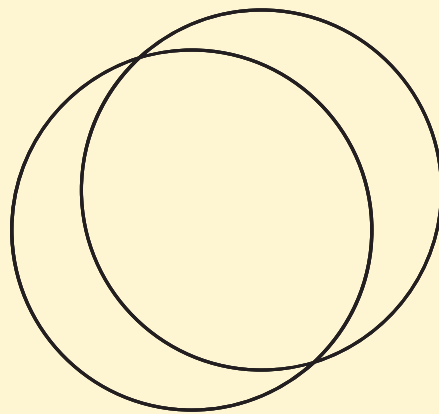
- ▶ Introduction
- ▶ Harmonic Systems
- ▶ **Form Structures**
- ▶ Details
- ▶ Legibility
- ▶ Automation

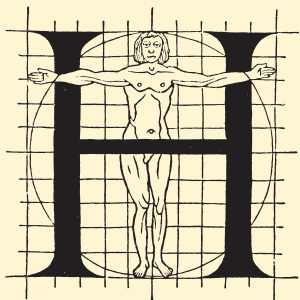


AUTOMATING TYPE DESIGN PROCESSES

FRANK E. BLOKLAND

- ▶ Introduction
- ▶ Harmonic Systems
- ▶ Form Structures
- ▶ Details
- ▶ Legibility
- ▶ Automation





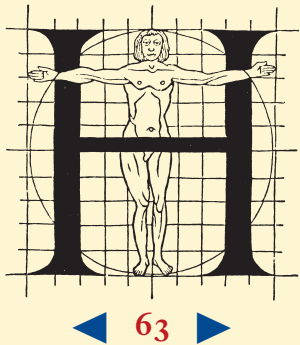
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AUTOMATING TYPE DESIGN PROCESSES

FRANK E. BLOKLAND

- ▶ Introduction
- ▶ Harmonic Systems
- ▶ Form Structures
- ▶ Details
- ▶ Legibility
- ▶ Automation

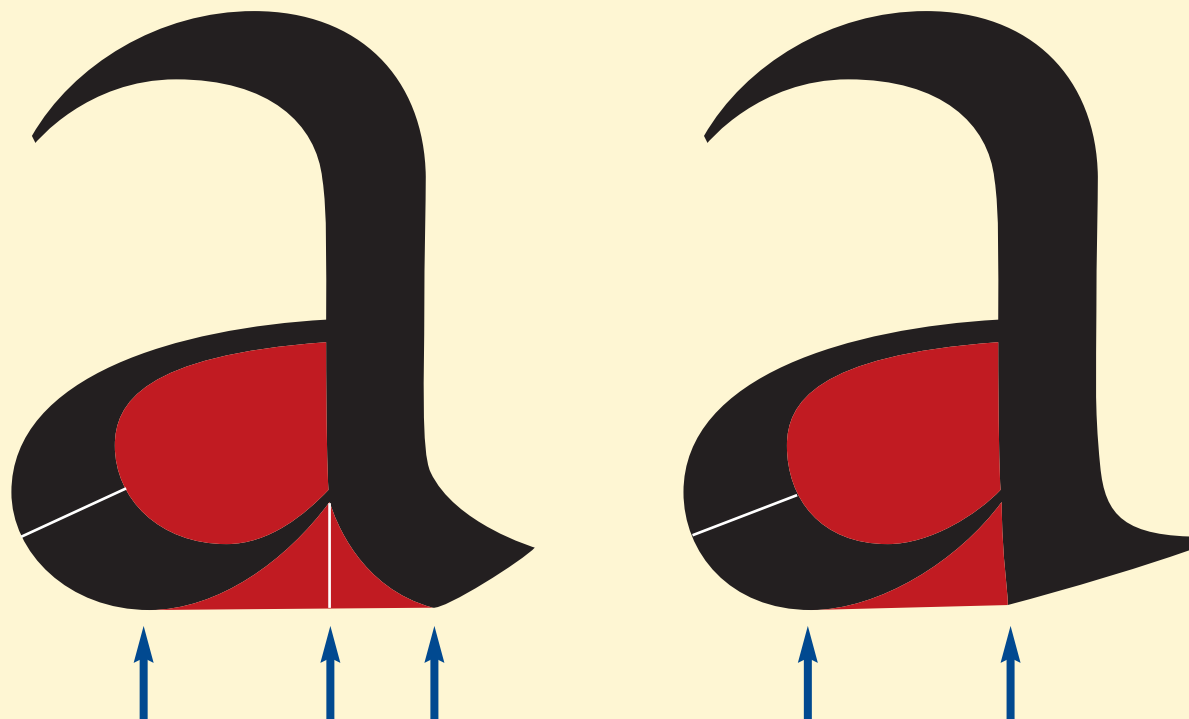
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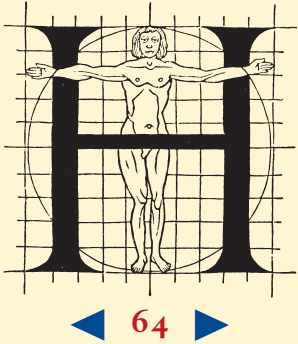


AUTOMATING TYPE DESIGN PROCESSES

FRANK E. BLOKLAND

- ▶ Introduction
- ▶ Harmonic Systems
- ▶ Form Structures
- ▶ Details
- ▶ Legibility
- ▶ Automation



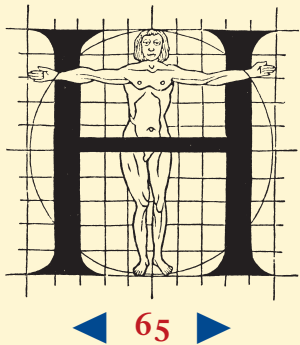


IV. Details

- ▶ Introduction
- ▶ Harmonic Systems
- ▶ Form Structures
- ▶ Details
- ▶ Legibility
- ▶ Automation

*‘Make everything as simple as possible,
but not simpler.’*

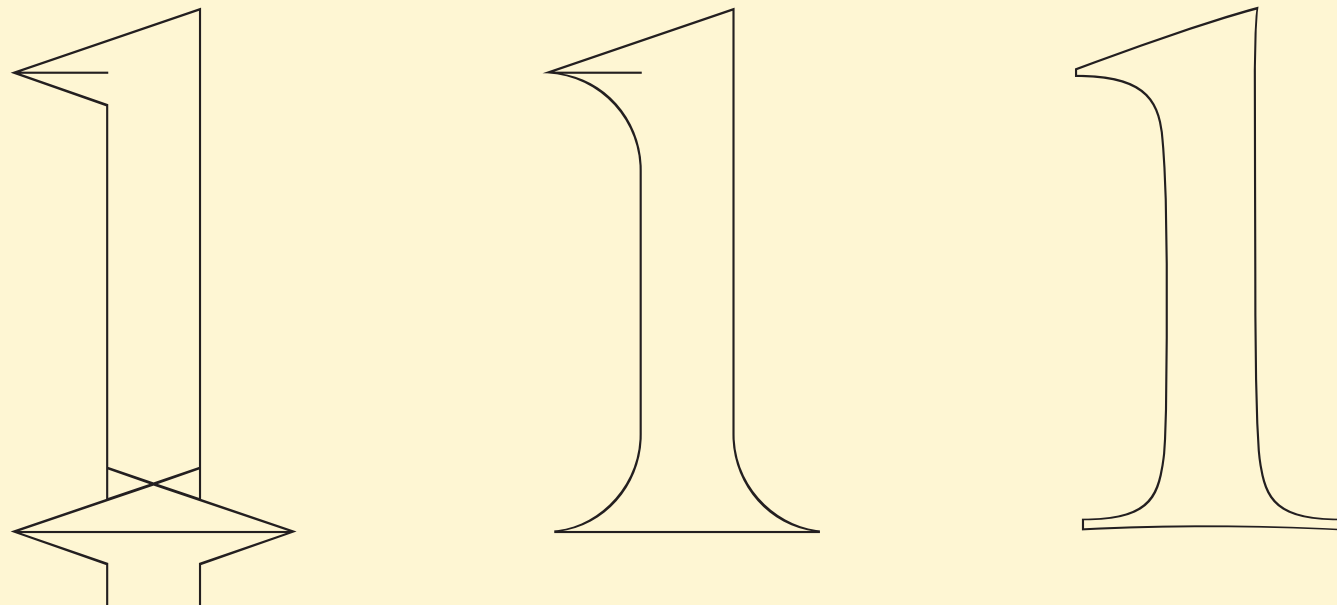
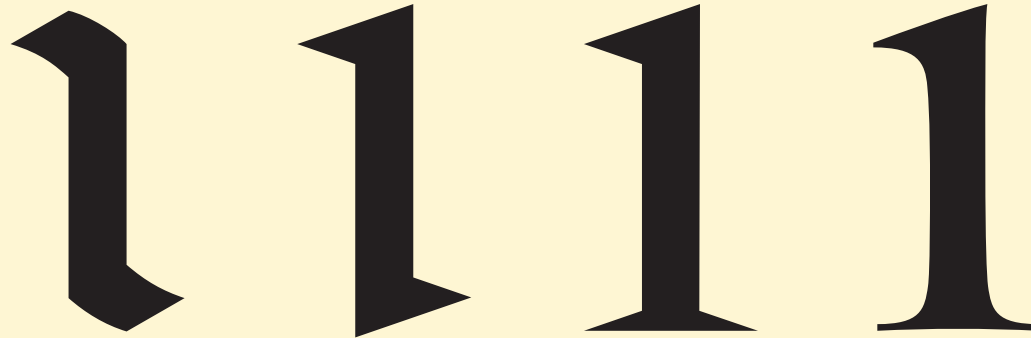
Albert Einstein

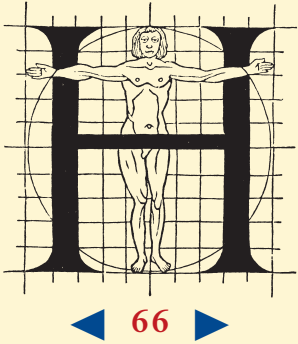


AUTOMATING TYPE DESIGN PROCESSES

FRANK E. BLOKLAND

- ▶ Introduction
- ▶ Harmonic Systems
- ▶ Form Structures
- ▼ Details
 - Optical
 - Serifs
 - Detail-progression
 - Idiom
- ▶ Legibility
- ▶ Automation





- ▶ Introduction
- ▶ Harmonic Systems
- ▶ Form Structures
- ▼ Details
 - Optical
 - Serifs
 - Detail-progression
 - Idiom
- ▶ Legibility
- ▶ Automation

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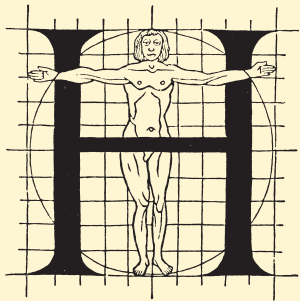
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Sans serif

A f l s

Serif

- A serif marks the ending of a stroke, is a representation of the contrast and can be an indication of the contrast-flow, i.e. the contrast-sort.

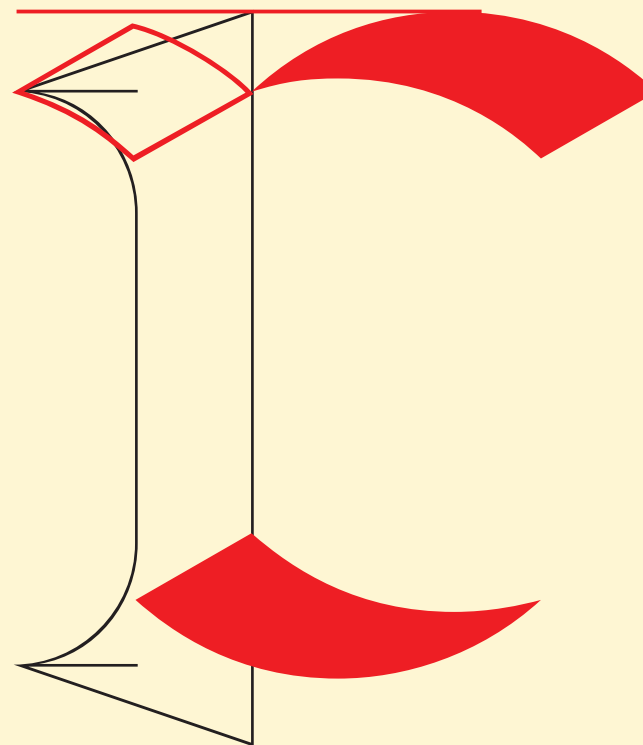


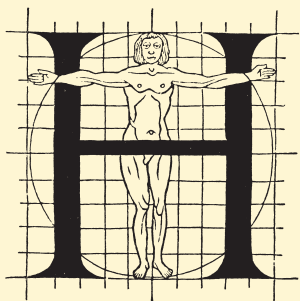
◀ 67 ▶

AUTOMATING TYPE DESIGN PROCESSES

FRANK E. BLOKLAND

- ▶ Introduction
- ▶ Harmonic Systems
- ▶ Form Structures
- ▼ Details
 - Optical
 - Serifs
 - Detail-progression
 - Idiom
- ▶ Legibility
- ▶ Automation



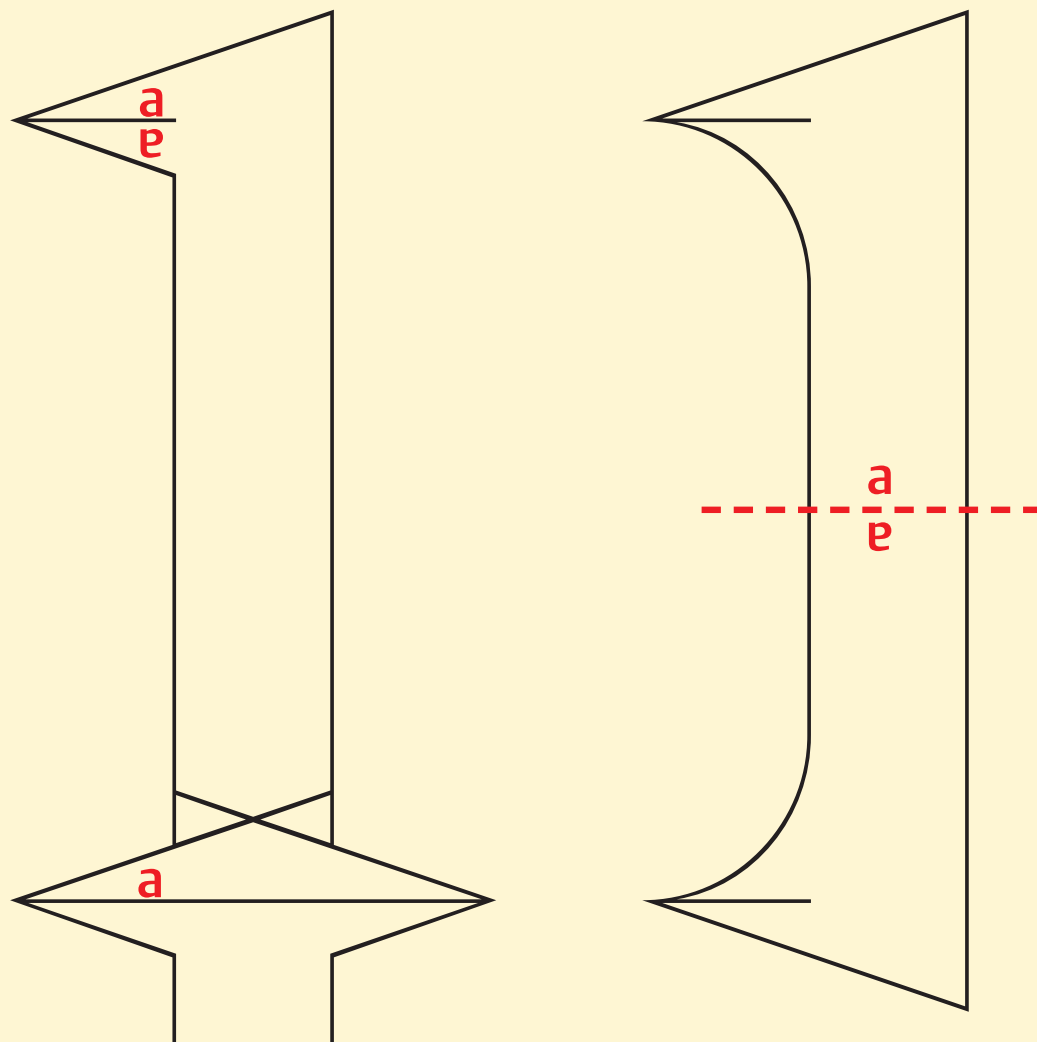


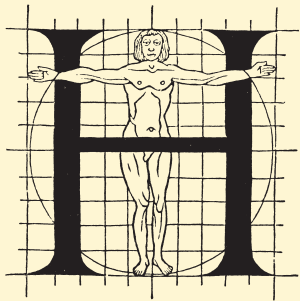
◀ 68 ▶

AUTOMATING TYPE DESIGN PROCESSES

FRANK E. BLOKLAND

- ▶ Introduction
- ▶ Harmonic Systems
- ▶ Form Structures
- ▼ Details
 - Optical
 - Serifs
 - Detail-progression
 - Idiom
- ▶ Legibility
- ▶ Automation





