

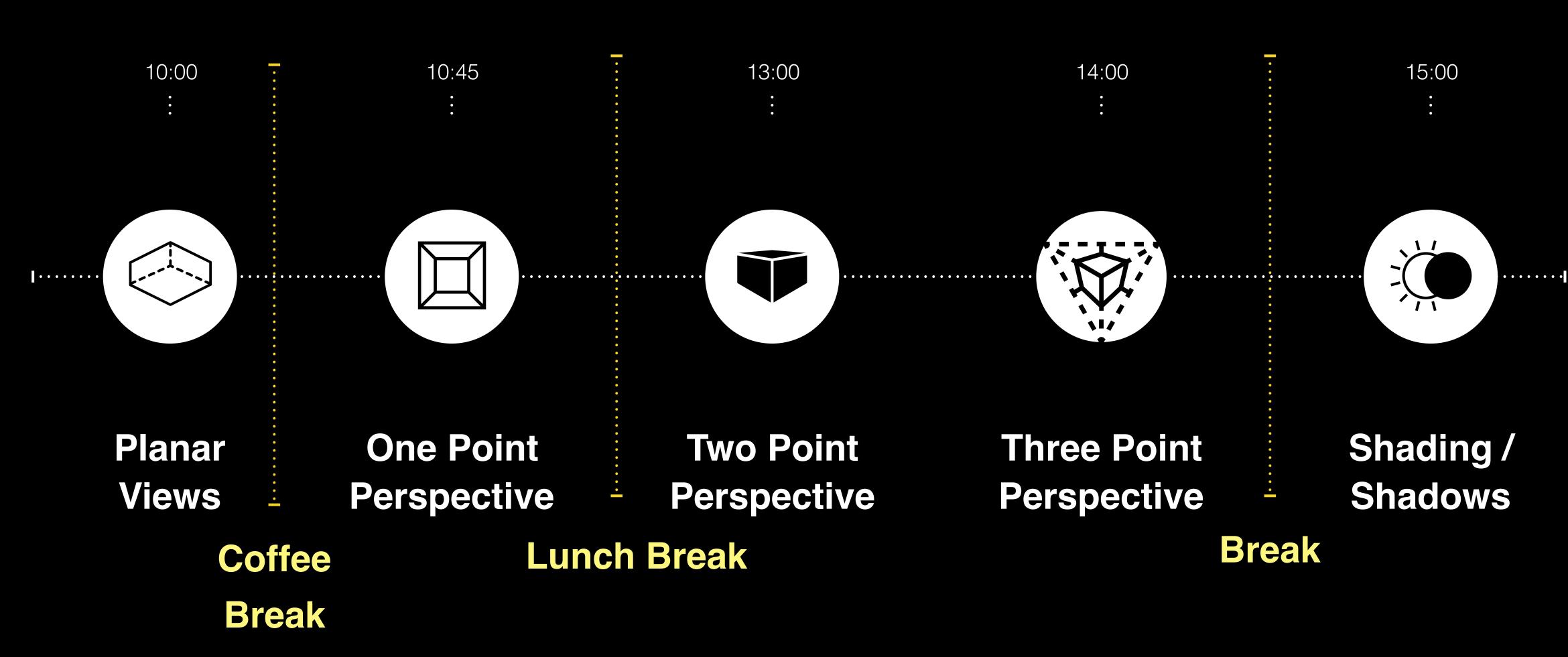
Zürcher Hochschule der Künste Bachelor of Arts in Design

# Designing Object Experience Sketching I

**Object Experience | 27th of September 2022** 

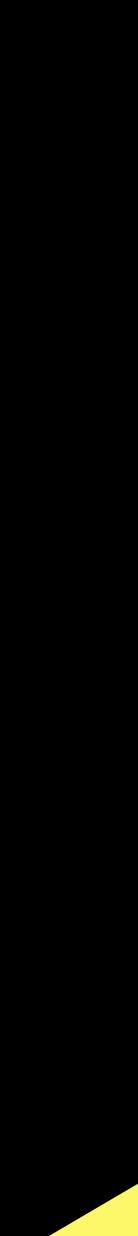
lecturer Rasa Weber

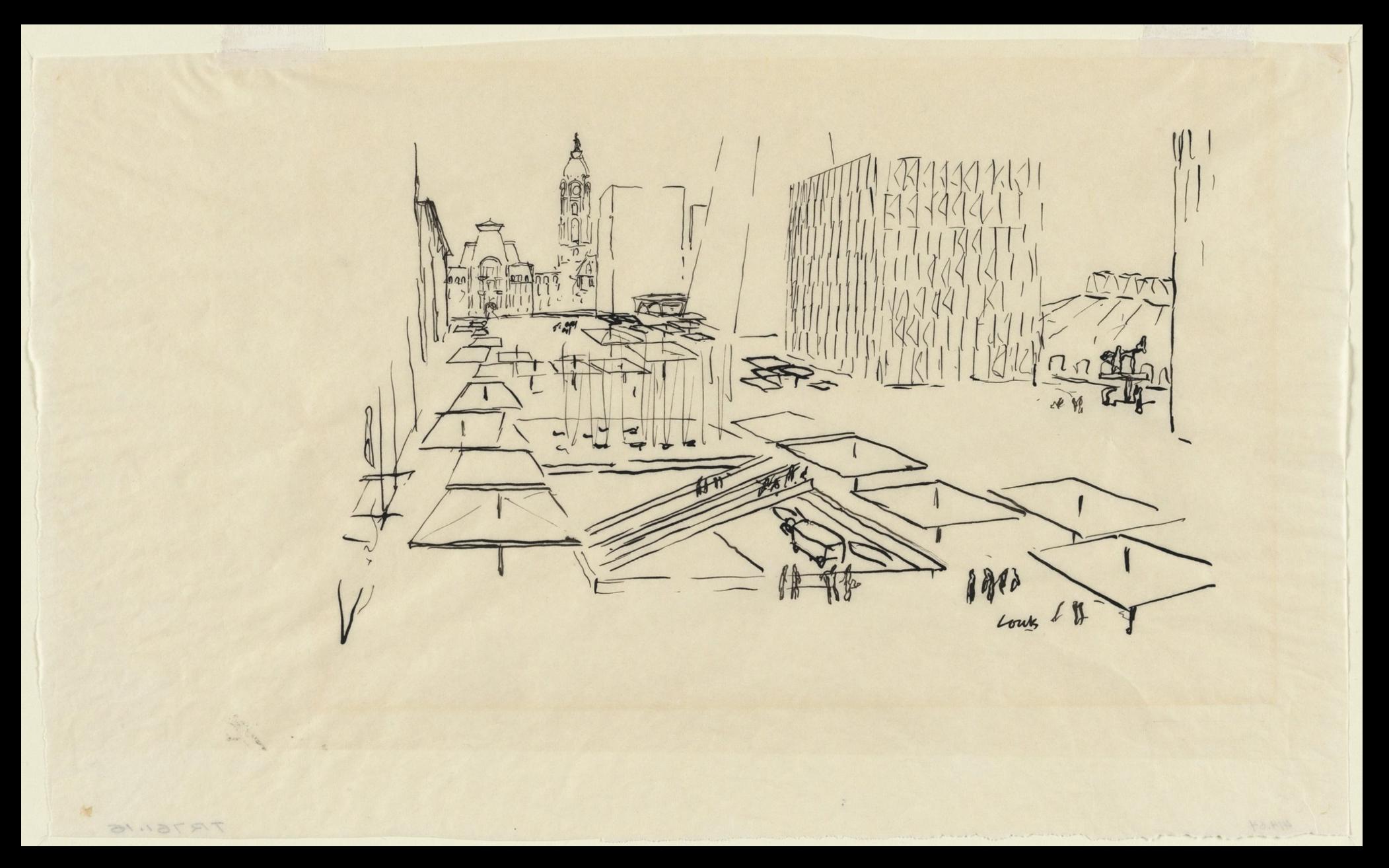
#### Overview Today's Schedule



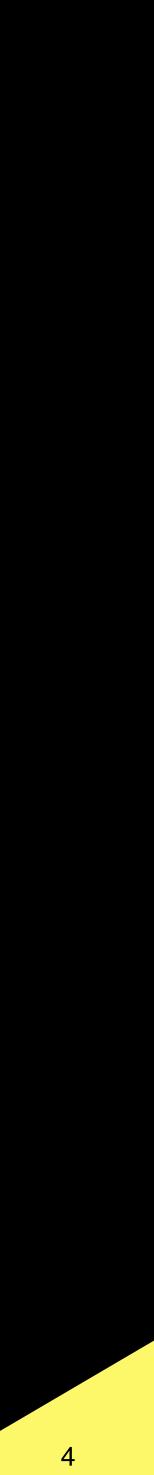


WHAT IS A GOOD **SKETCH FOR YOU?** 



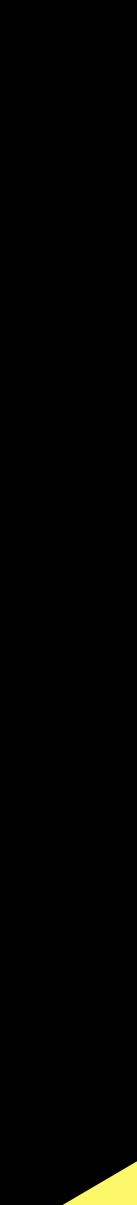


Louis Kahn, 1901–1974, Sketch MOMA



There is no value in trying to imitate exactly. Photographs will serve you the best of all, if thats your aim. We should not imitate when you intention is to create – to improvise.... I try in all my sketching not to be entirely subservient to my subject, but I have respect for it, ans regard it as something tangible – alive – from which to extract my feelings.

Louis I. Kahn, "The Value and Aim in Sketching"



**SKETCHING** 

## THE BEGINNING

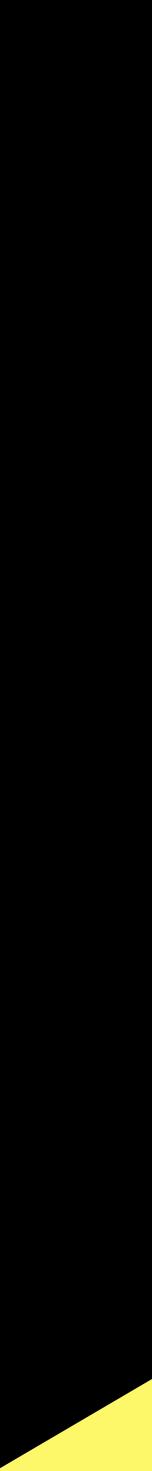


#### Sketching Practice The first stroke - the fear of starting



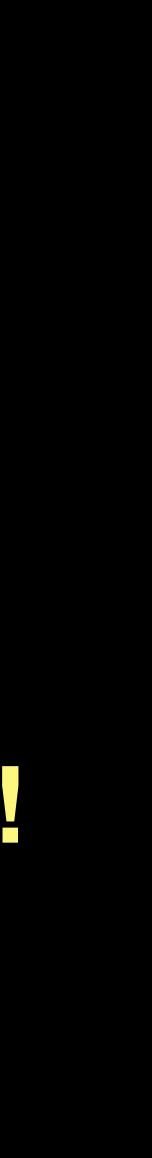
Film by: Scene from 'Visit to Picasso', by Paul Haesaert, 1949.