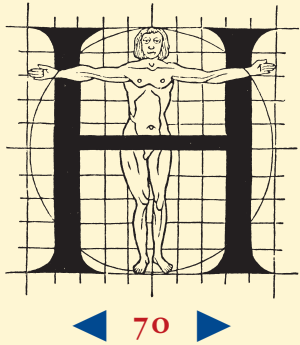
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AUTOMATING TYPE DESIGN PROCESSES

FRANK E. BLOKLAND

- ▶ Introduction
- ▶ Harmonic Systems
- ▶ Form Structures
- ▼ Details
 - Optical
 - Serifs
 - Detail-progression
 - Idiom
- ▶ Legibility
- ▶ Automation



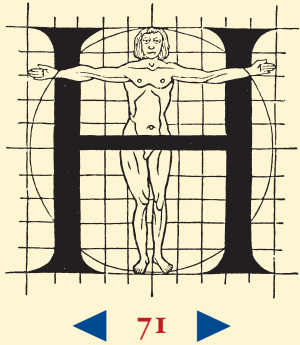


AUTOMATING TYPE DESIGN PROCESSES

FRANK E. BLOKLAND

- ▶ Introduction
- ▶ Harmonic Systems
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 - Detail-progression
 - Idiom
- ▶ Legibility
- ▶ Automation



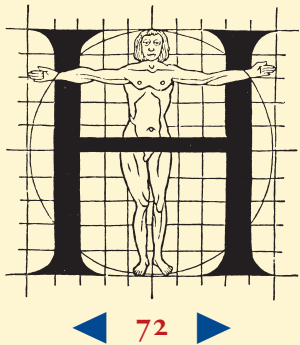


AUTOMATING TYPE DESIGN PROCESSES

FRANK E. BLOKLAND

- ▶ Introduction
- ▶ Harmonic Systems
- ▶ Form Structures
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 - Serifs
 - Detail-progression
 - Idiom
- ▶ Legibility
- ▶ Automation



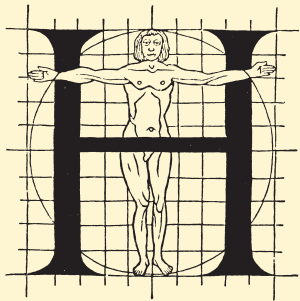


AUTOMATING TYPE DESIGN PROCESSES

FRANK E. BLOKLAND

- ▶ Introduction
- ▶ Harmonic Systems
- ▶ Form Structures
- ▼ Details
 - Optical
 - Serifs
 - Detail-progression
 - Idiom
- ▶ Legibility
- ▶ Automation





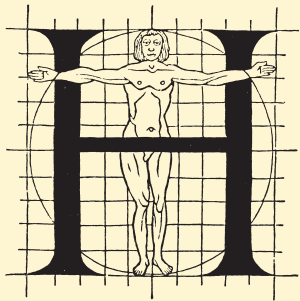
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AUTOMATING TYPE DESIGN PROCESSES

FRANK E. BLOKLAND

- ▶ Introduction
- ▶ Harmonic Systems
- ▶ Form Structures
- ▼ Details
 - Optical
 - Serifs
 - Detail-progression
 - Idiom
- ▶ Legibility
- ▶ Automation





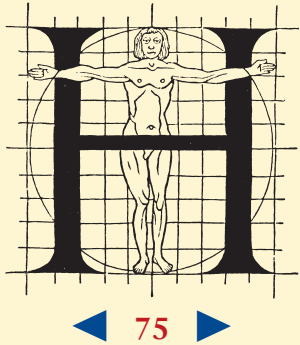
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AUTOMATING TYPE DESIGN PROCESSES

FRANK E. BLOKLAND

- ▶ Introduction
- ▶ Harmonic Systems
- ▶ Form Structures
- ▼ Details
 - Optical
 - Serifs
 - Detail-progression
 - Idiom
- ▶ Legibility
- ▶ Automation



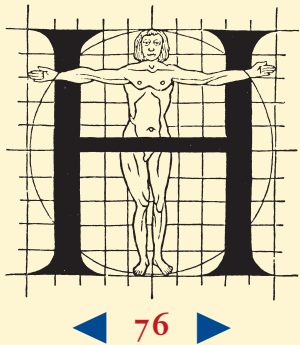


AUTOMATING TYPE DESIGN PROCESSES

FRANK E. BLOKLAND

- ▶ Introduction
- ▶ Harmonic Systems
- ▶ Form Structures
- ▼ Details
 - Optical
 - Serifs
 - Detail-progression
 - Idiom
- ▶ Legibility
- ▶ Automation



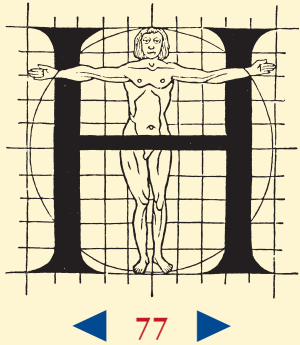


AUTOMATING TYPE DESIGN PROCESSES

FRANK E. BLOKLAND

- ▶ Introduction
- ▶ Harmonic Systems
- ▶ Form Structures
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 - Optical
 - Serifs
 - Detail-progression
 - Idiom
- ▶ Legibility
- ▶ Automation



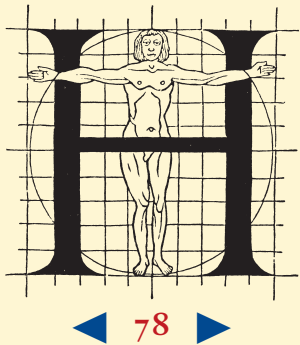


AUTOMATING TYPE DESIGN PROCESSES

FRANK E. BLOKLAND

- ▶ Introduction
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- ▶ Automation



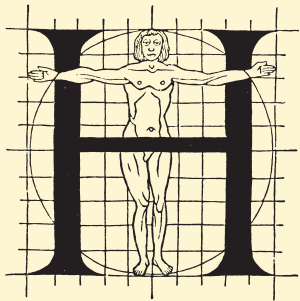


AUTOMATING TYPE DESIGN PROCESSES

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- ▶ Introduction
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 - Idiom
- ▶ Legibility
- ▶ Automation





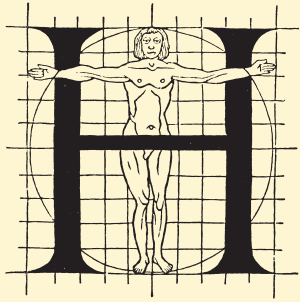
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AUTOMATING TYPE DESIGN PROCESSES

FRANK E. BLOKLAND

- ▶ Introduction
- ▶ Harmonic Systems
- ▶ Form Structures
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- ▶ Legibility
- ▶ Automation



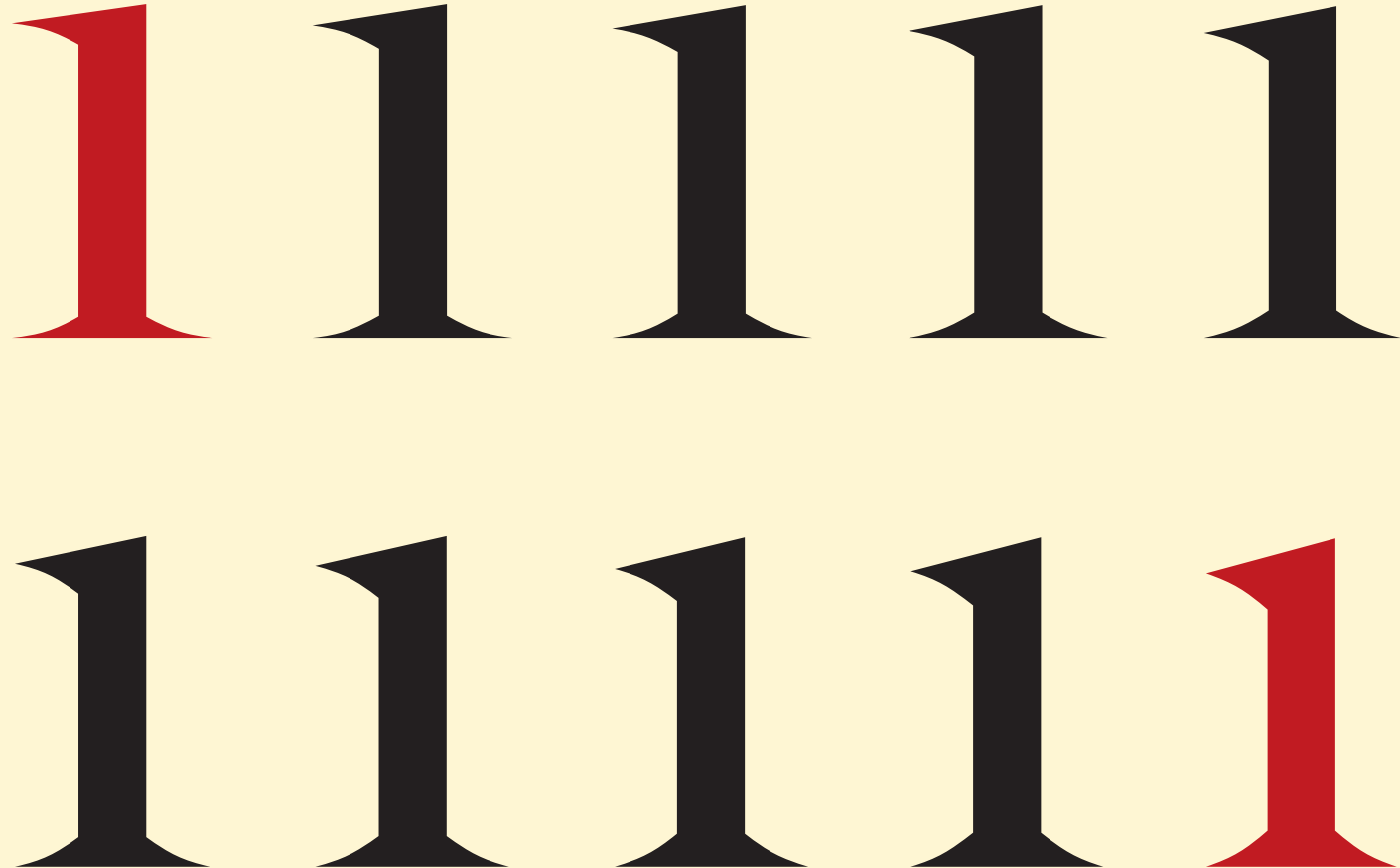


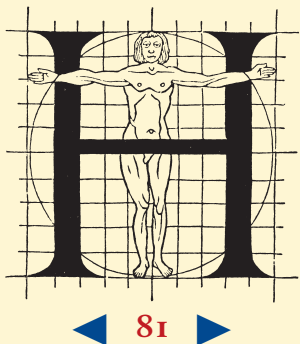
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AUTOMATING TYPE DESIGN PROCESSES

FRANK E. BLOKLAND

- ▶ Introduction
- ▶ Harmonic Systems
- ▶ Form Structures
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 - Optical
 - Serifs
 - Detail-progression
 - Idiom
- ▶ Legibility
- ▶ Automation

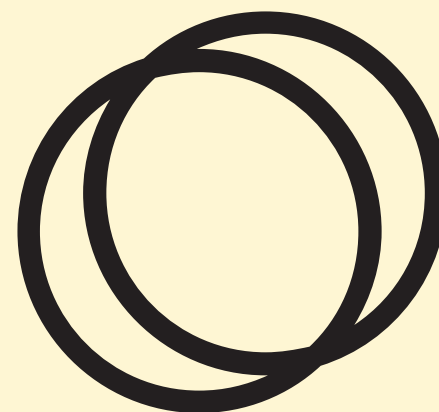
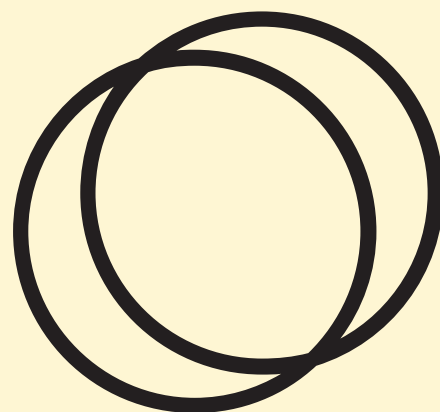
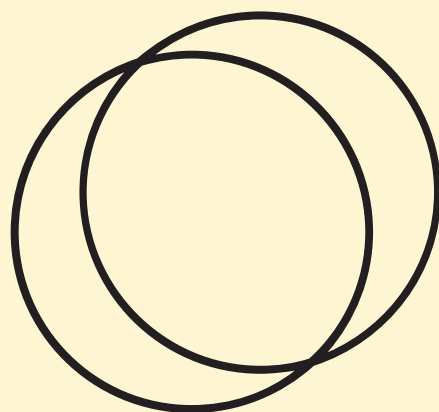


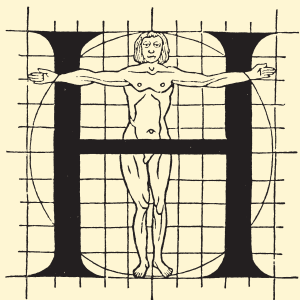


AUTOMATING TYPE DESIGN PROCESSES

FRANK E. BLOKLAND

- ▶ Introduction
- ▶ Harmonic Systems
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 - Optical
 - Serifs
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 - Idiom
- ▶ Legibility
- ▶ Automation



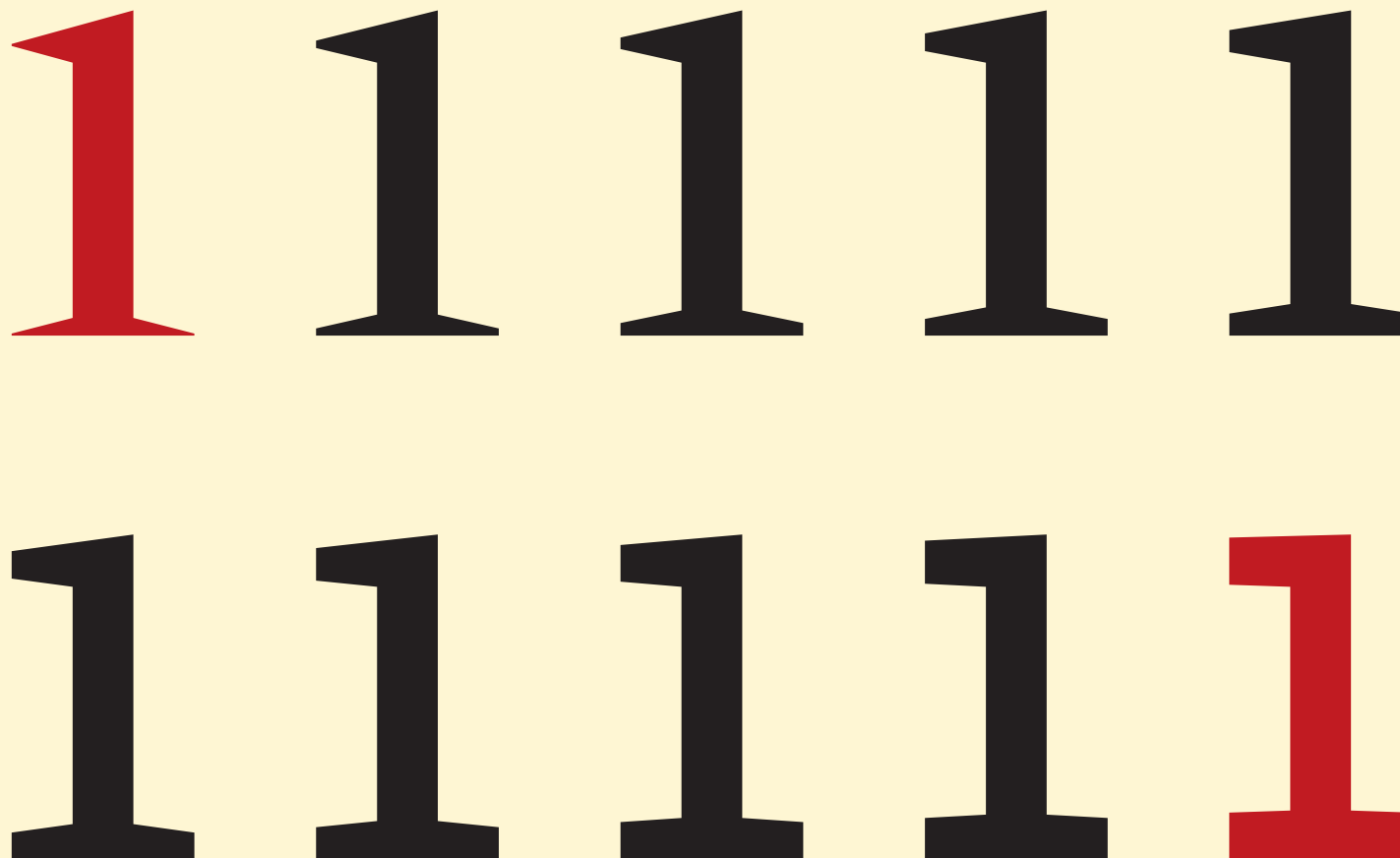


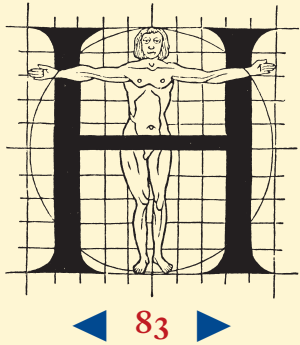
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AUTOMATING TYPE DESIGN PROCESSES

FRANK E. BLOKLAND

- ▶ Introduction
- ▶ Harmonic Systems
- ▶ Form Structures
- ▼ Details
 - Optical
 - Serifs
 - Detail-progression
 - Idiom
- ▶ Legibility
- ▶ Automation



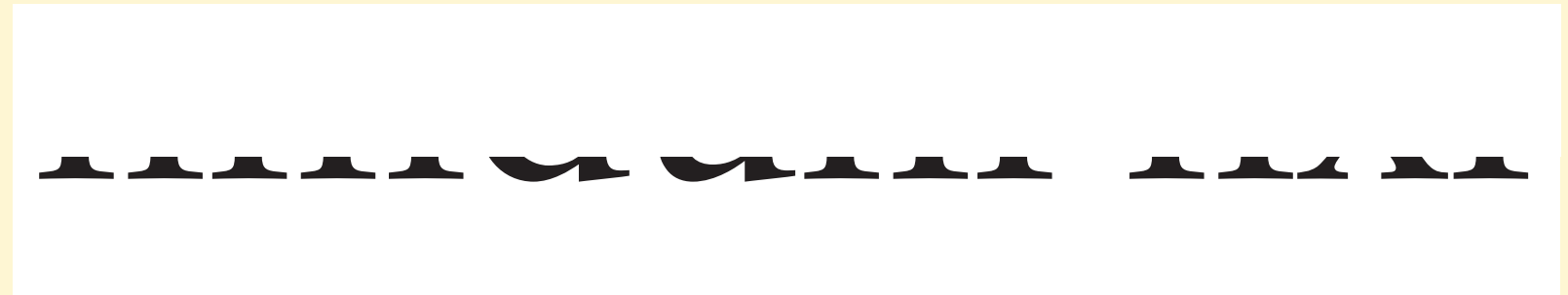


AUTOMATING TYPE DESIGN PROCESSES

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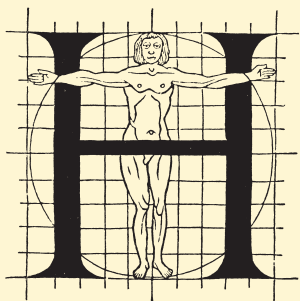


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- ▶ Introduction
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- ▶ Legibility
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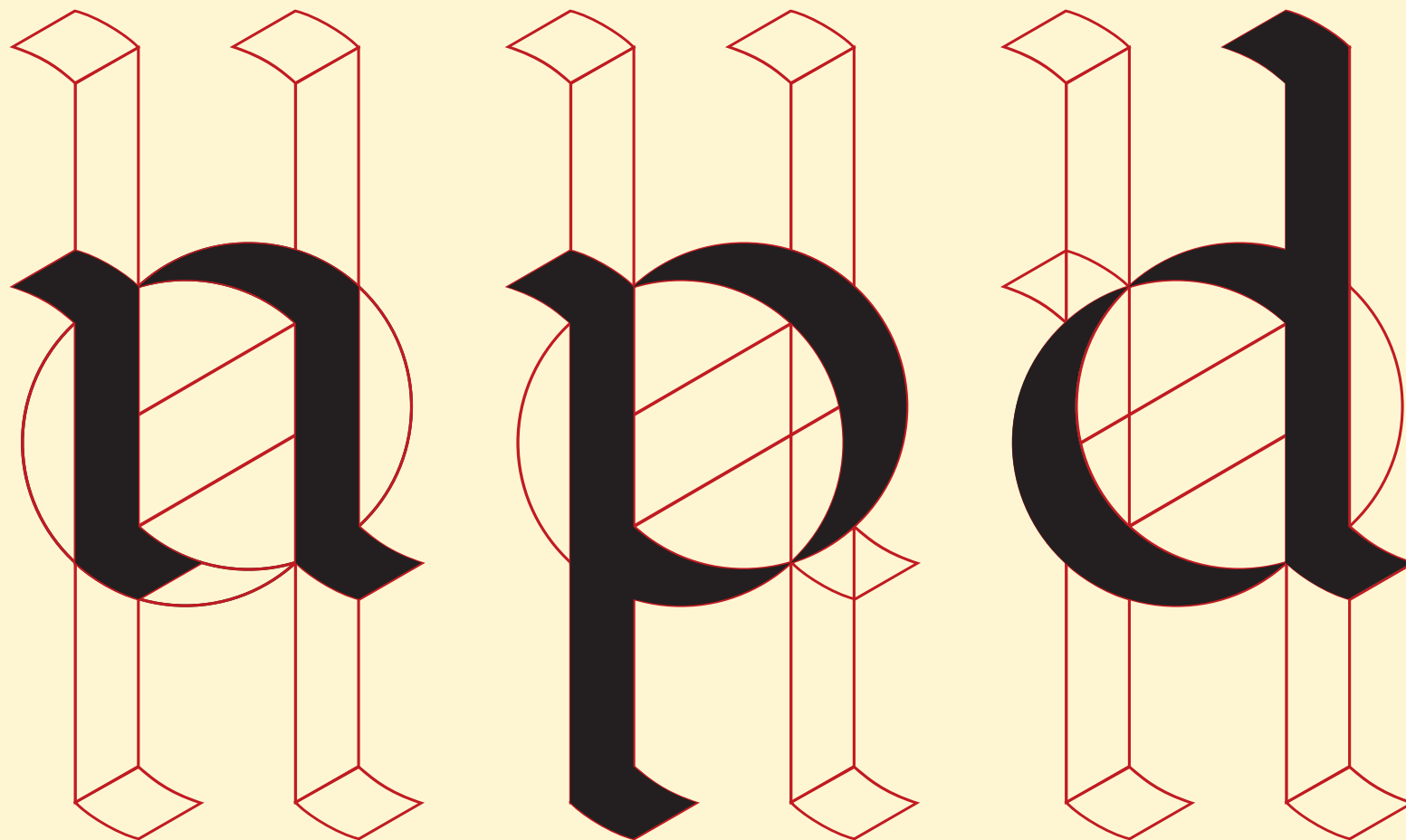


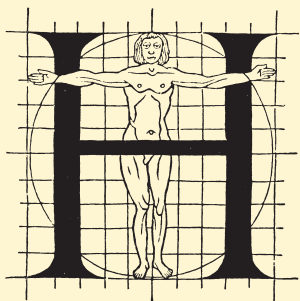
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AUTOMATING TYPE DESIGN PROCESSES

FRANK E. BLOKLAND

- ▶ Introduction
- ▶ Harmonic Systems
- ▶ Form Structures
- ▼ Details
 - Optical
 - Serifs
 - Detail-progression
 - Idiom
- ▶ Legibility
- ▶ Automation



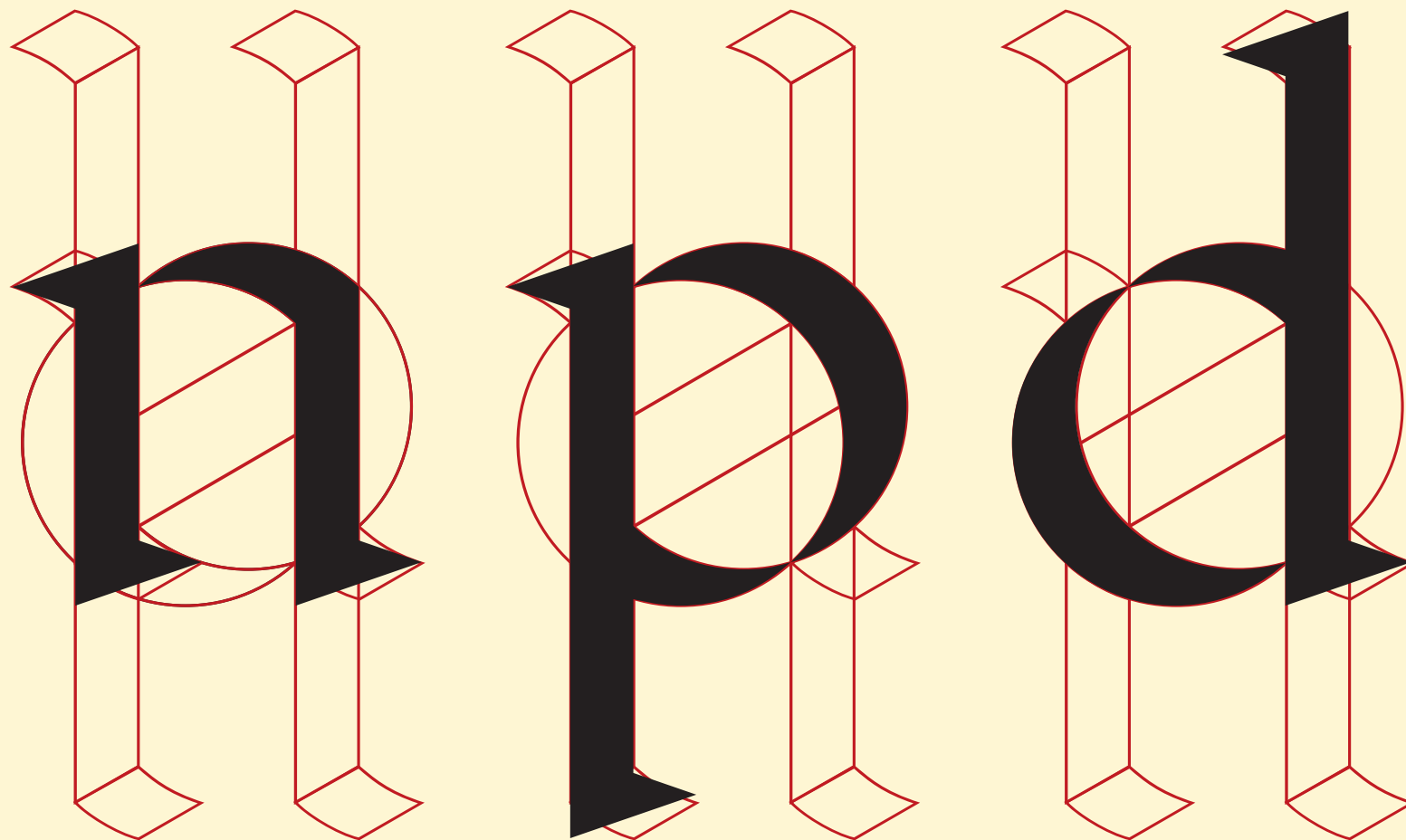


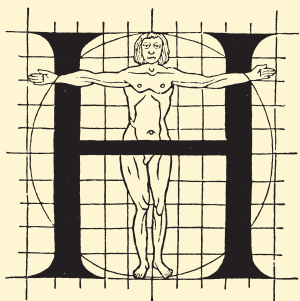
◀ 85 ▶

AUTOMATING TYPE DESIGN PROCESSES

FRANK E. BLOKLAND

- ▶ Introduction
- ▶ Harmonic Systems
- ▶ Form Structures
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- ▶ Legibility
- ▶ Automation