# 1. DON'T BE SCARED!

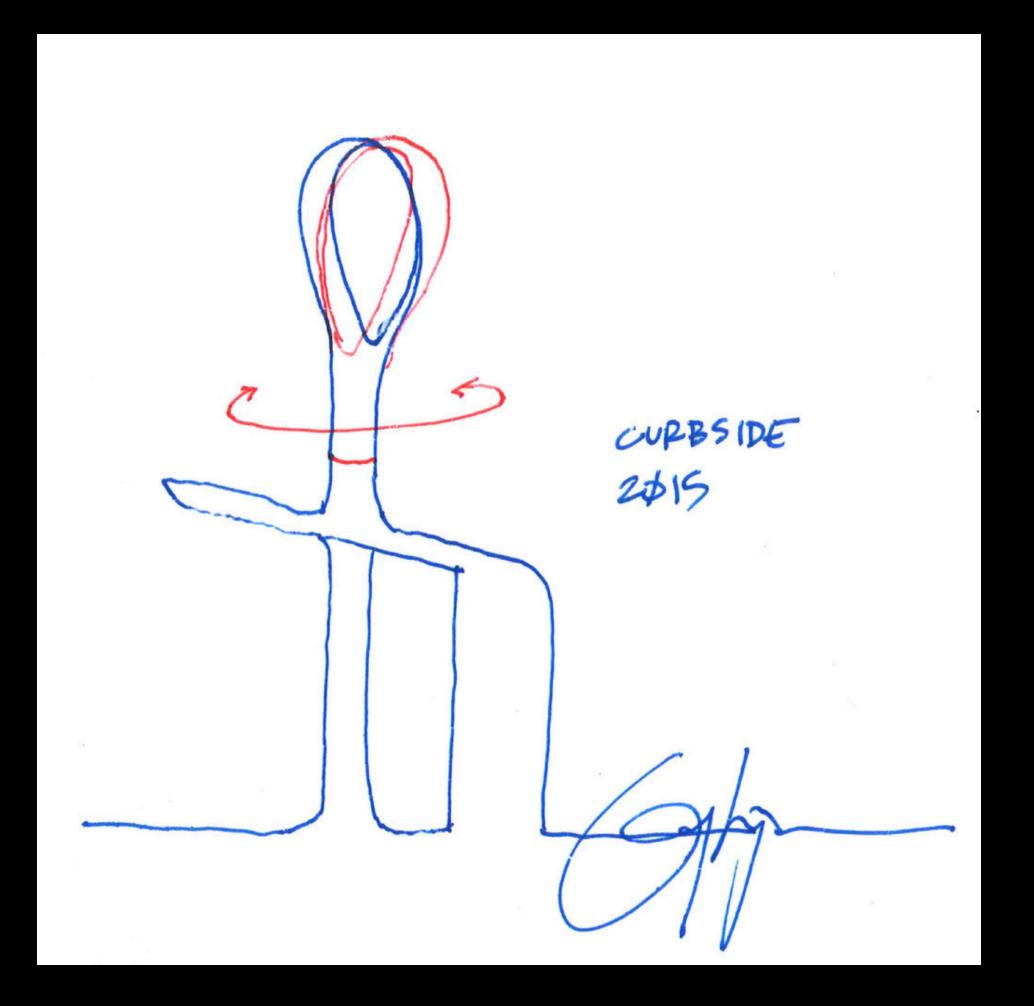


#### Sketching Practice The first stroke - the fear of starting

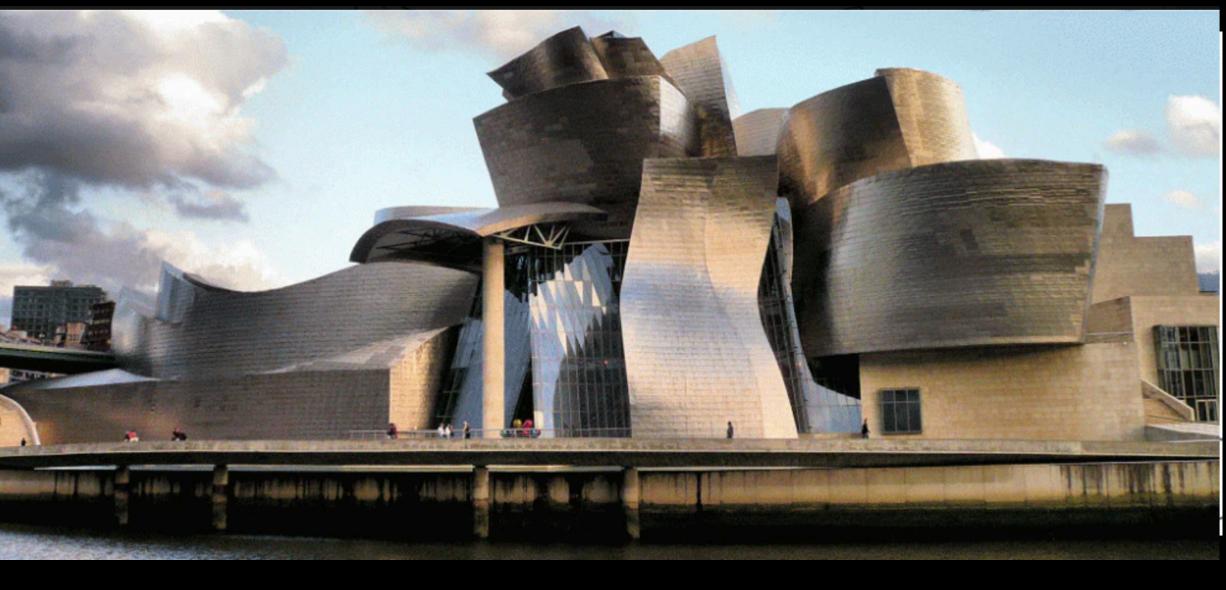
## 2. DON'T BE SCARED!



### **Sketching Practice** Dreaming - First ideas

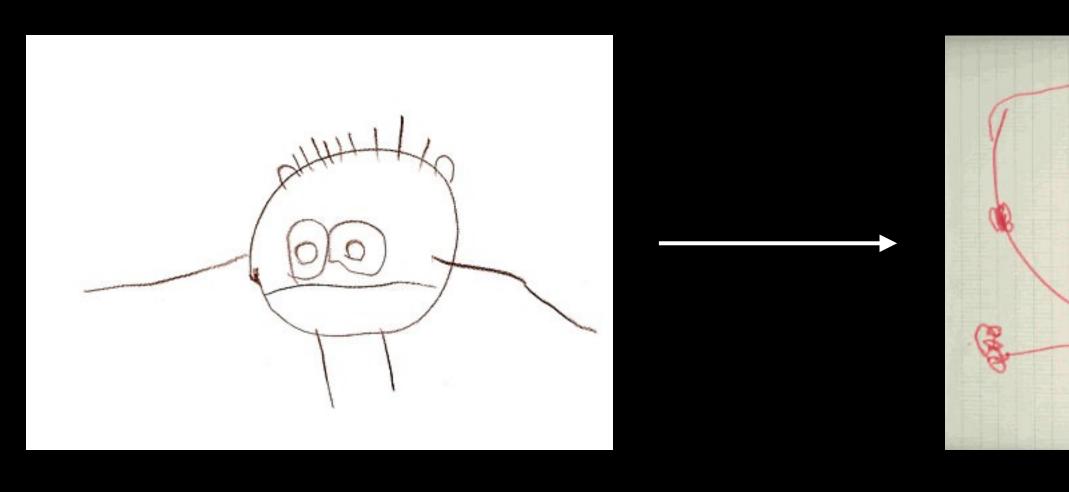


Sketch by: Greg Lynn on Napkin



Sketch by: Frank Ghery, Guggenheim Bilbao, 1993

### **Sketching Practice Sketching and Perception**



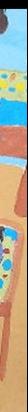
Child Sketch "Kopffüßler"



Child Sketch "Vorschemaphase"

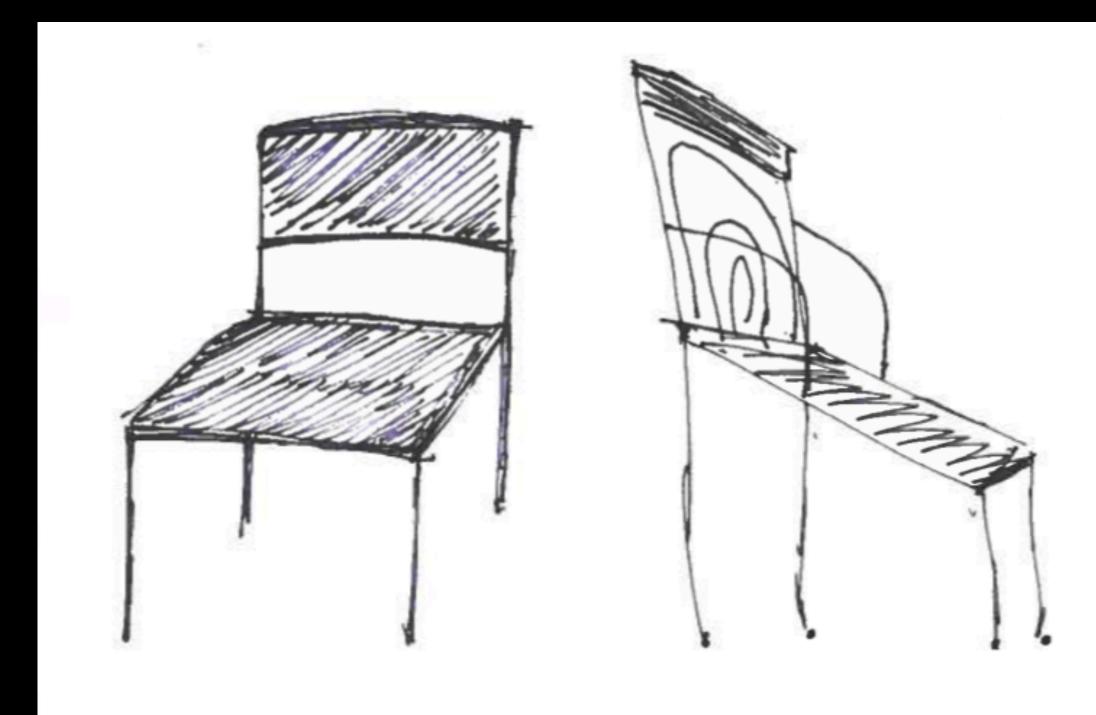


Child Sketch "Werkreife"