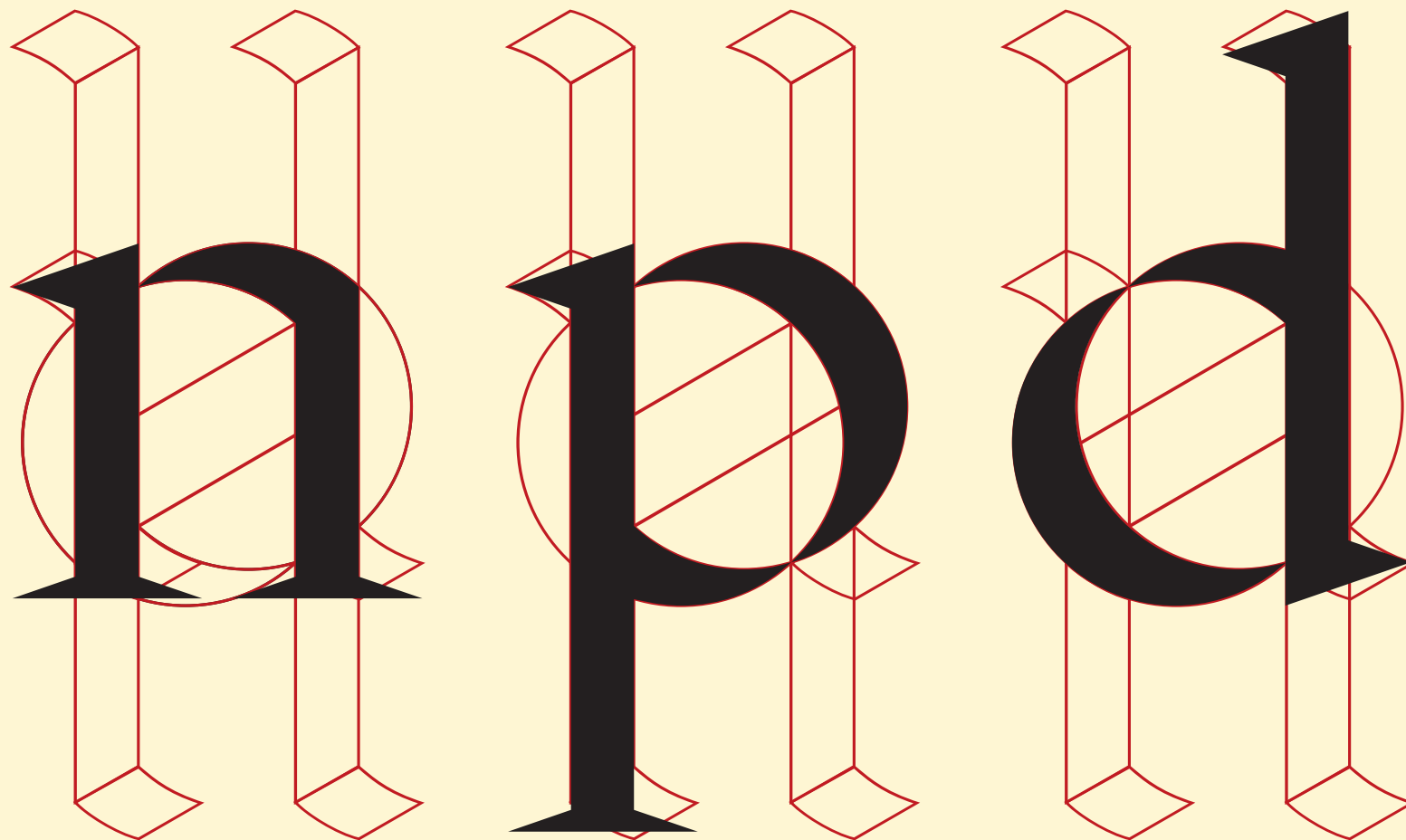


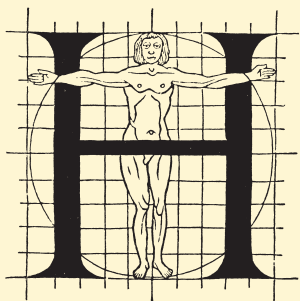
◀ 86 ▶

AUTOMATING TYPE DESIGN PROCESSES

FRANK E. BLOKLAND

- ▶ Introduction
- ▶ Harmonic Systems
- ▶ Form Structures
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 - Serifs
 - Detail-progression
 - Idiom
- ▶ Legibility
- ▶ Automation



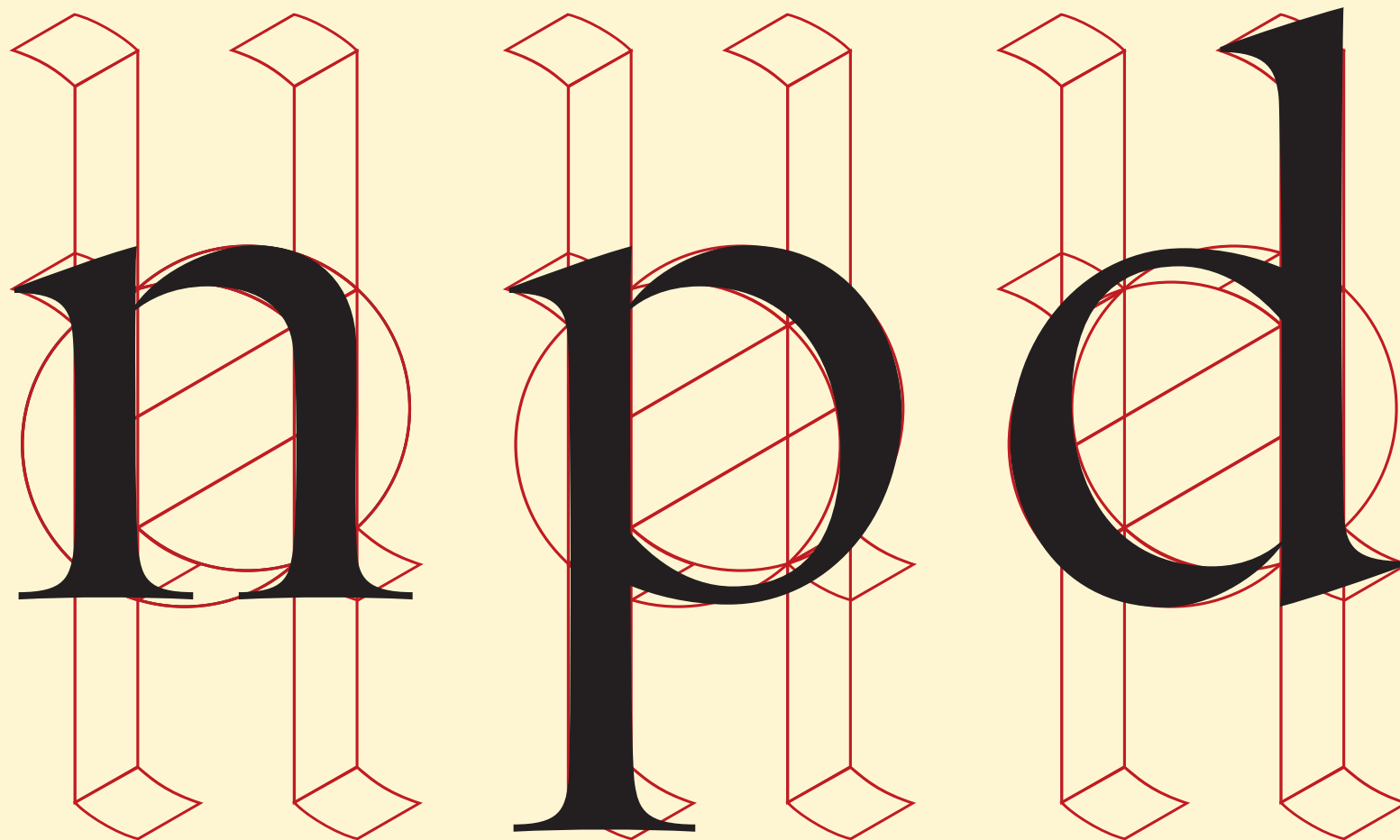


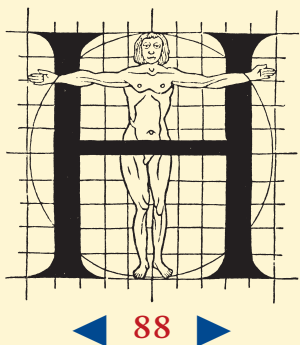
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AUTOMATING TYPE DESIGN PROCESSES

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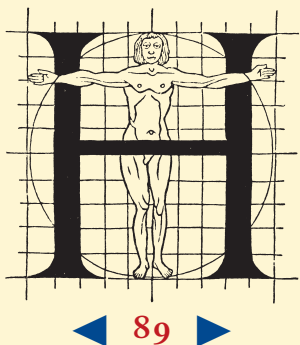
- ▶ Introduction
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- ▶ Legibility
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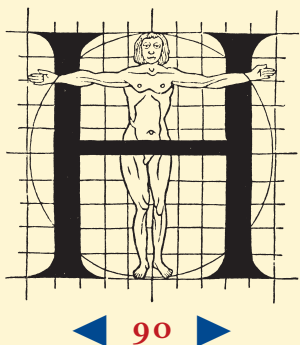
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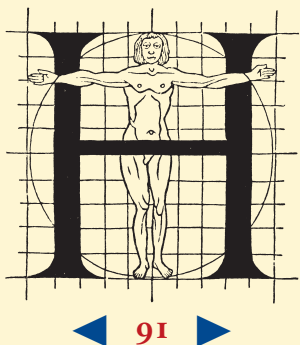
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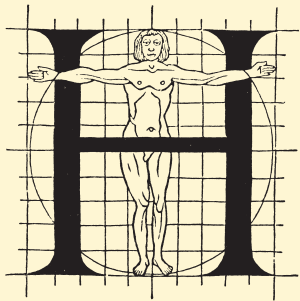
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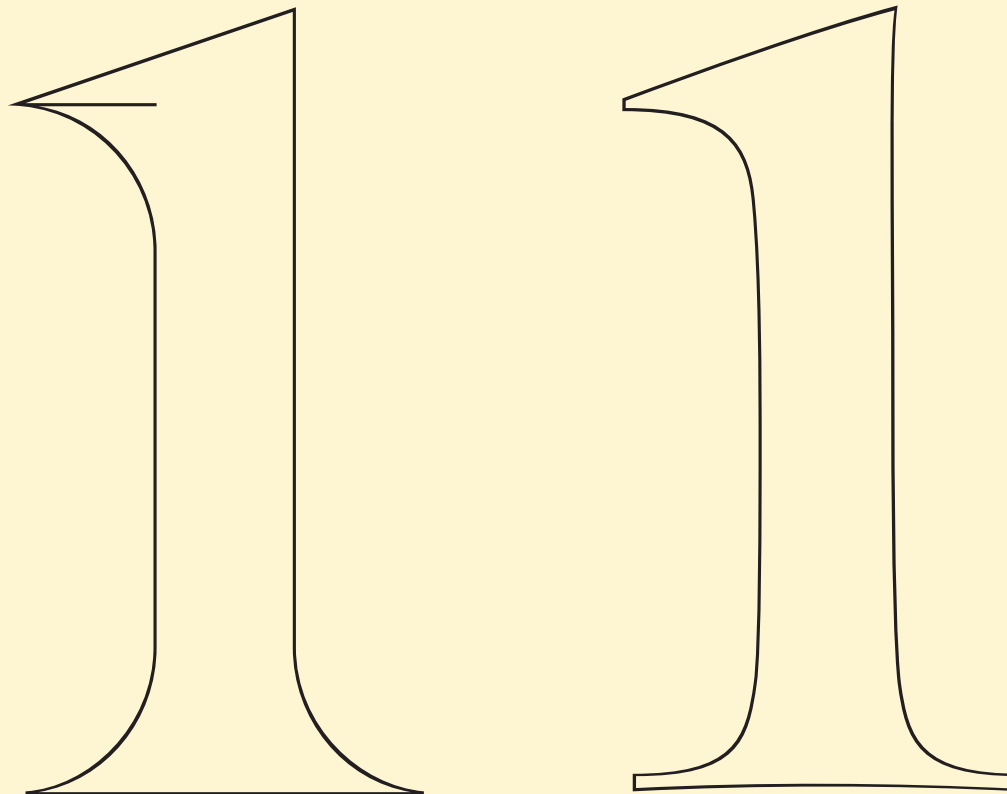


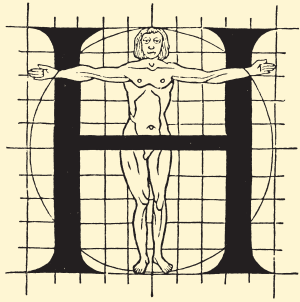
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AUTOMATING TYPE DESIGN PROCESSES

FRANK E. BLOKLAND

- ▶ Introduction
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- ▶ Form Structures
- ▼ Details
 - Optical
 - Serifs
 - Detail-progression
 - Idiom
- ▶ Legibility
- ▶ Automation



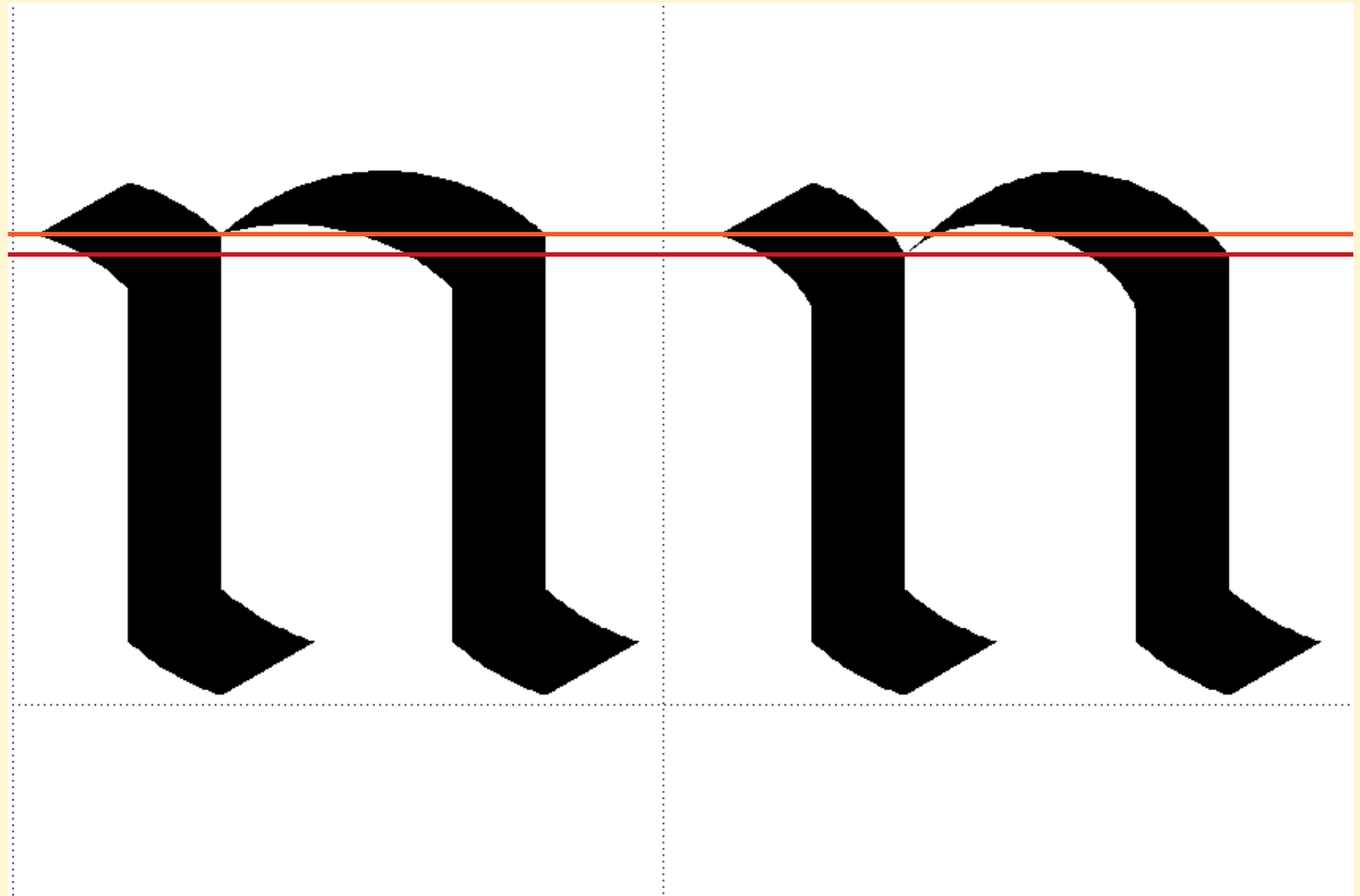


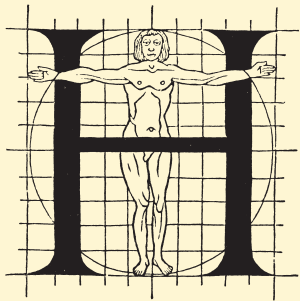
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AUTOMATING TYPE DESIGN PROCESSES