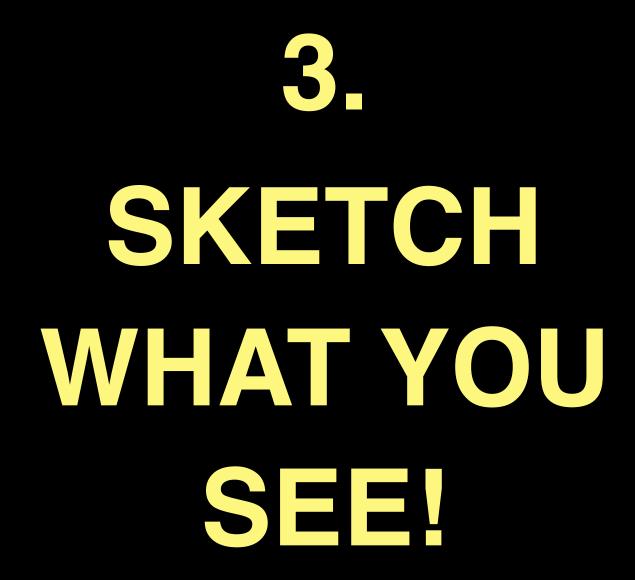


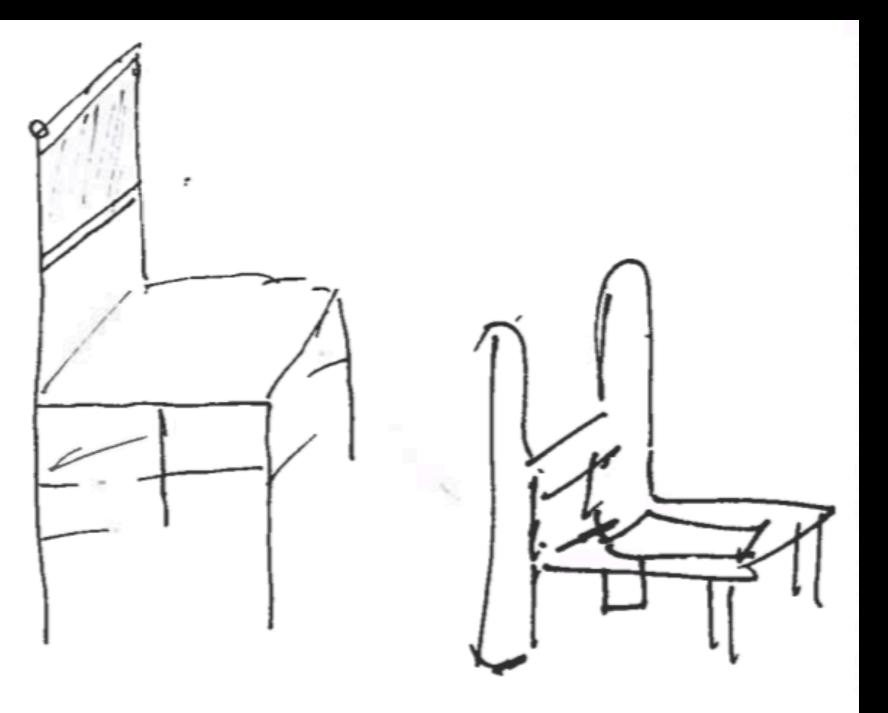


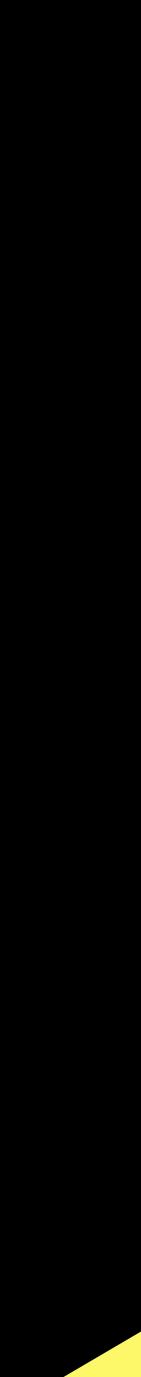
### Sketching Practice Sketching and Perception



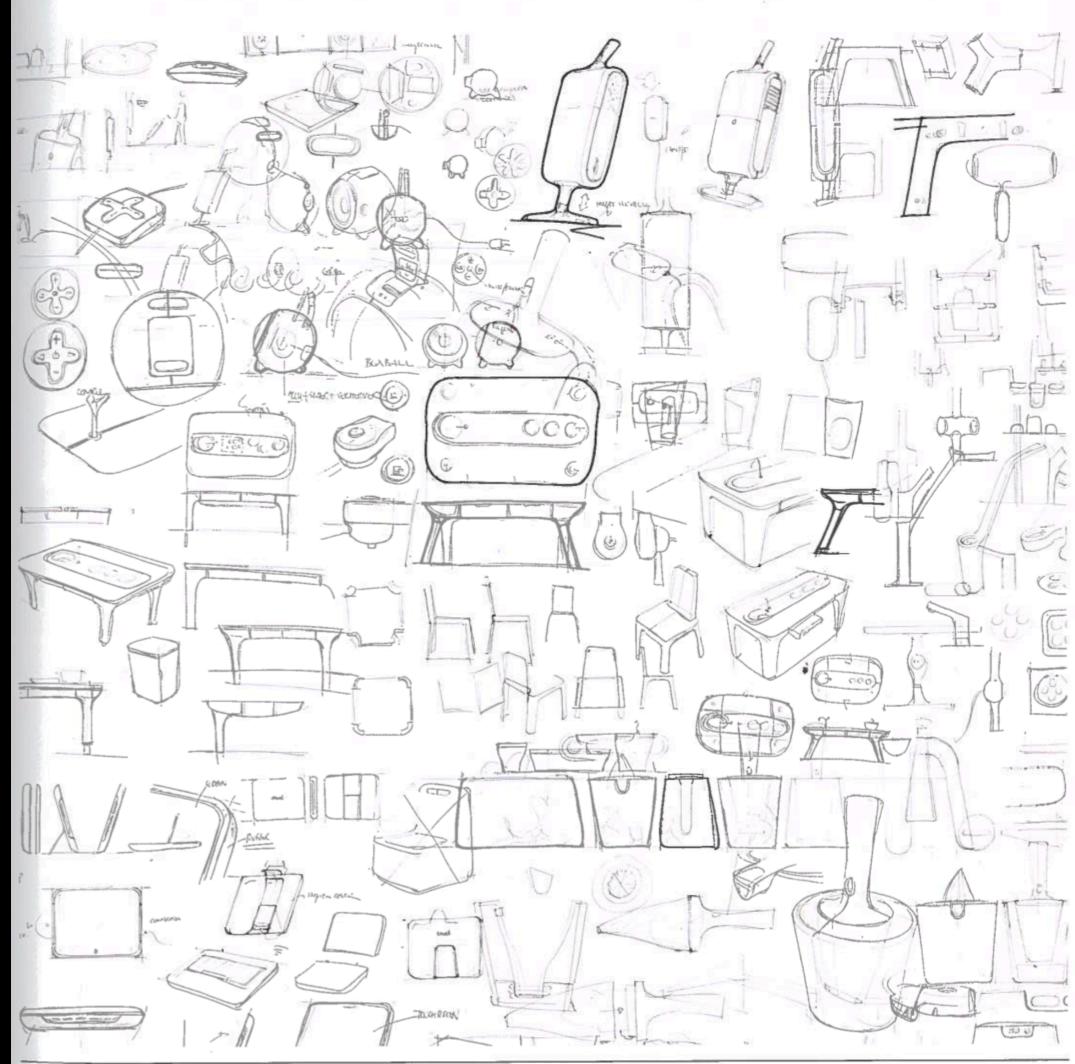
Drawing of chairs by non-designers of different age and gender