FRANK E. BLOKLAND

- ▶ Introduction
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- ▶ Form Structures
- ▼ Details
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 - Serifs
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 - Idiom
- ▶ Legibility
- ▶ Automation



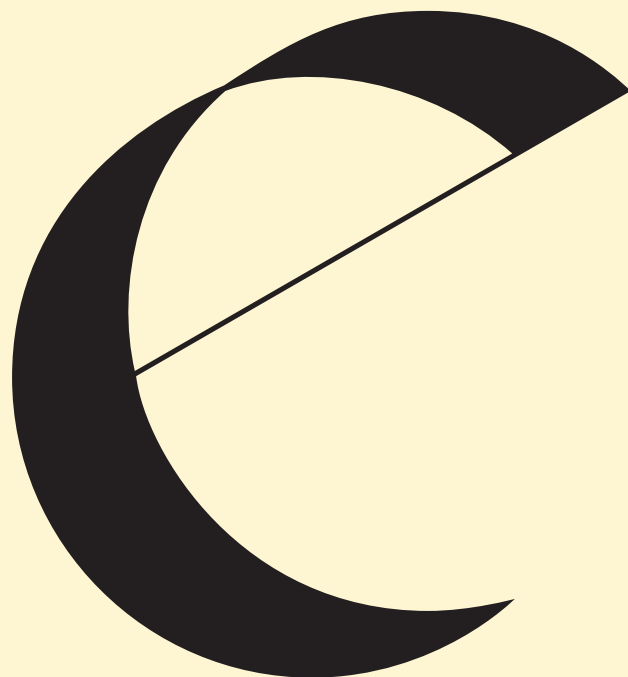


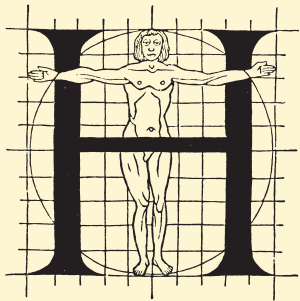
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AUTOMATING TYPE DESIGN PROCESSES

FRANK E. BLOKLAND

- ▶ Introduction
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- ▶ Form Structures
- ▼ Details
 - Optical
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 - Detail-progression
 - Idiom
- ▶ Legibility
- ▶ Automation



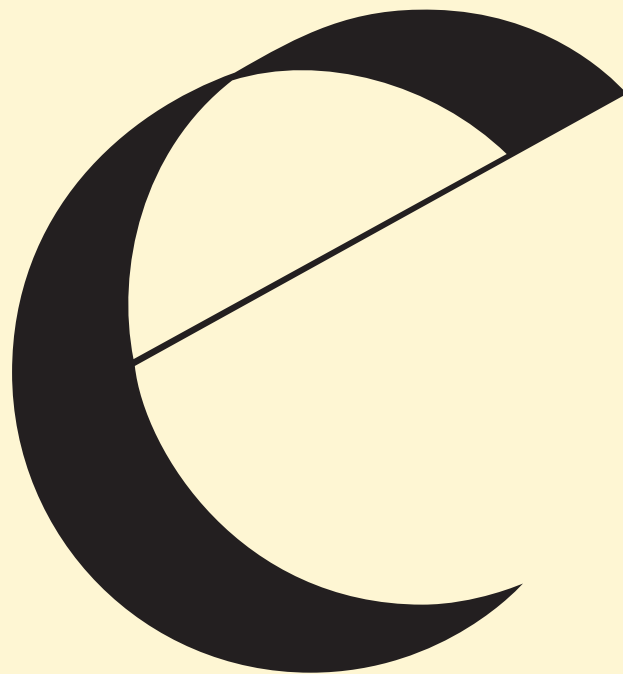


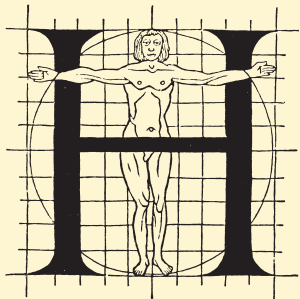
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AUTOMATING TYPE DESIGN PROCESSES

FRANK E. BLOKLAND

- ▶ Introduction
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- ▶ Legibility
- ▶ Automation



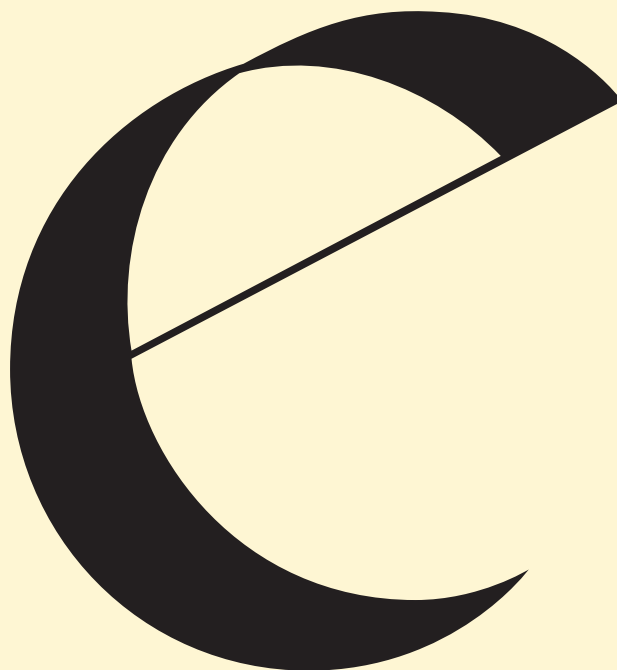


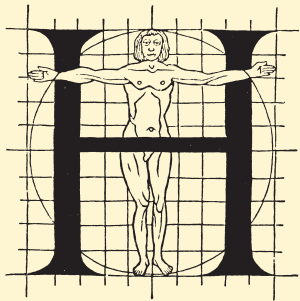
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AUTOMATING TYPE DESIGN PROCESSES

FRANK E. BLOKLAND

- ▶ Introduction
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 - Optical
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- ▶ Automation



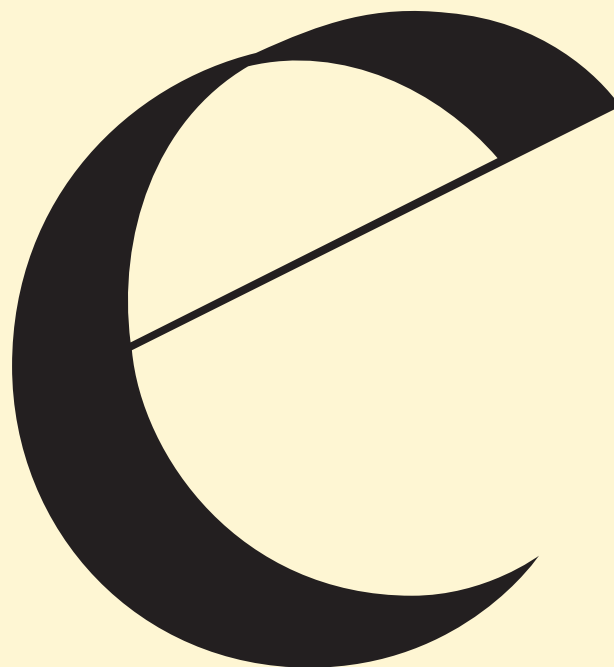


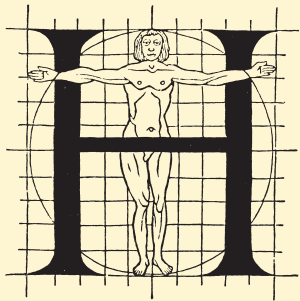
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AUTOMATING TYPE DESIGN PROCESSES

FRANK E. BLOKLAND

- ▶ Introduction
- ▶ Harmonic Systems
- ▶ Form Structures
- ▼ Details
 - Optical
 - Serifs
 - Detail-progression
 - Idiom
- ▶ Legibility
- ▶ Automation



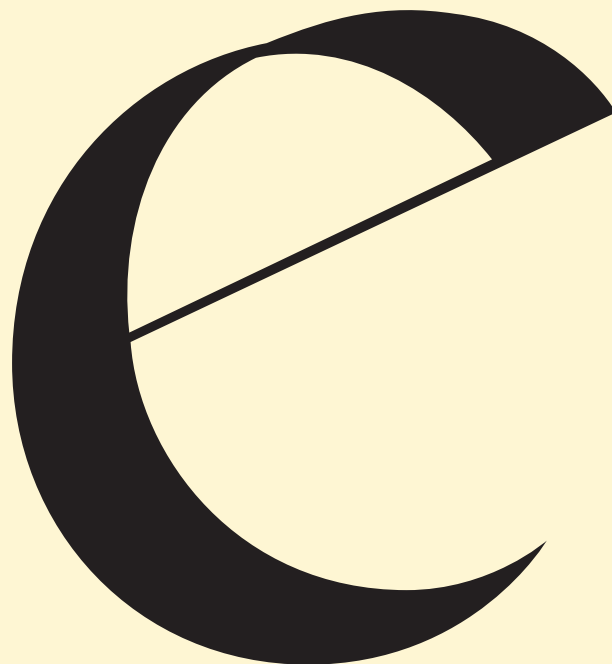


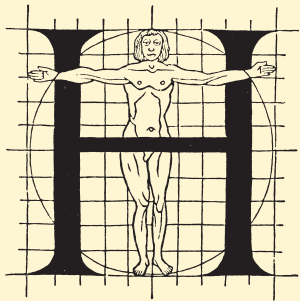
◀ 98 ▶

AUTOMATING TYPE DESIGN PROCESSES

FRANK E. BLOKLAND

- ▶ Introduction
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- ▶ Form Structures
- ▼ Details
 - Optical
 - Serifs
 - Detail-progression
 - Idiom
- ▶ Legibility
- ▶ Automation



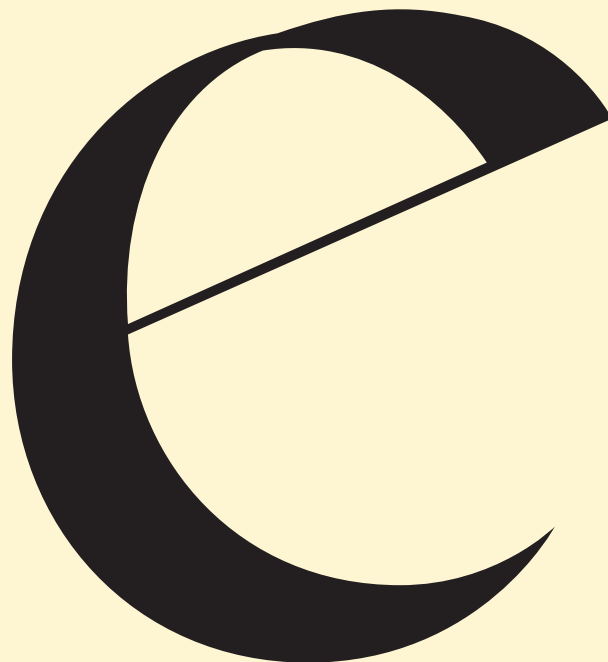


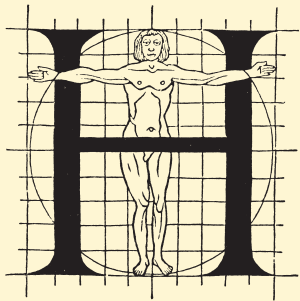
◀ 99 ▶

AUTOMATING TYPE DESIGN PROCESSES

FRANK E. BLOKLAND

- ▶ Introduction
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- ▶ Form Structures
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 - Optical
 - Serifs
 - Detail-progression
 - Idiom
- ▶ Legibility
- ▶ Automation



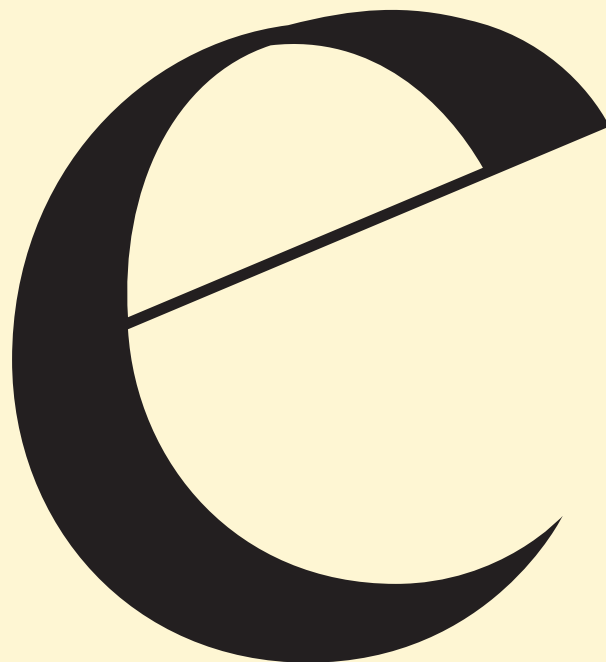


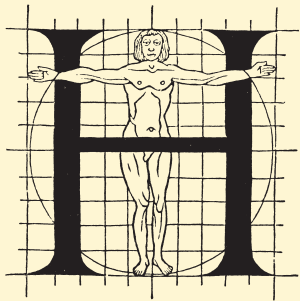
◀ 100 ▶

AUTOMATING TYPE DESIGN PROCESSES

FRANK E. BLOKLAND

- ▶ Introduction
- ▶ Harmonic Systems
- ▶ Form Structures
- ▼ Details
 - Optical
 - Serifs
 - Detail-progression
 - Idiom
- ▶ Legibility
- ▶ Automation





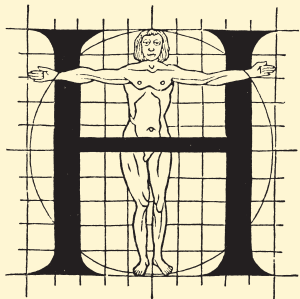
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AUTOMATING TYPE DESIGN PROCESSES

FRANK E. BLOKLAND

- ▶ Introduction
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- ▶ Form Structures
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 - Optical
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 - Idiom
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- ▶ Automation



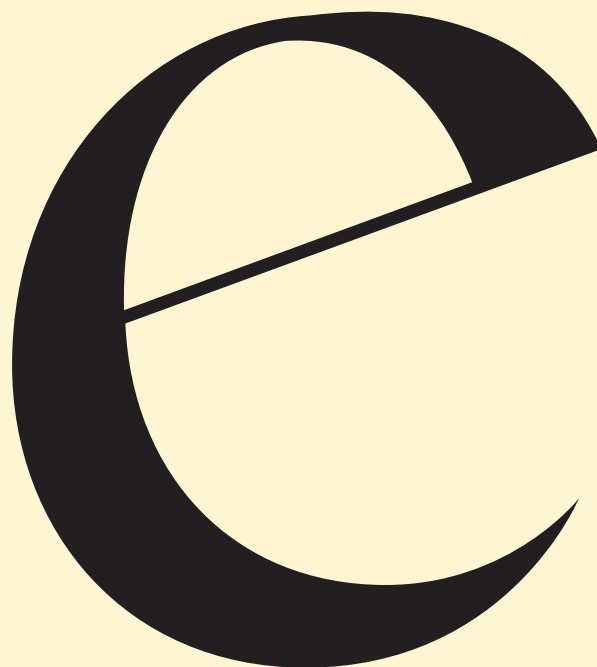


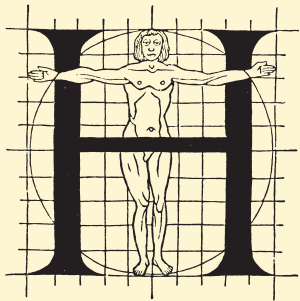
◀ 102 ▶

AUTOMATING TYPE DESIGN PROCESSES

FRANK E. BLOKLAND

- ▶ Introduction
- ▶ Harmonic Systems
- ▶ Form Structures
- ▼ Details
 - Optical
 - Serifs
 - Detail-progression
 - Idiom
- ▶ Legibility
- ▶ Automation



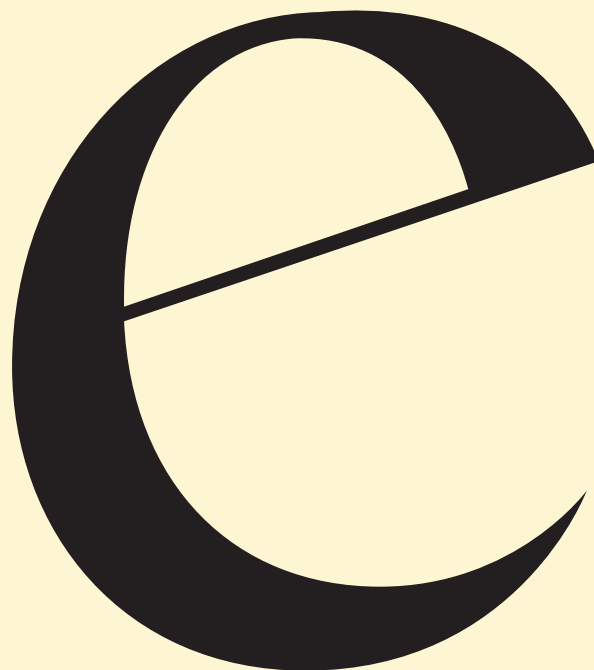


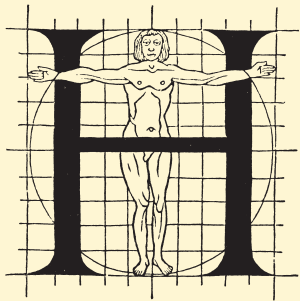
◀ 103 ▶

AUTOMATING TYPE DESIGN PROCESSES

FRANK E. BLOKLAND

- ▶ Introduction
- ▶ Harmonic Systems
- ▶ Form Structures
- ▼ Details
 - Optical
 - Serifs
 - Detail-progression
 - Idiom
- ▶ Legibility
- ▶ Automation



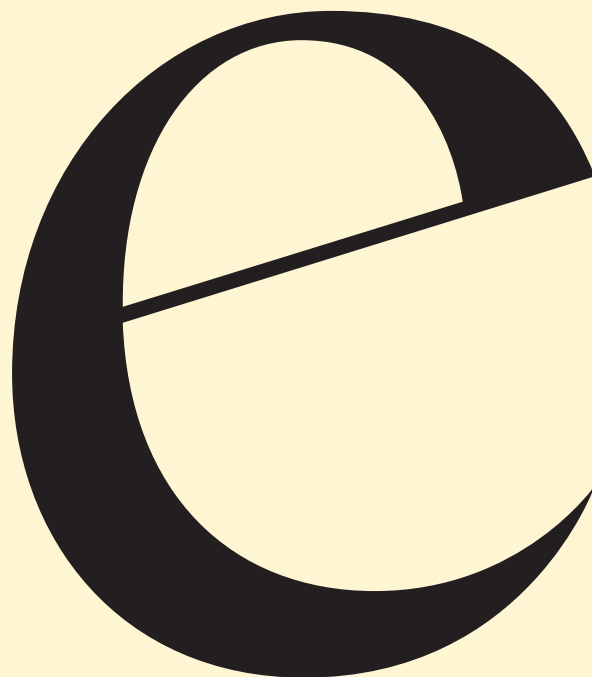


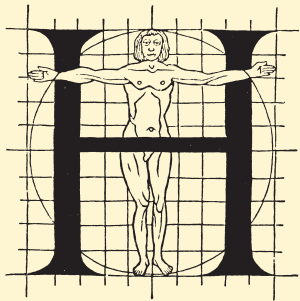
◀ 104 ▶

AUTOMATING TYPE DESIGN PROCESSES

FRANK E. BLOKLAND

- ▶ Introduction
- ▶ Harmonic Systems
- ▶ Form Structures
- ▼ Details
 - Optical
 - Serifs
 - Detail-progression
 - Idiom
- ▶ Legibility
- ▶ Automation



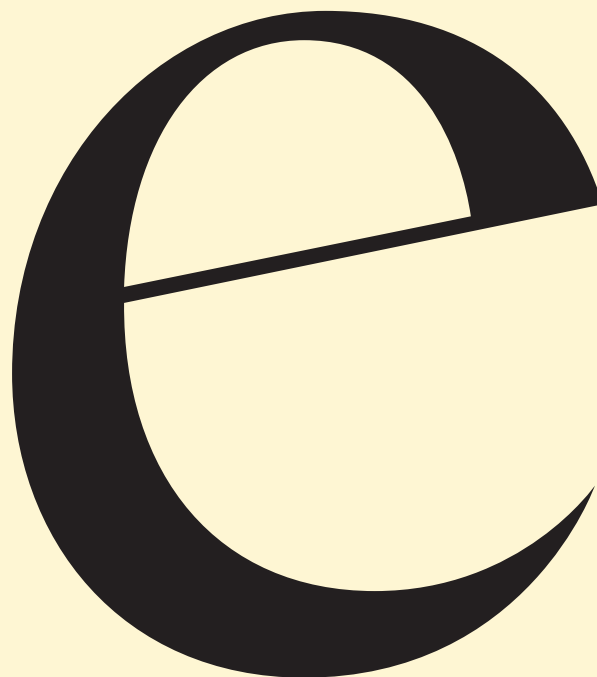


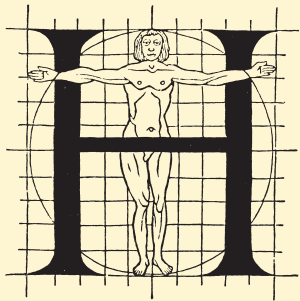
◀ 105 ▶

AUTOMATING TYPE DESIGN PROCESSES

FRANK E. BLOKLAND

- ▶ Introduction
- ▶ Harmonic Systems
- ▶ Form Structures
- ▼ Details
 - Optical
 - Serifs
 - Detail-progression
 - Idiom
- ▶ Legibility
- ▶ Automation



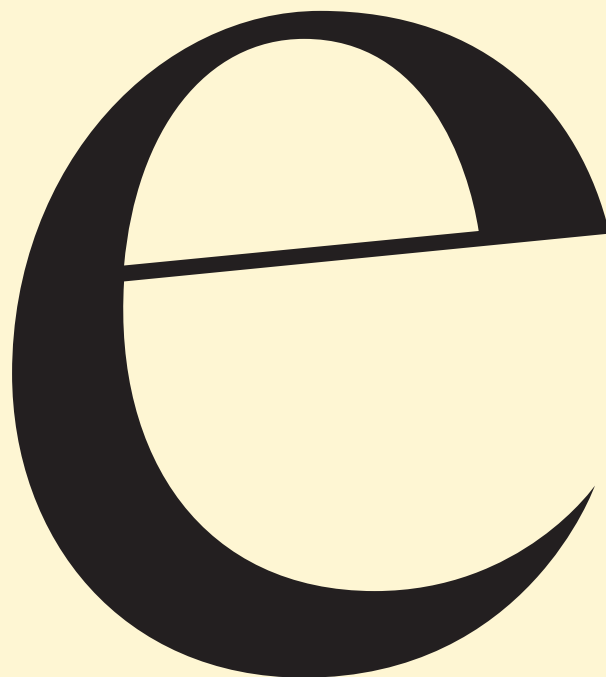


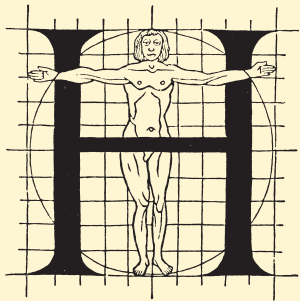
◀ 106 ▶

AUTOMATING TYPE DESIGN PROCESSES

FRANK E. BLOKLAND

- ▶ Introduction
- ▶ Harmonic Systems
- ▶ Form Structures
- ▼ Details
 - Optical
 - Serifs
 - Detail-progression
 - Idiom
- ▶ Legibility
- ▶ Automation



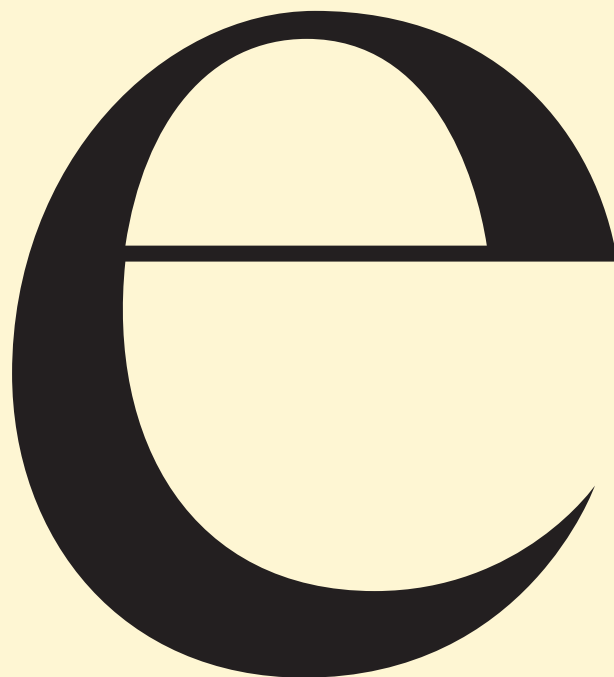


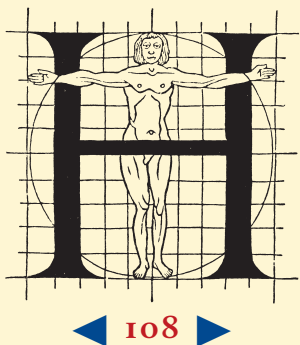
◀ 107 ▶

AUTOMATING TYPE DESIGN PROCESSES

FRANK E. BLOKLAND

- ▶ Introduction
- ▶ Harmonic Systems
- ▶ Form Structures
- ▼ Details
 - Optical
 - Serifs
 - Detail-progression
 - Idiom
- ▶ Legibility
- ▶ Automation



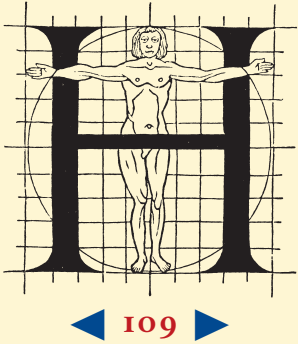


AUTOMATING TYPE DESIGN PROCESSES

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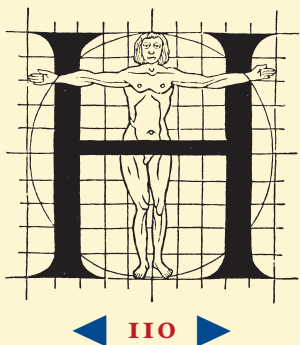
- ▶ Introduction
- ▶ Harmonic Systems
- ▶ Form Structures
- ▼ Details
 - Optical
 - Serifs
 - Detail-progression
 - Idiom
- ▶ Legibility
- ▶ Automation





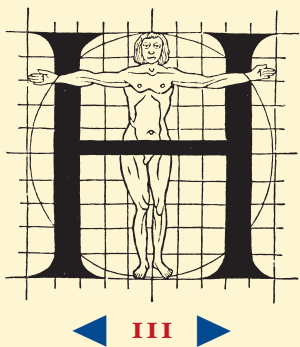
- ▶ Introduction
- ▶ Harmonic Systems
- ▶ Form Structures
- ▼ Details
 - Optical
 - Serifs
 - Detail-progression
 - Idiom
- ▶ Legibility
- ▶ Automation

The invention of printing from
movable types was one of the
chief events affecting the his-
tory of European civilization.
The task of duplicating texts



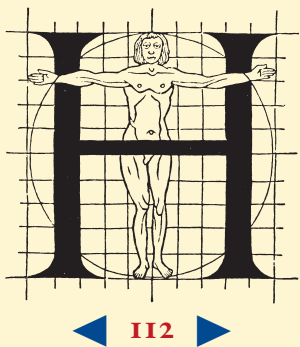
- ▶ Introduction
- ▶ Harmonic Systems
- ▶ Form Structures
- ▼ Details
 - Optical
 - Serifs
 - Detail-progression
 - Idiom
- ▶ Legibility
- ▶ Automation

The invention of printing
from movable types was one
of the chief events affecting
the history of European civi-
lization. The task of dupli-



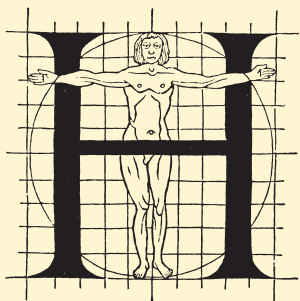
- ▶ Introduction
- ▶ Harmonic Systems
- ▶ Form Structures
- ▼ Details
 - Optical
 - Serifs
 - Detail-progression
 - Idiom
- ▶ Legibility
- ▶ Automation