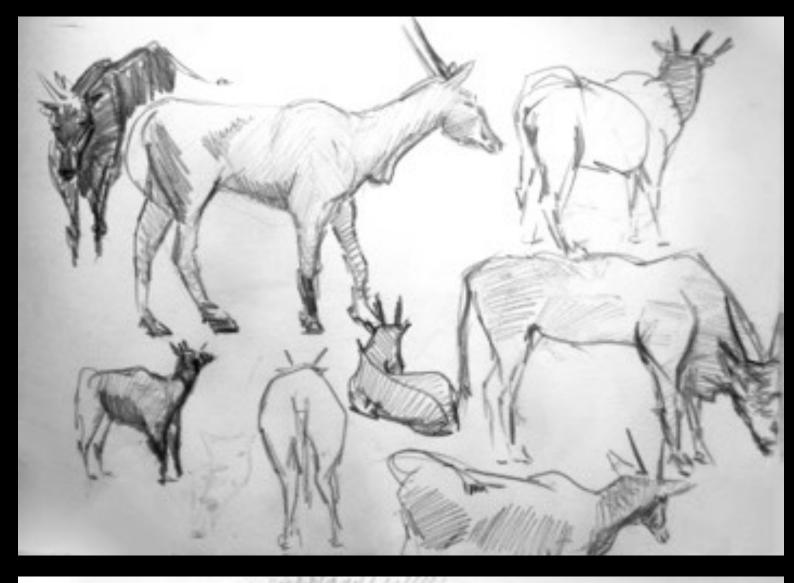




#### **Sketching Practice Generate variations**



Sketches by Robert Bronwasser, SMOOL



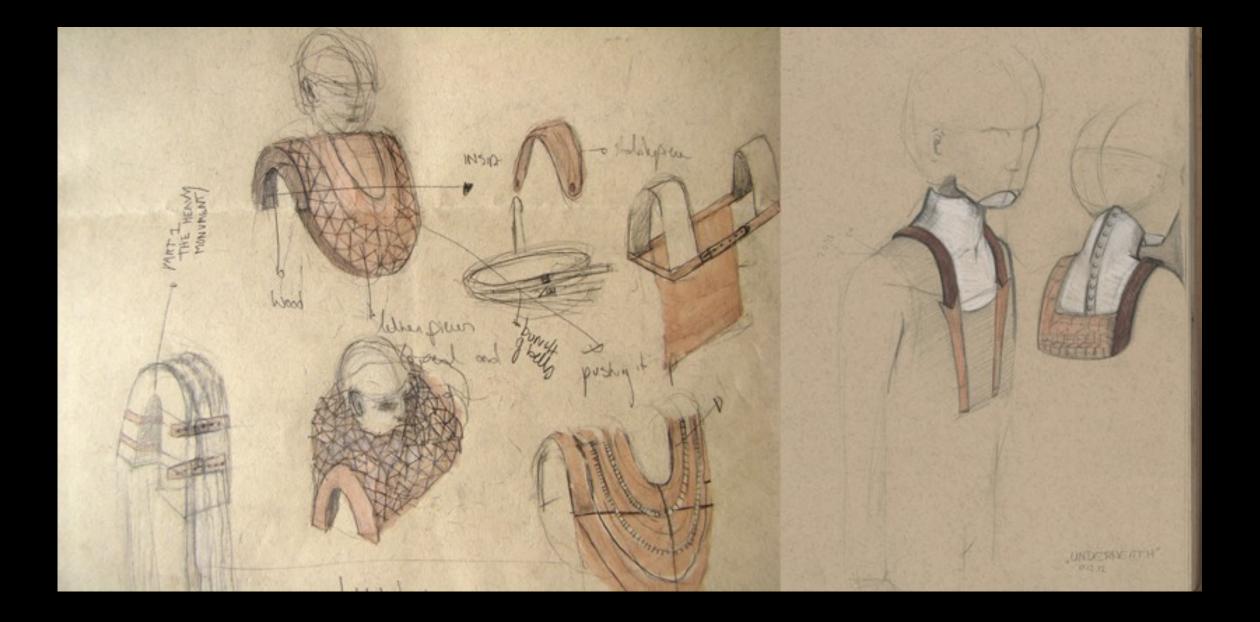


### 4. NEVER EVER STOP!



## Sketching Practice The development



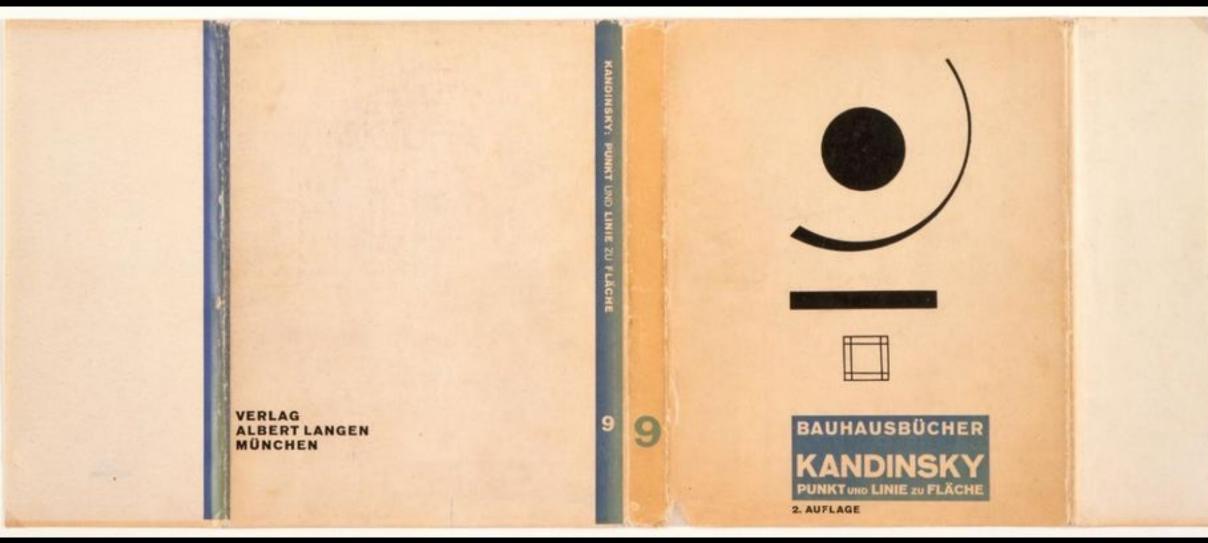




SKETCHING THE BASICS

### THE BASICS

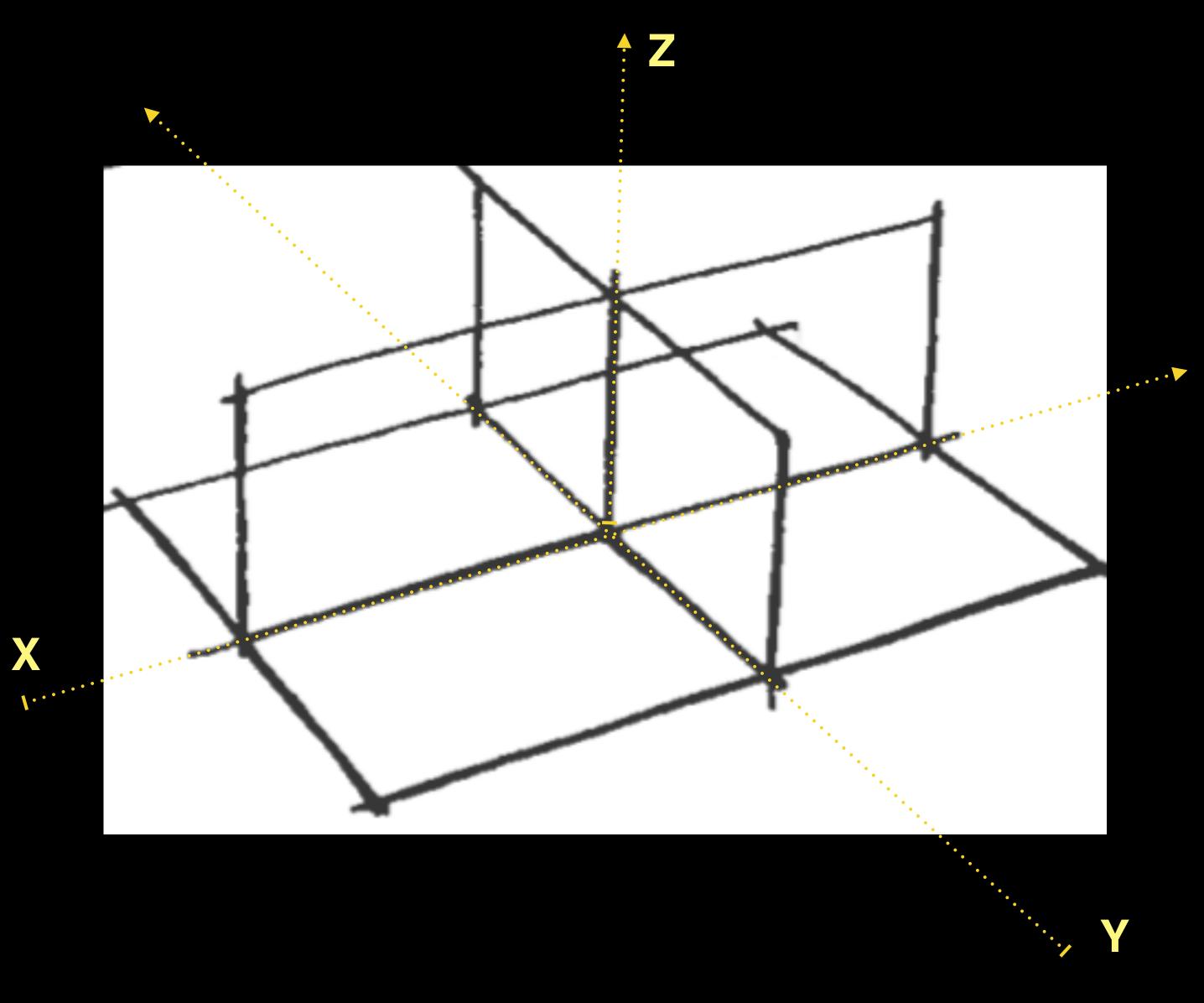
Bauhausbücher – Band 9. Punkt und Linie zu Fläche, Umschlaggestaltung: László Moholy-Nagy, 1926/28.







## Sketching Form Space



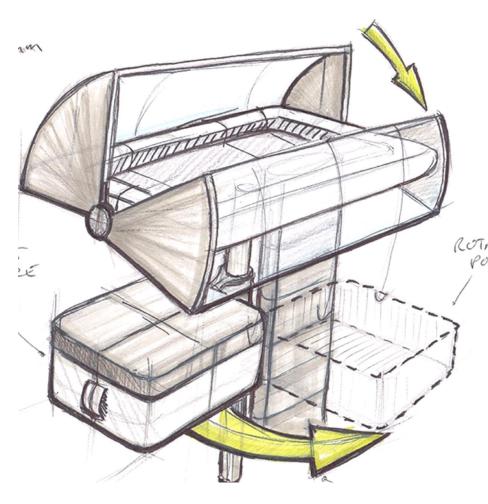


### Sketching Form HOW TO DO A STROKE?





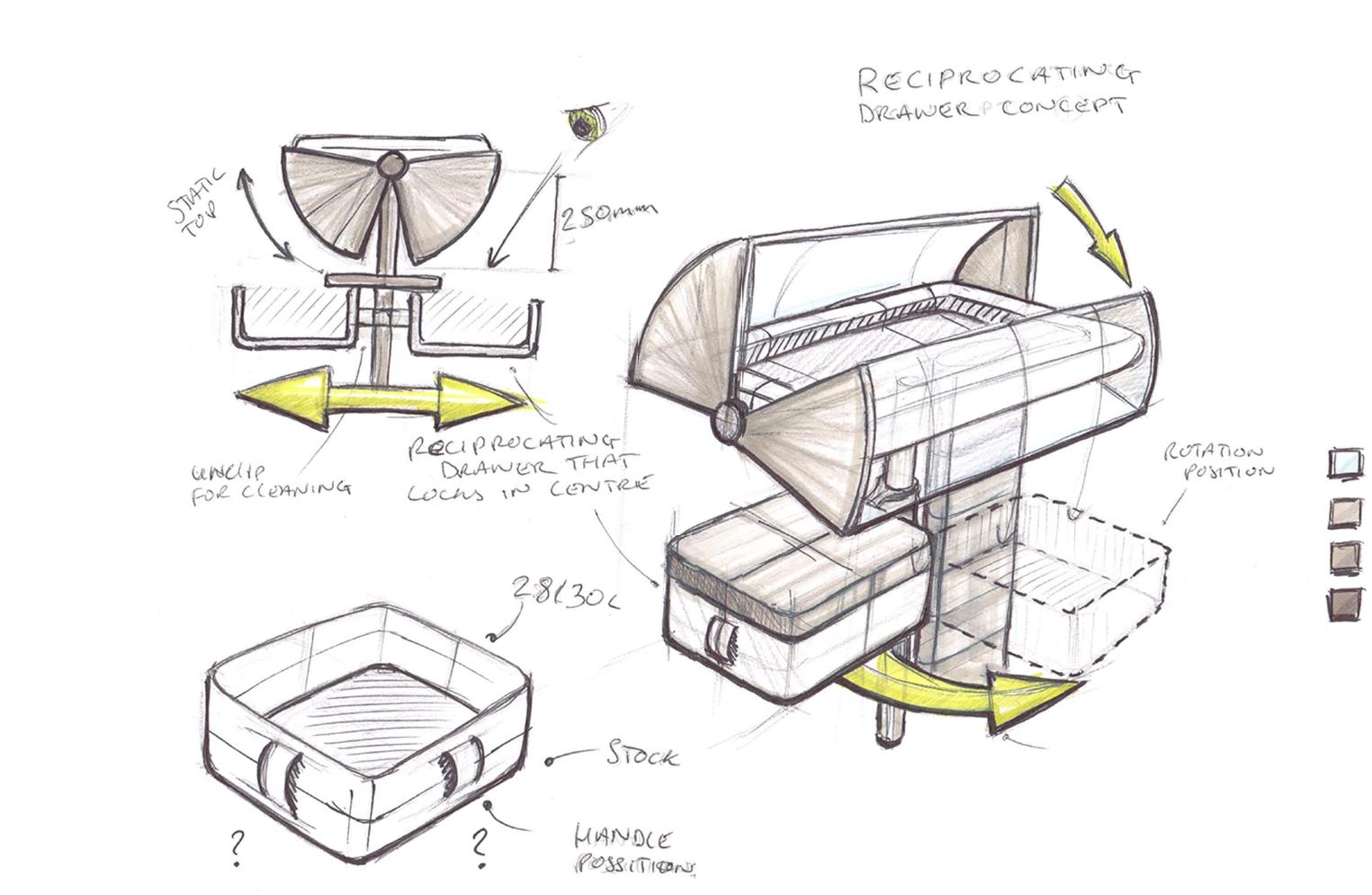
#### **Sketching Form HOW TO ORGANIZE A PAPER ?**