The invention of printing
from movable types was one
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lization. The task of dupli-



- ▶ Introduction
- ▶ Harmonic Systems
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 - Optical
 - Serifs
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 - Idiom
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- ▶ Automation

The invention of printing
from movable types was one
of the chief events affecting
the history of European civi-
lization. The task of dupli-



◀ 113 ▶

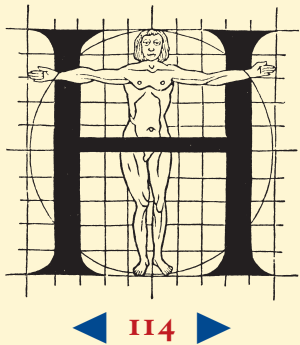
AUTOMATING TYPE DESIGN PROCESSES

FRANK E. BLOKLAND

The invention of printing from movable

- ▶ Introduction
- ▶ Harmonic Systems
- ▶ Form Structures
- ▼ Details
 - Optical
 - Serifs
 - Detail-progression
 - Idiom
- ▶ Legibility
- ▶ Automation

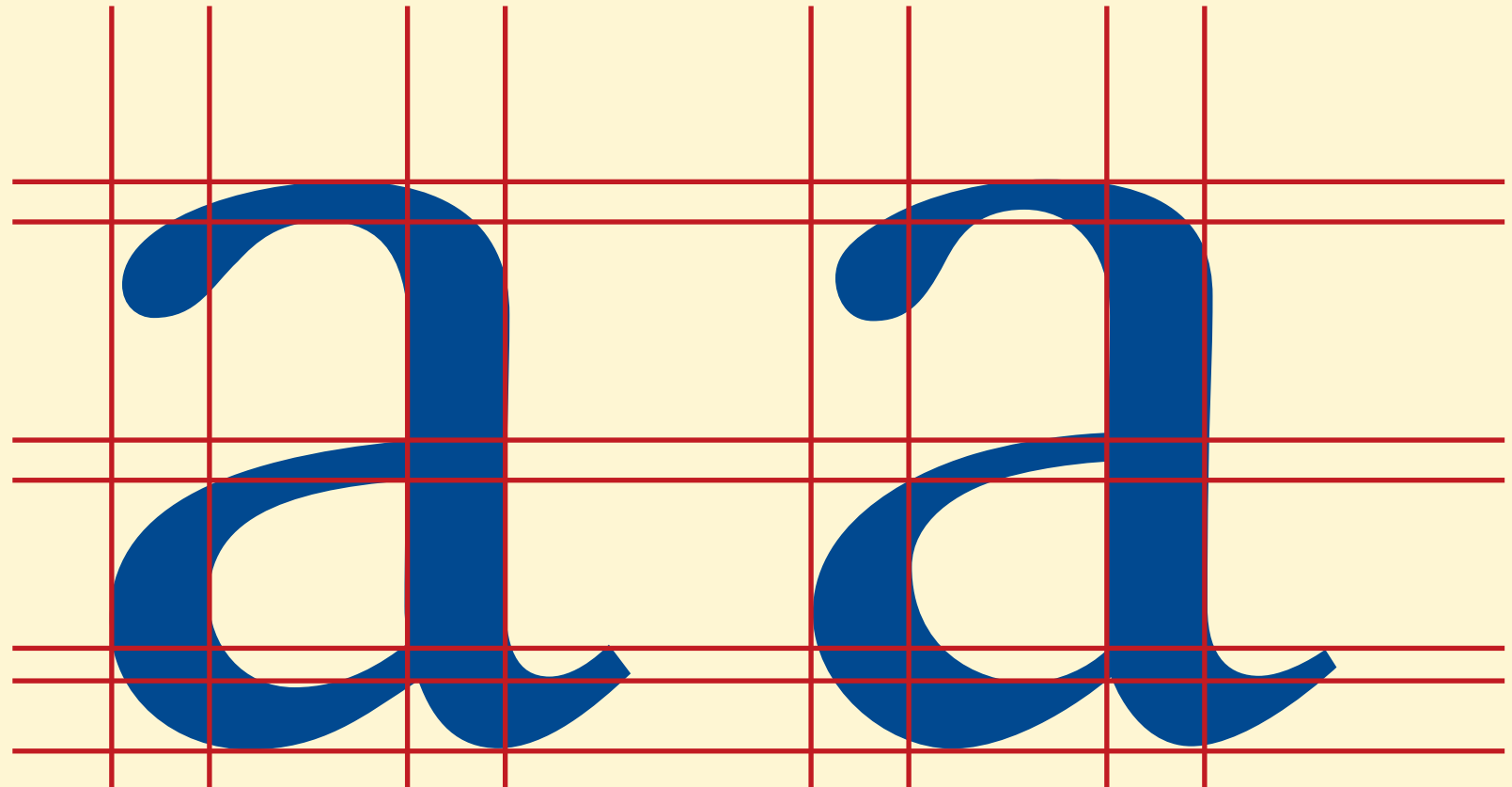
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AUTOMATING TYPE DESIGN PROCESSES

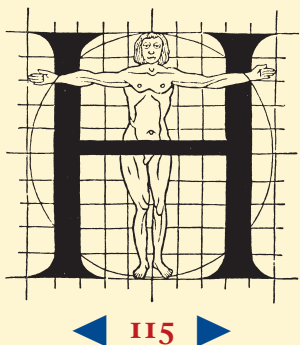
FRANK E. BLOKLAND

- ▶ Introduction
- ▶ Harmonic Systems
- ▶ Form Structures
- ▼ Details
 - Optical
 - Serifs
 - Detail-progression
 - Idiom
- ▶ Legibility
- ▶ Automation



DTL Romulus

DTL Haarlemmer



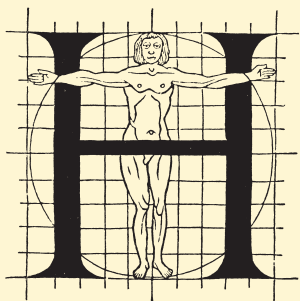
- ▶ Introduction
- ▶ Harmonic Systems
- ▶ Form Structures
- ▼ Details
 - Optical
 - Serifs
 - Detail-progression
 - Idiom
- ▶ Legibility
- ▶ Automation

Is dit Times?

Is dit Times?

Is dit Times?

Is dit Times?

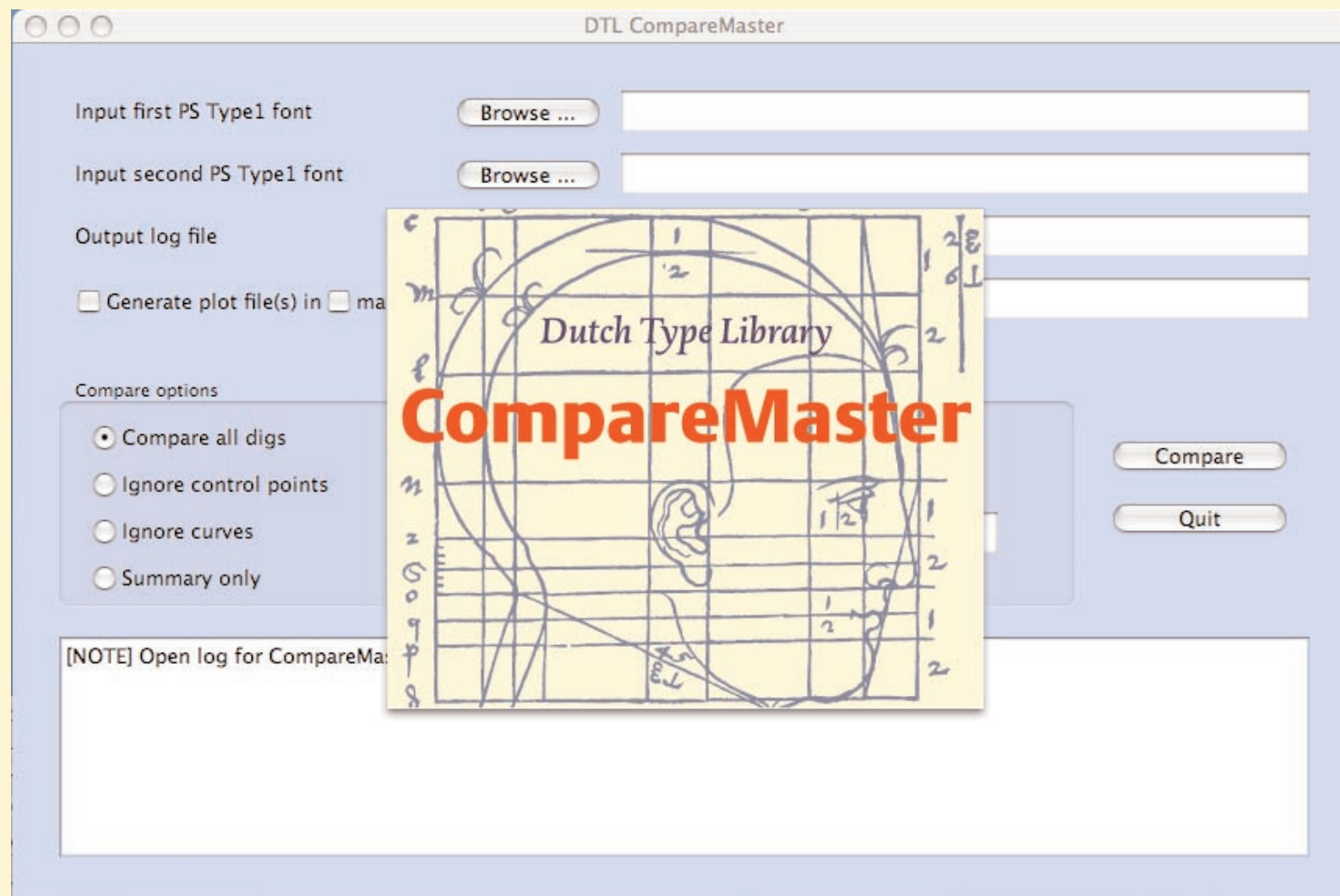


◀ 116 ▶

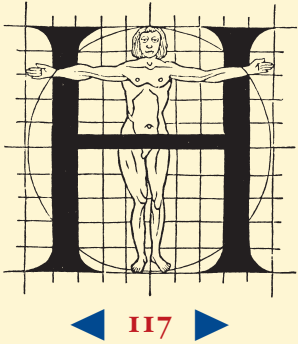
AUTOMATING TYPE DESIGN PROCESSES

FRANK E. BLOKLAND

- ▶ Introduction
- ▶ Harmonic Systems
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- ▼ Details
 - Optical
 - Serifs
 - Detail-progression
 - Idiom
- ▶ Legibility
- ▶ Automation



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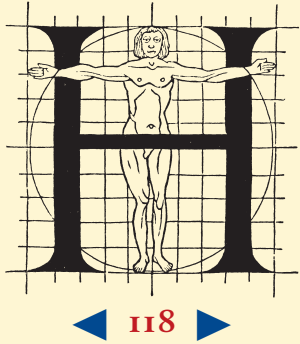


V. Legibility

- ▶ Introduction
- ▶ Harmonic Systems
- ▶ Form Structures
- ▶ Details
- ▶ Legibility
- ▶ Automation

‘The problem with legibility research is that it gives you no clues as a designer to improve the letterforms. Thus the only thing that you can simply do is to experiment with the shapes.’

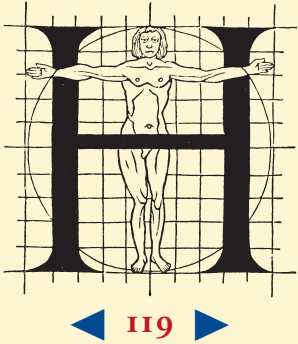
Gerard Unger
(*While You’re Reading*, 2007)



Legibility research, traditionally:

- ▶ Introduction
- ▶ Harmonic Systems
- ▶ Form Structures
- ▶ Details
- ▼ Legibility
 - Research
 - Models:
 - Harmonic
 - Proportional
 - Rhythmic
 - Details
- ▶ Automation

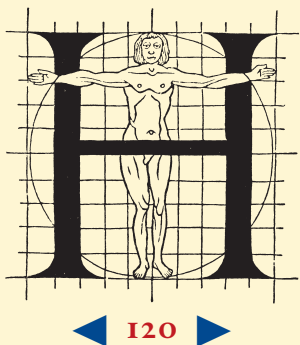
- comparing oranges to apples
- using vague criteria
- using uncontrolled conditions
- uncontrolled variable factors (typography)
besides constant factors (typefaces)



Legibility as *sum of particles* (molecular):

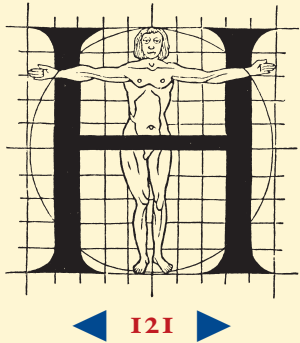
- ▶ Introduction
- ▶ Harmonic Systems
- ▶ Form Structures
- ▶ Details
- ▼ Legibility
 - Research
 - Models:
 - Harmonic
 - Proportional
 - Rhythmic
 - Details
- ▶ Automation

- based on the Harmonic Models
- controlled conditions
- conditioned and standardized factors
(letter forms, spacing and typography)
- parameterized legibility research
- modifiable and reproducible



- ▶ Introduction
- ▶ Harmonic Systems
- ▶ Form Structures
- ▶ Details
- ▼ Legibility
- Research
- Models:
 - Harmonic
 - Proportional
 - Rhythmic
- Details
- ▶ Automation

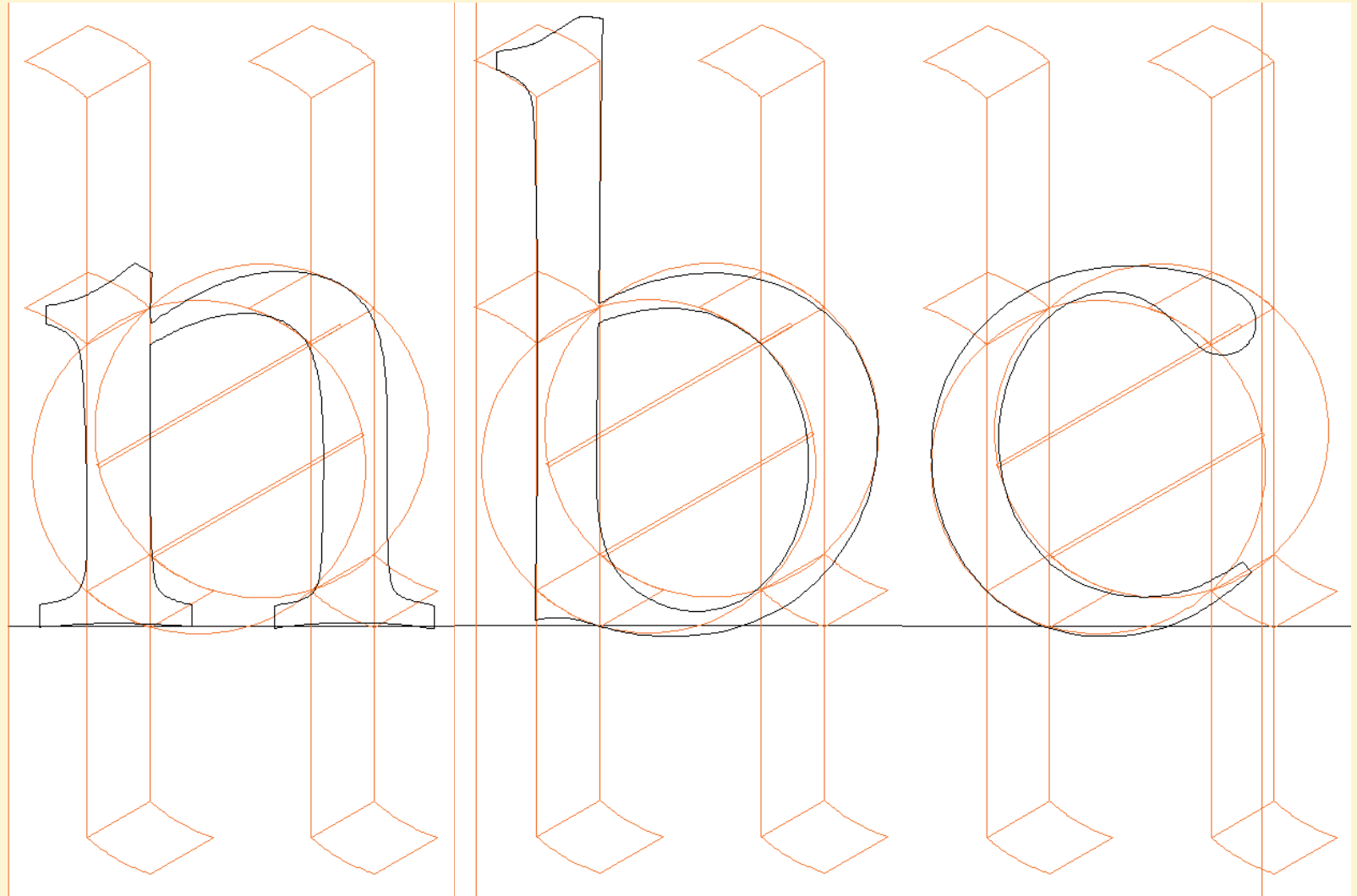
The invention of printing
from movable types was
one of the chief events affecting
the history of European
civilization. The task of

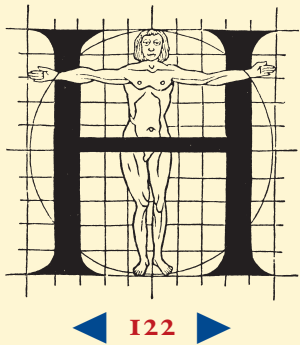


AUTOMATING TYPE DESIGN PROCESSES

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- ▶ Introduction
- ▶ Harmonic Systems
- ▶ Form Structures
- ▶ Details
- ▼ Legibility
- Research
- Models:
 - Harmonic
 - Proportional
 - Rhythmic
- Details
- ▶ Automation

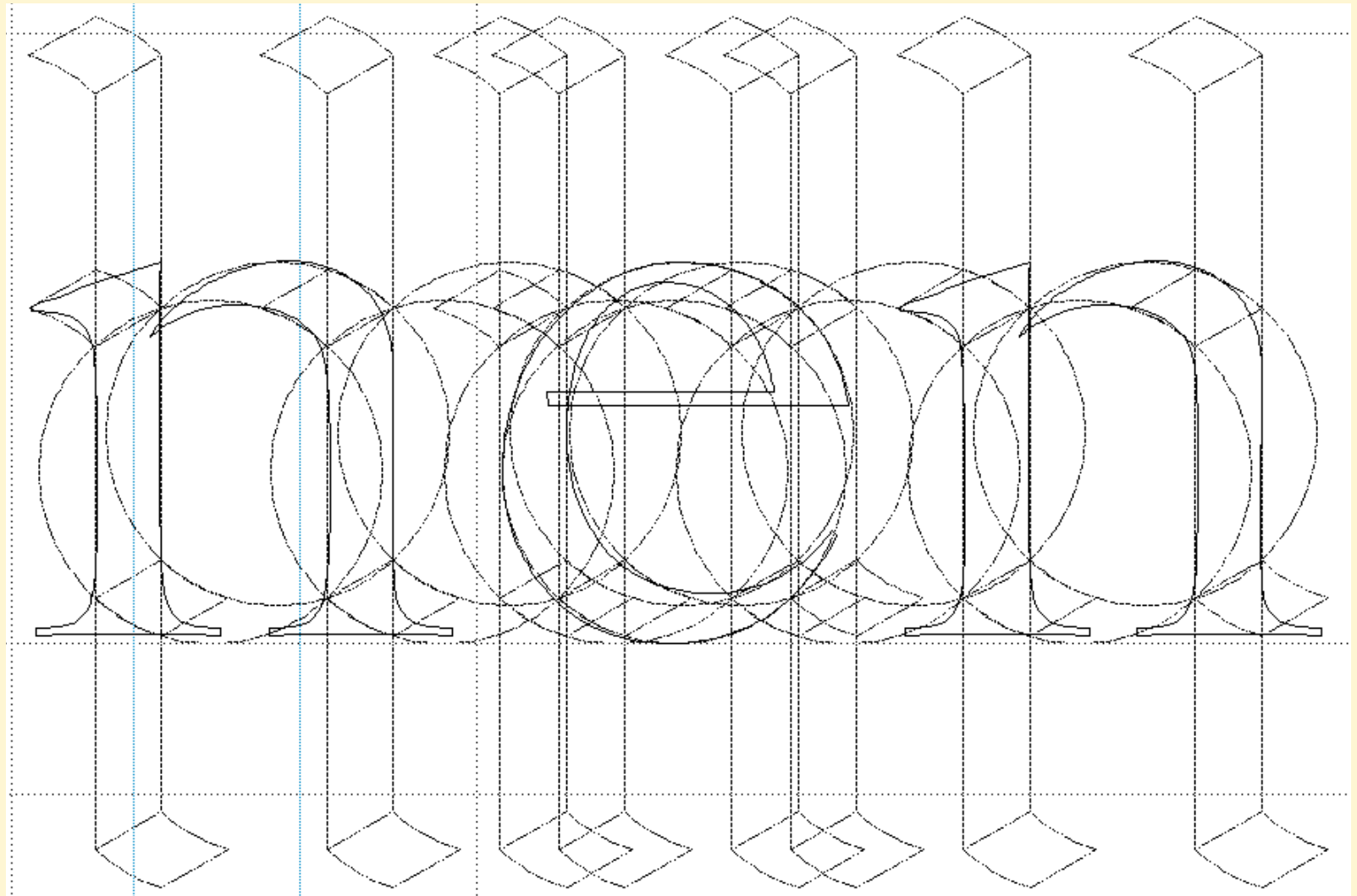


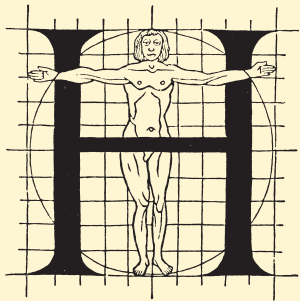


HARMONIC SYSTEMS WITHIN THE LATIN SCRIPT

FRANK E. BLOKLAND

- ▶ Introduction
- ▶ Harmonic Systems
- ▶ Form Structures
- ▶ Details
- ▼ Legibility
- Research
- Models:
 - Harmonic
 - Proportional
 - Rhythmic
- Details
- ▶ Automation



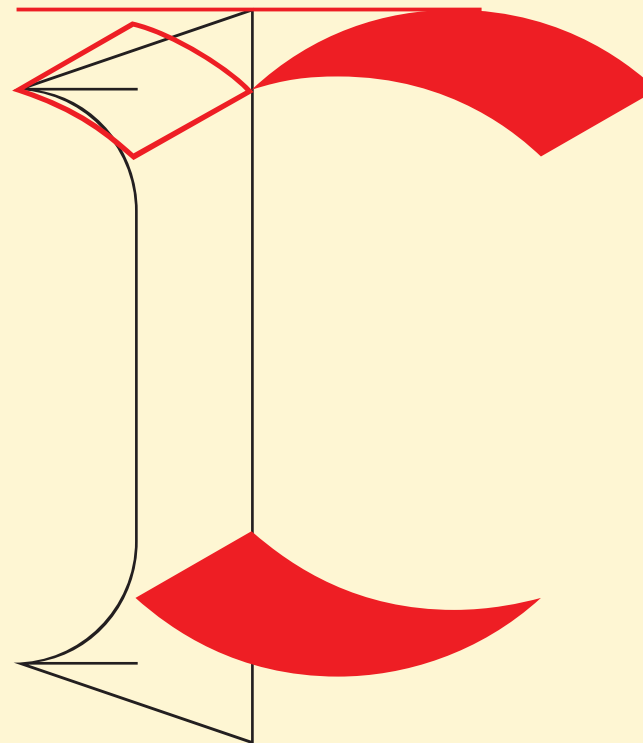


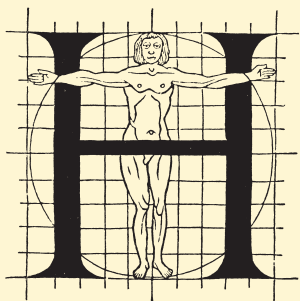
◀ 123 ▶

AUTOMATING TYPE DESIGN PROCESSES

FRANK E. BLOKLAND

- ▶ Introduction
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- ▶ Form Structures
- ▶ Details
- ▼ Legibility
- Research
- Models:
 - Harmonic
 - Proportional
 - Rhythmic
- Details
- ▶ Automation





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AUTOMATING TYPE DESIGN PROCESSES

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- ▶ Details
- ▼ Legibility
- Research
- Models:
 - Harmonic
 - Proportional
 - Rhythmic
- Details
- ▶ Automation

DTL ContourMaster BE Options

em: unknown

OK Cancel

Tolerance Parameters in em units

Extrema	3	Inflection	3
Curves	3	Peaks [degree]	5
Double point	3	Loops	3

Stem and Serif Parameters

☒ Stem widths ☒ Horizontal ☐ Vertical Width: 84

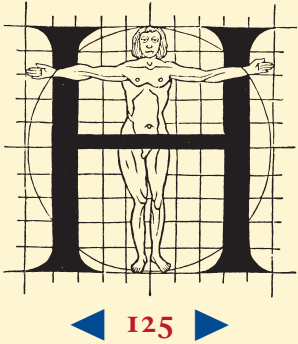
☒ Serif widths: Width: 38

☒ Serif lengths Length: 75

Contour Parameters

☒ Open contours	☐ Double points
☒ Double contours	☐ Double points control/anchor
☐ Overlapping contours	☐ Extreme points (adjust)
☐ Self overlapping contours	☐ Extreme points (insert)
☒ Sequence of contours	☐ Single start points
☒ Empty contours	☒ Tangent continuity
☒ Sense of rotation	☐ Inflection points
☐ Aligned lines	☐ Peaks
☐ Short bezier sections	☐ Zigzags
☐ Straight sections	☒ Sequence of points

FontMaster™ Utilities

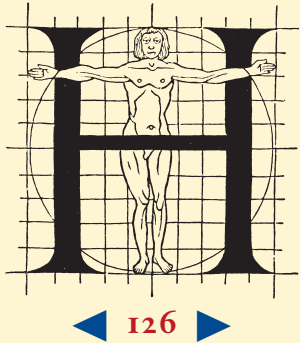


VI. Automation

‘Technology should never move at the pace of the most conservative type designer.’

Frank E. Blokland

- ▶ Introduction
- ▶ Harmonic Systems
- ▶ Form Structures
- ▶ Details
- ▶ Legibility
- ▶ Automation



AUTOMATING TYPE DESIGN PROCESSES

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- ▶ Introduction
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- ▶ Form Structures
- ▶ Details
- ▶ Legibility
- ▼ Automation

Models:

- Harmonic
- Proportional
- Rhythmic

Details

Pen width [mm]

30

Pen thickness [mm]

0.0

Angle of pen [degrees]

30.0

X-height, as factor of pen width

5

Ascender, as factor of pen width

3.5

Descender, as factor of pen width

3.5

Stretch factor

1.0

Italic angle [degrees]

0.0

Smooth factor

0.0

Serif length

1.0

Display

Generate font

☒ Sync

a

b

n

o

p

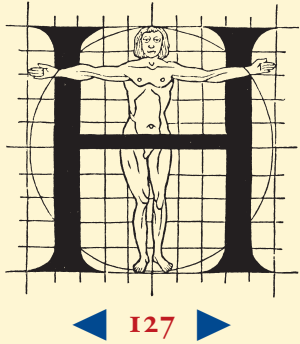
☐ All characters

☒ Single characters (comma separated)

a,b,n,o,p

Log messages

[NOTE] Open log for PrimaryHarmonicModeller 1.3.000 on zo mei 18 13:27:53 2008.



Parameterizing of:

Macro level:

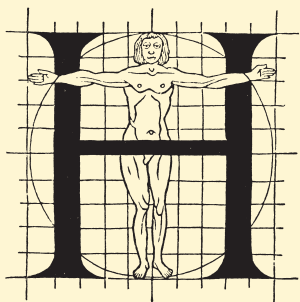
- proportions
- weight
- contrast
- contrast-flow

- ▶ Introduction
- ▶ Harmonic Systems
- ▶ Form Structures
- ▶ Details
- ▶ Legibility
- ▼ Automation

Models:

- Harmonic
- Proportional
- Rhythmic

Details



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AUTOMATING TYPE DESIGN PROCESSES

FRANK E. BLOKLAND

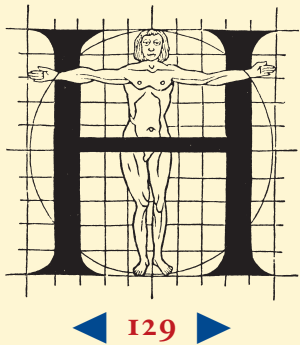
- ▶ Introduction
- ▶ Harmonic Systems
- ▶ Form Structures
- ▶ Details
- ▶ Legibility
- ▼ Automation

Models:

- Harmonic
- Proportional
- Rhythmic

Details





Parameterizing of:

Micro level:

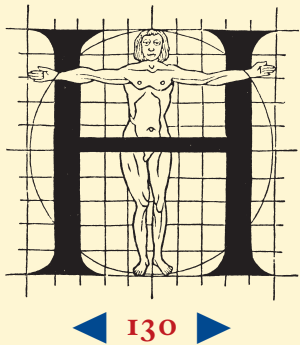
- stylistic details
- style periods
- idiom

- ▶ Introduction
- ▶ Harmonic Systems
- ▶ Form Structures
- ▶ Details
- ▶ Legibility
- ▼ Automation

Models:

- Harmonic
- Proportional
- Rhythmic

Details



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FRANK E. BLOKLAND

- ▶ Introduction
- ▶ Harmonic Systems
- ▶ Form Structures
- ▶ Details
- ▶ Legibility
- ▼ Automation

Models:

- Harmonic
- Proportional
- Rhythmic

Details



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- ▶ Introduction
- ▶ Harmonic Systems
- ▶ Form Structures
- ▶ Details
- ▶ Legibility
- ▶ Automation