ROTATION

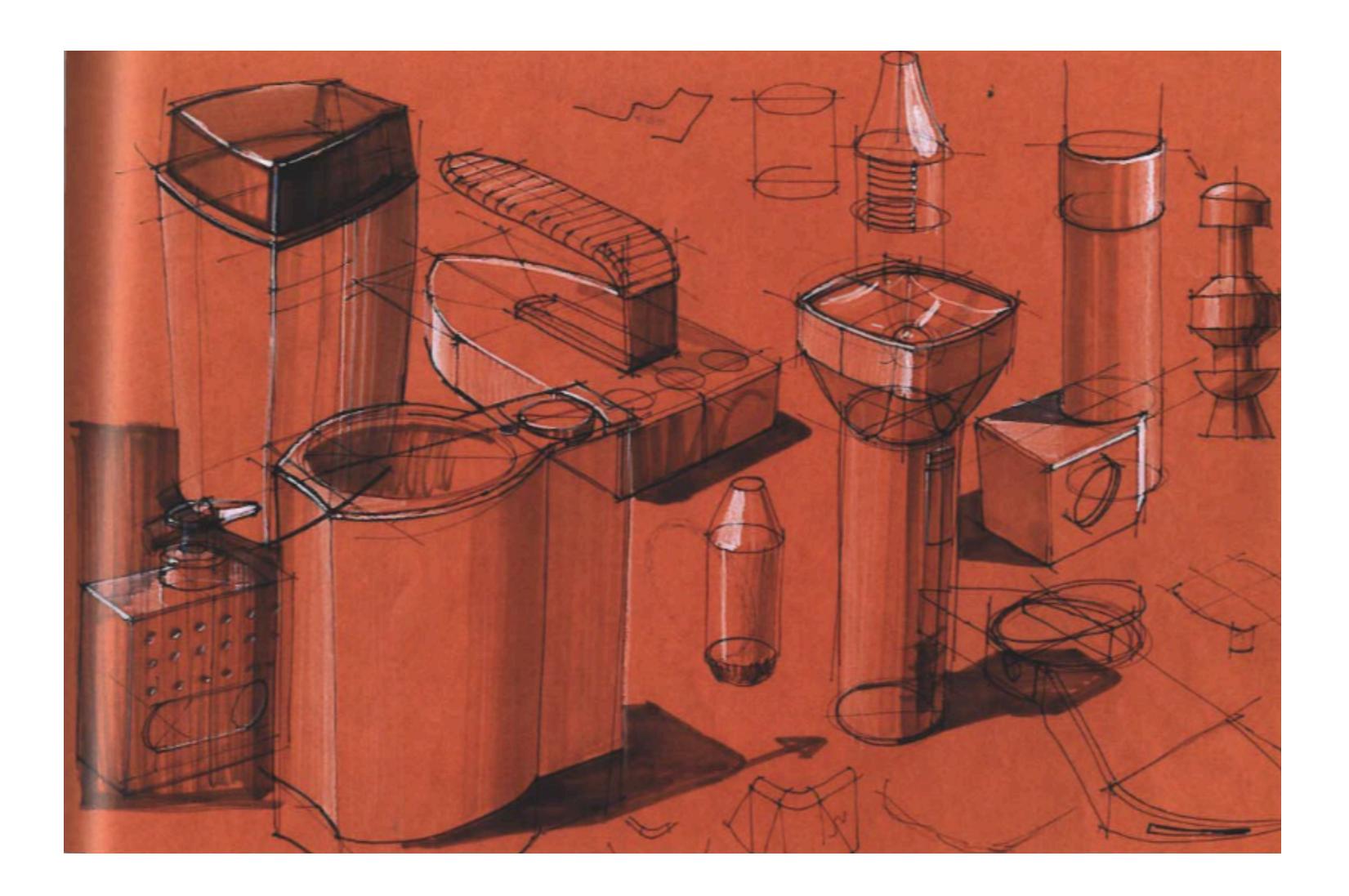


#### **Sketching Form HOW TO ORGANIZE A PAPER ?**



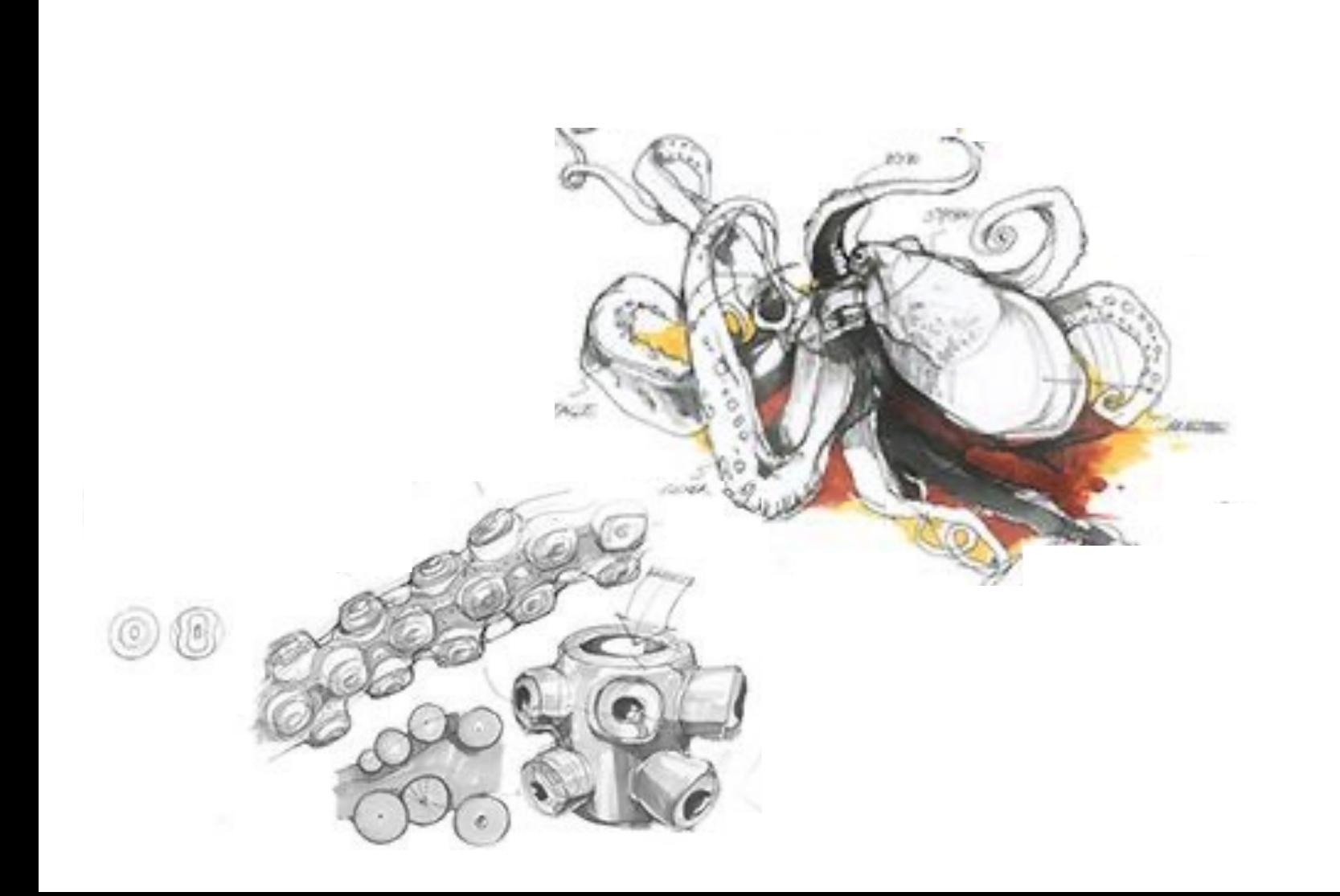


## Sketching Form HOW TO ORGANIZE A PAPER ?



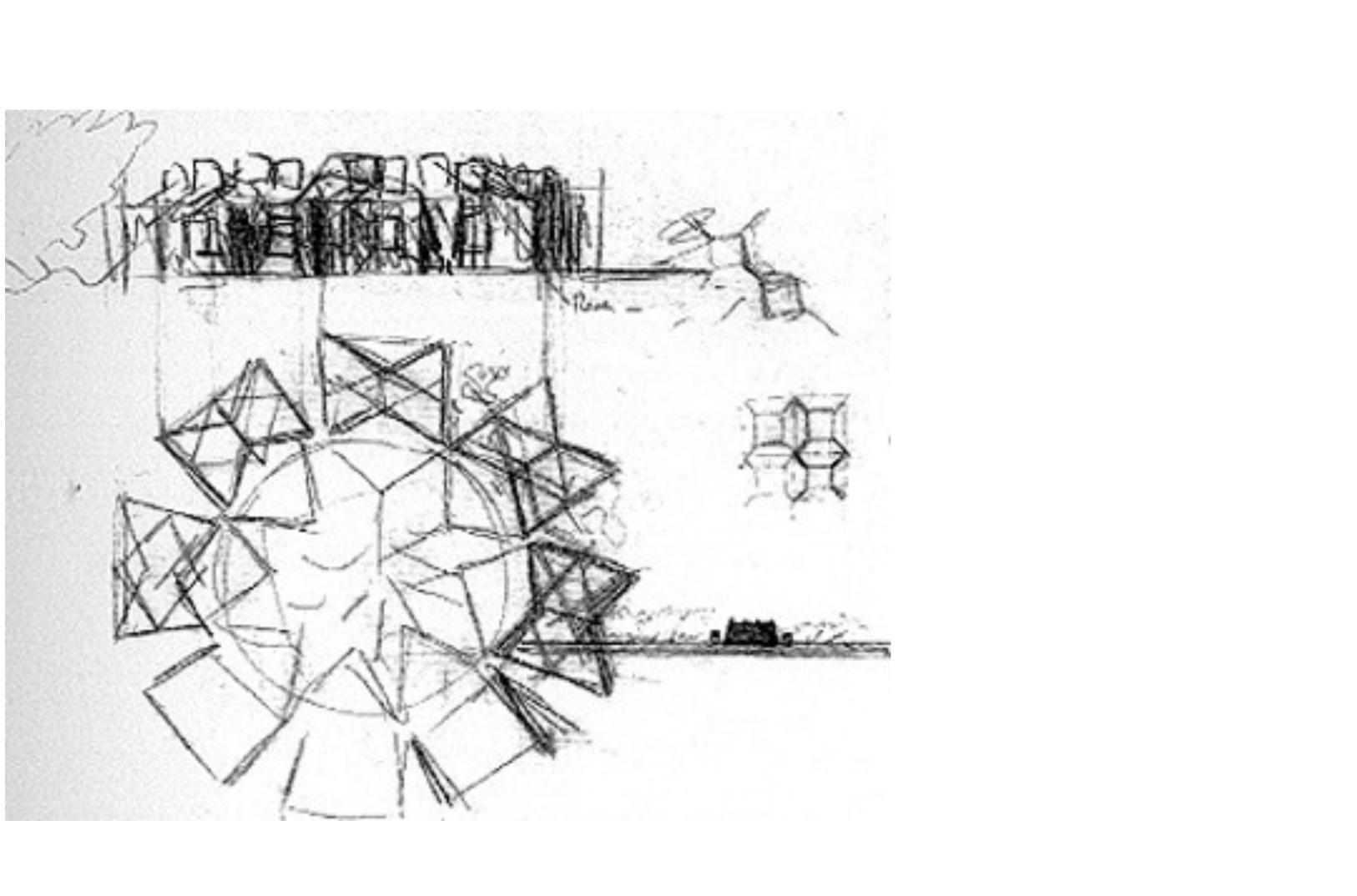


## Sketching Form WHAT IS IMPORTANT?



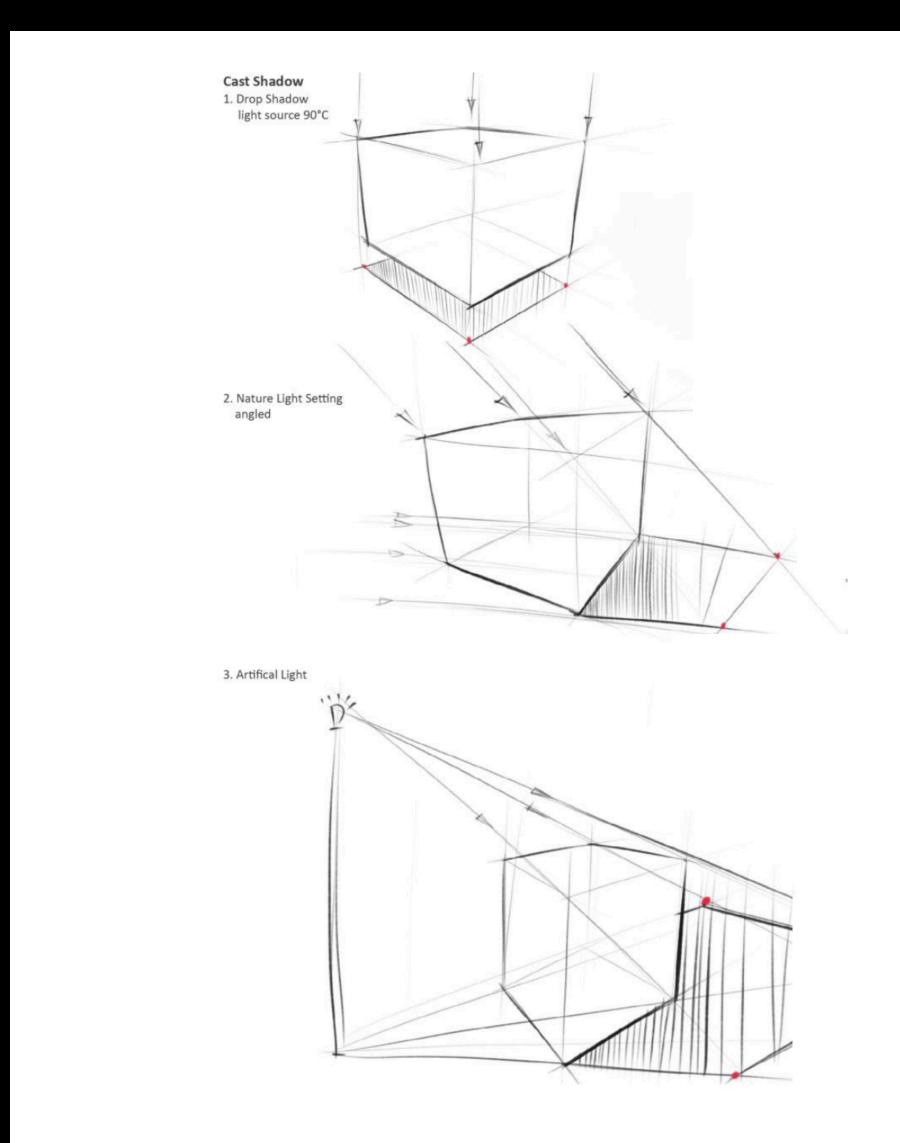


### Sketching Form WHAT IS IMPORTANT?



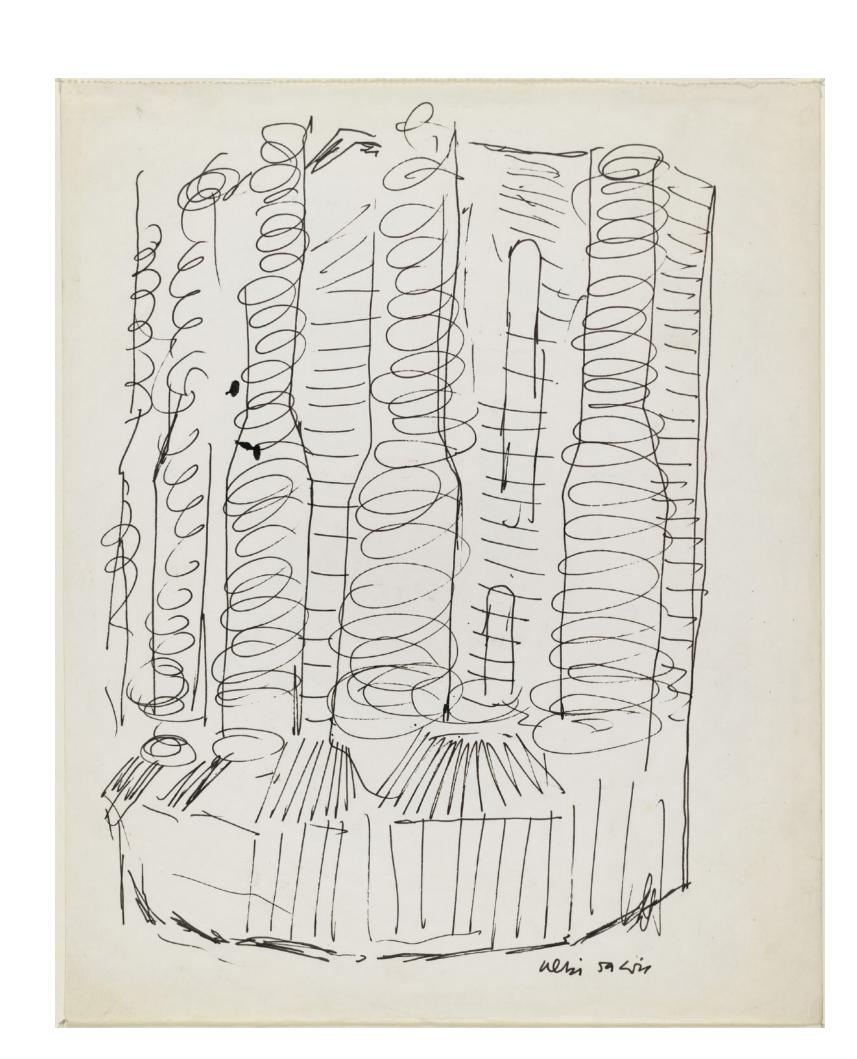


#### Sketching Form WHERE DOES THE LIGHT COME FROM?





#### **Sketching Form** WHEN IS THE BEST POINT TO STOP?



Cathedral, 1959.

Louis I. Kahn, Travel Sketch for Sainte Cécile



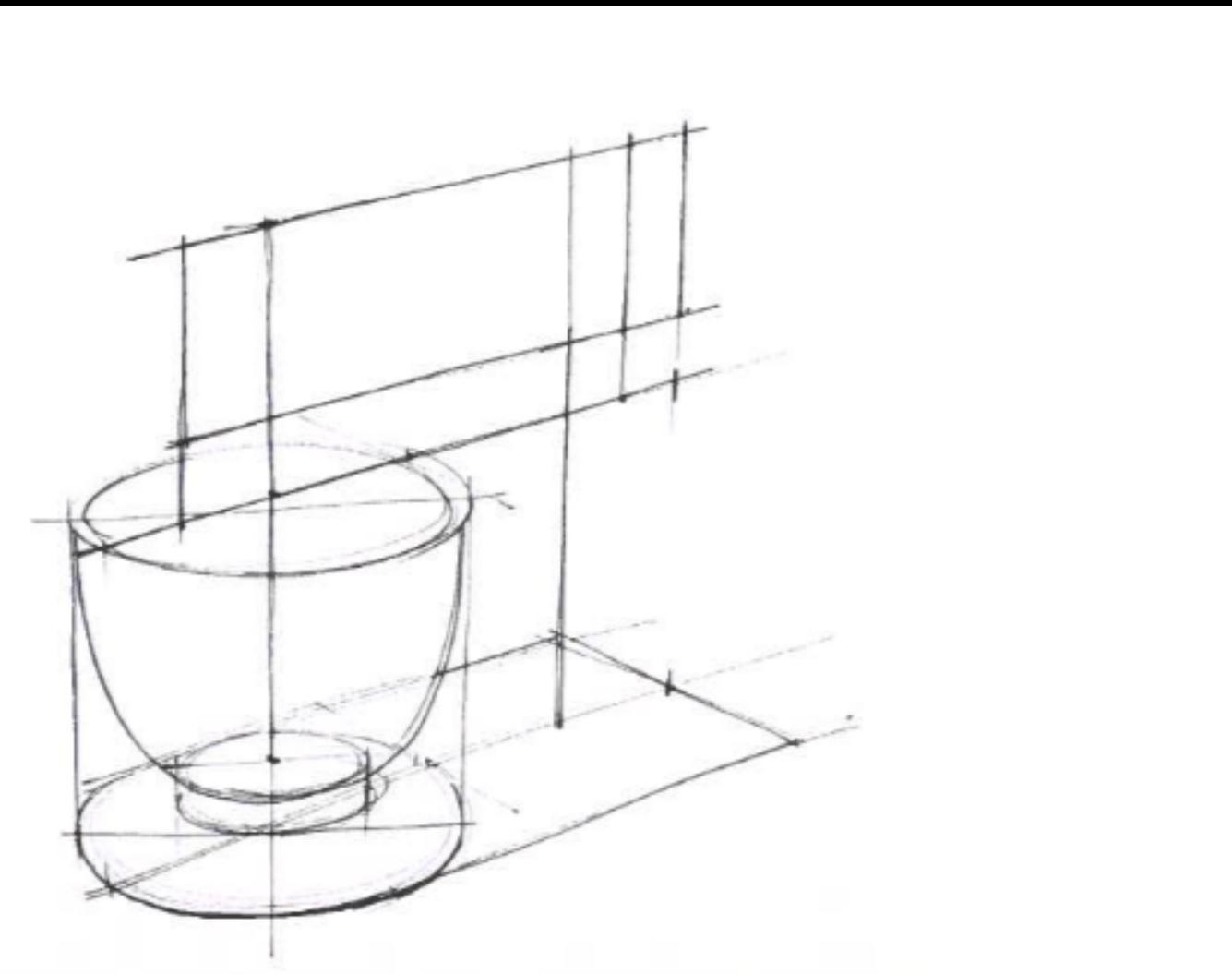
### Sketching Form WHEN IS THE BEST POINT TO STOP?



Hugo Barros Costa.



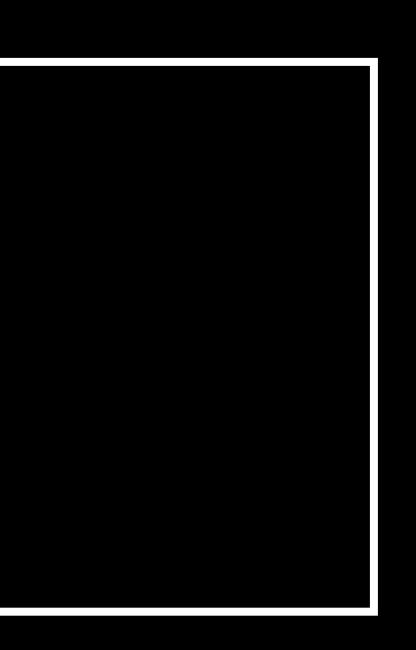
### Sketching Form HOW TO ORGANIZE THE OBJECT?





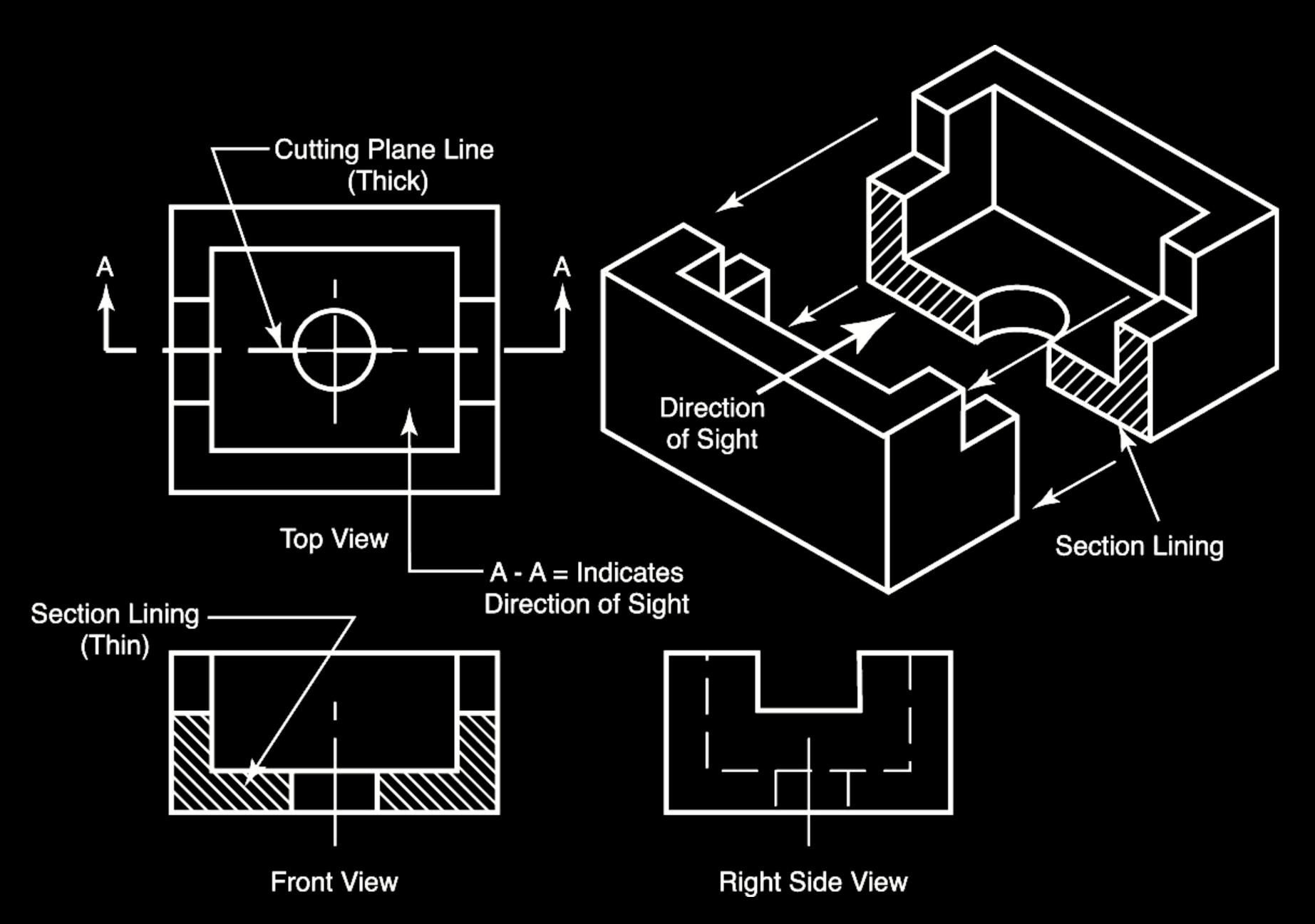
### **Exercise 1 1 MINUTE SKETCHES** 15 min

#### **Sketching Form** SIDE VIEW AND TOP



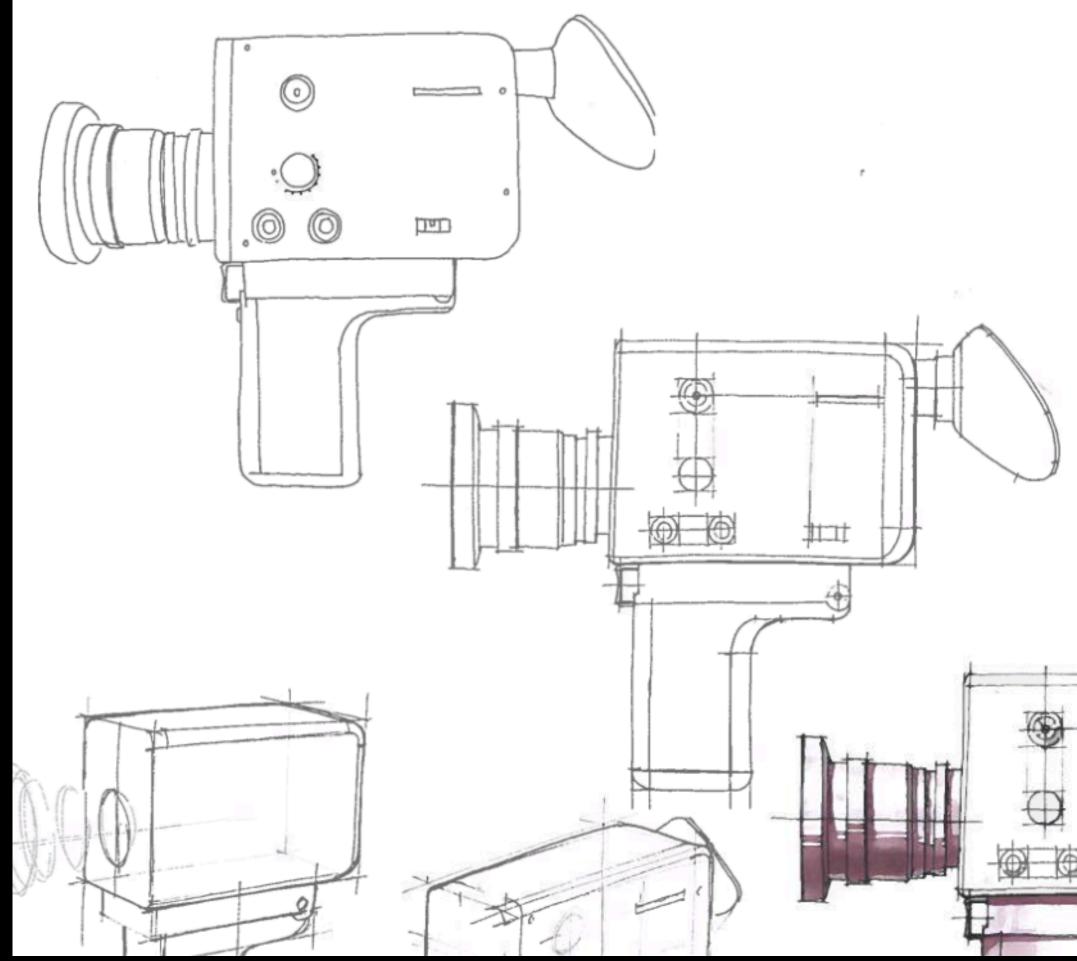


### Sketching Form Planar Views





### Sketching Form Planar Views



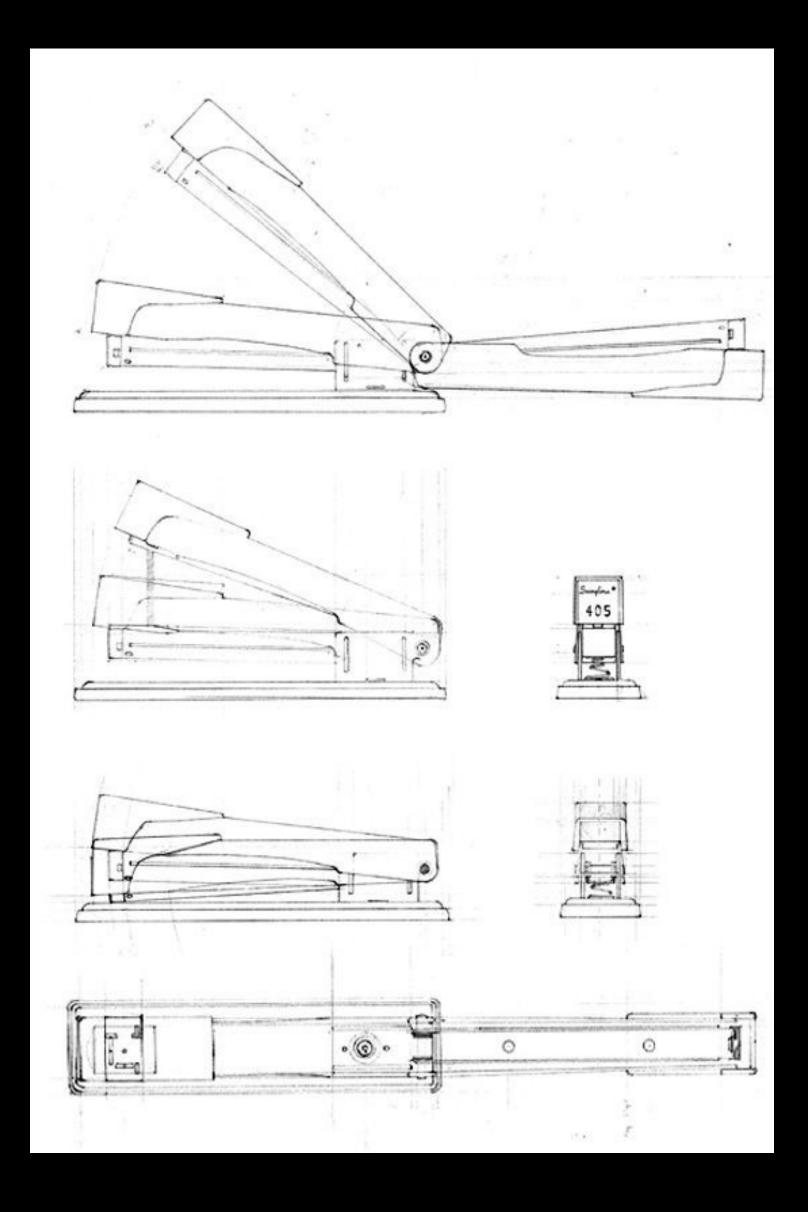


Sketching the Basics

Steur, Eissen

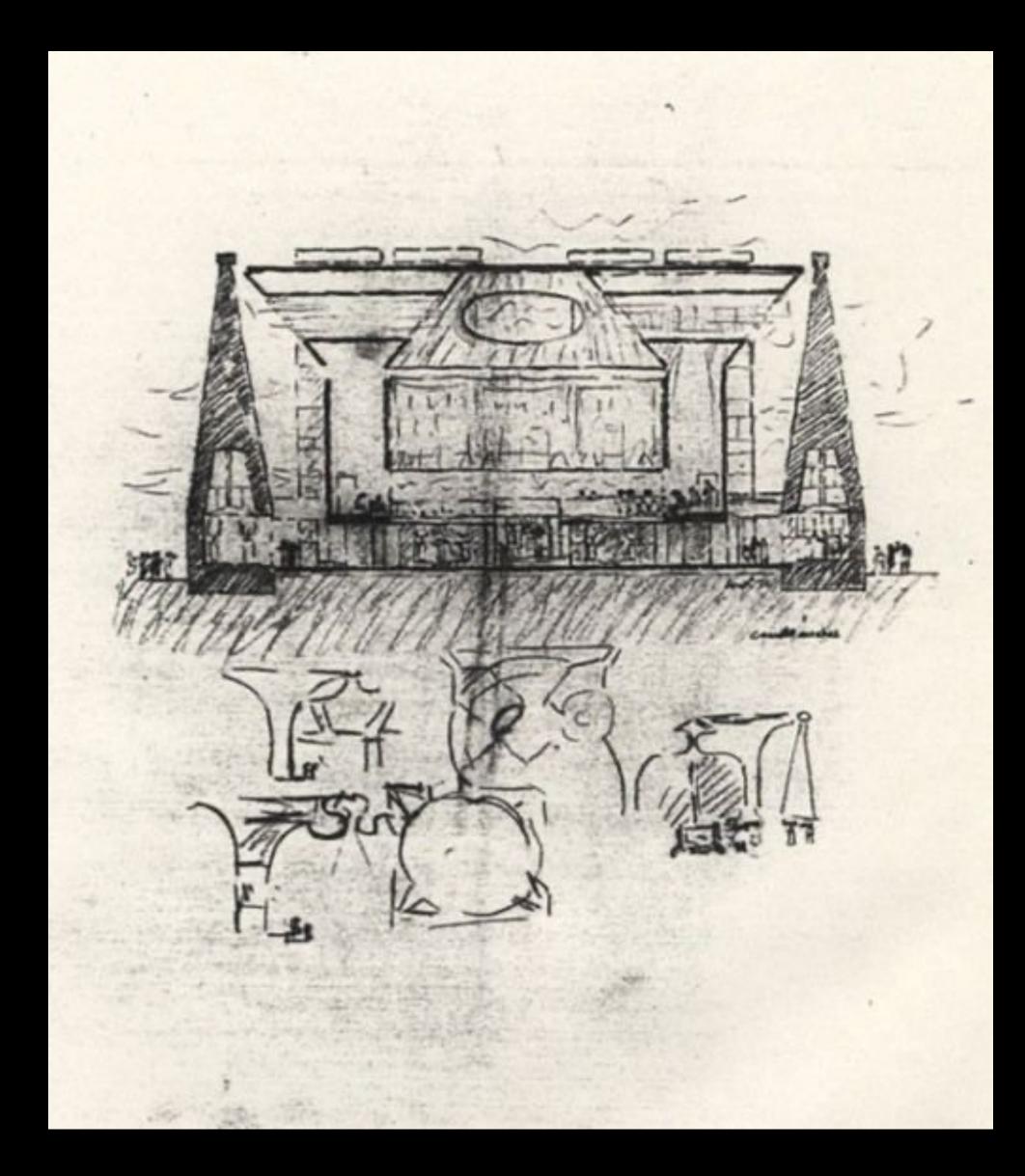


### Sketching Form SIDE VIEW & TOP VIEW





### Sketching Form SIDE VIEW & TOP VIEW



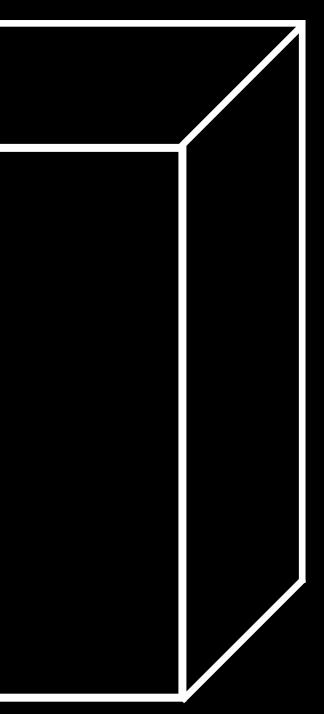


**Exercise 2** 10 min

# SIDE VIEW OF YOUR OBJECT

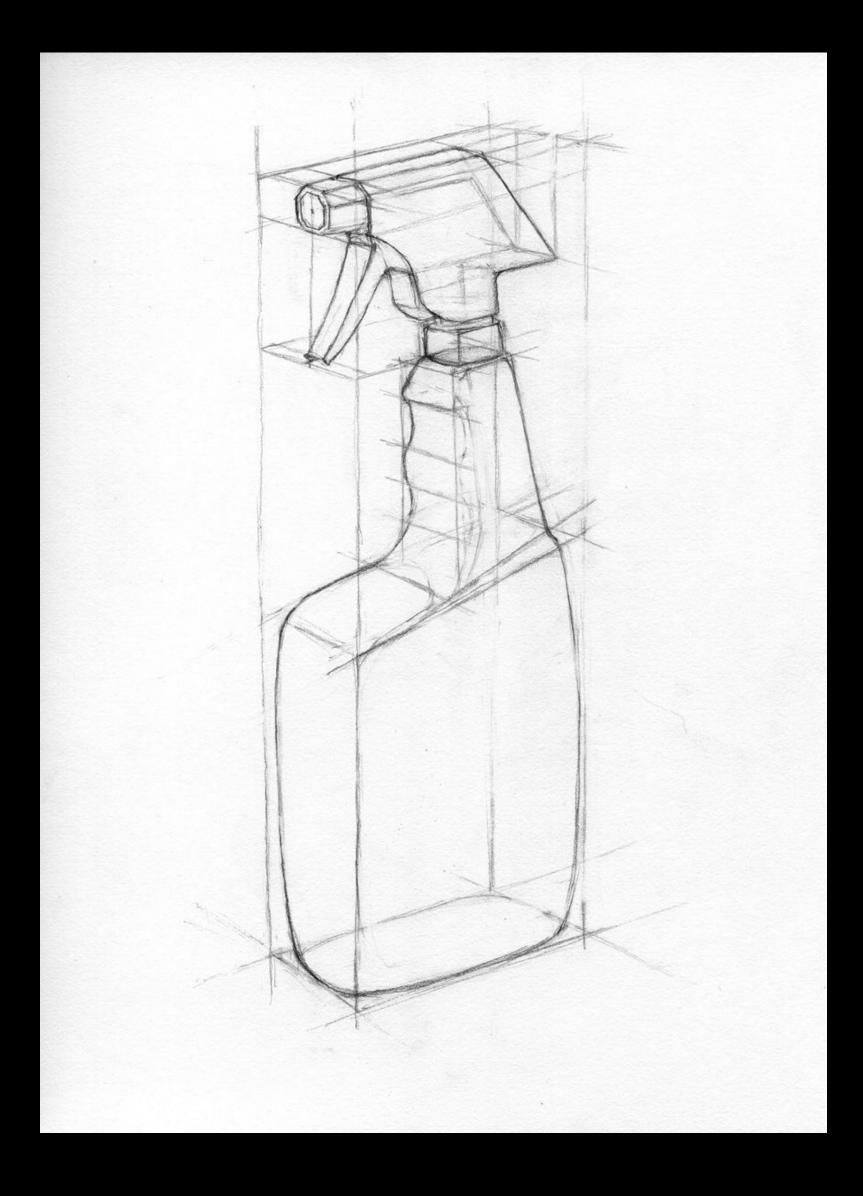
## Sketching Form AXONOMETRIC DRAWING





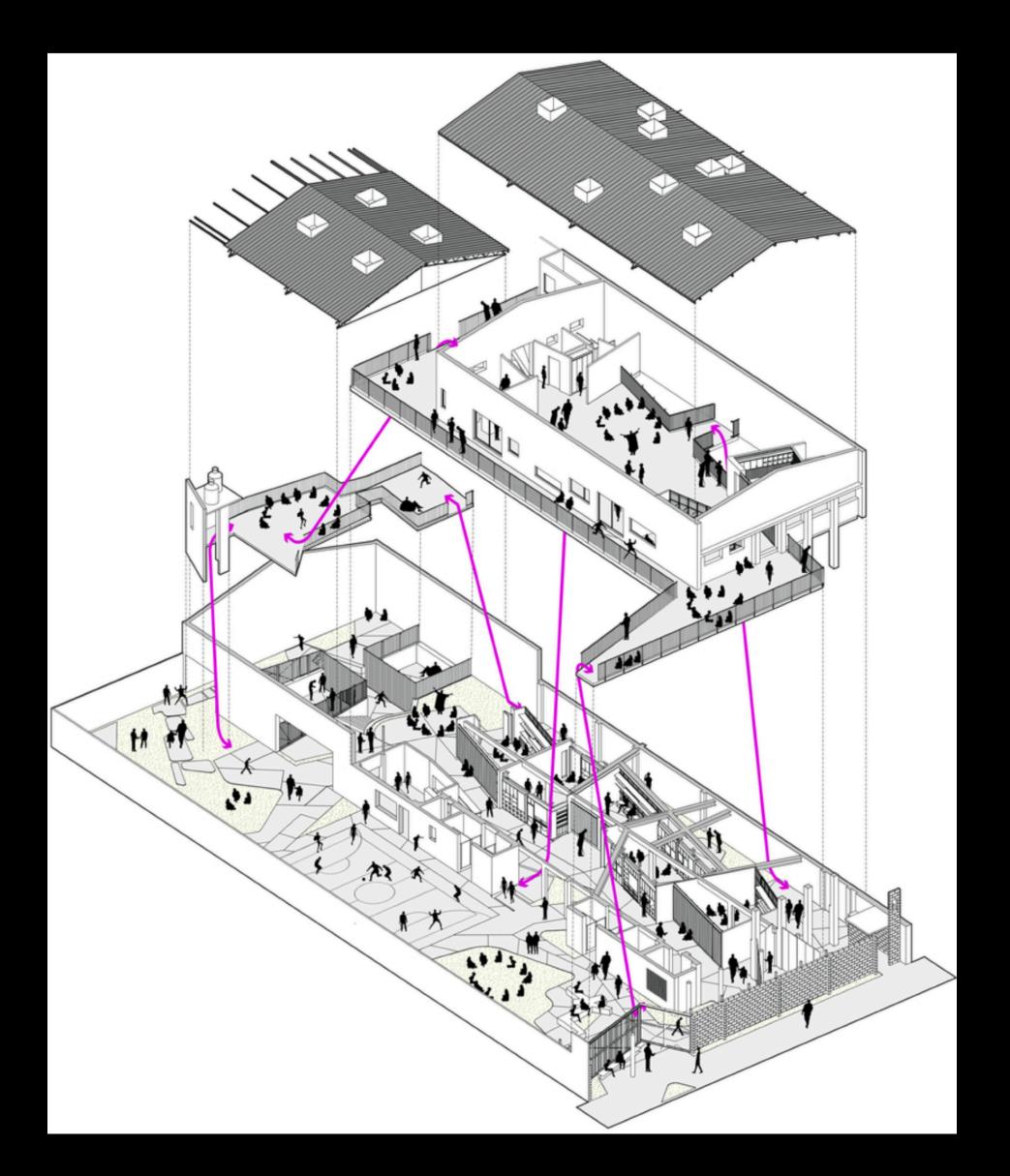


#### Sketching Form WHAT IS AN AXONOMETRIC DRAWING?



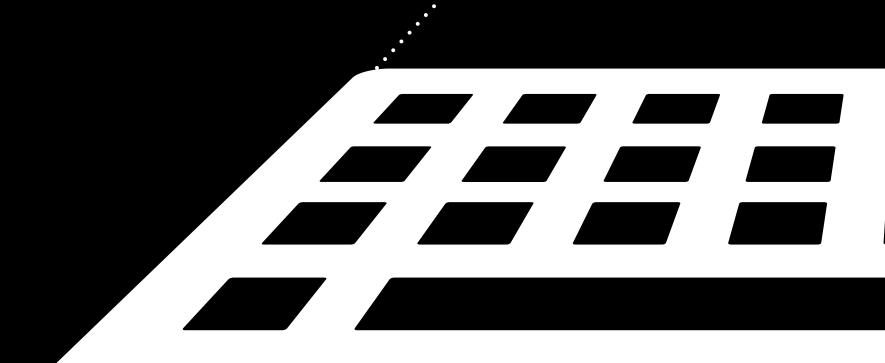


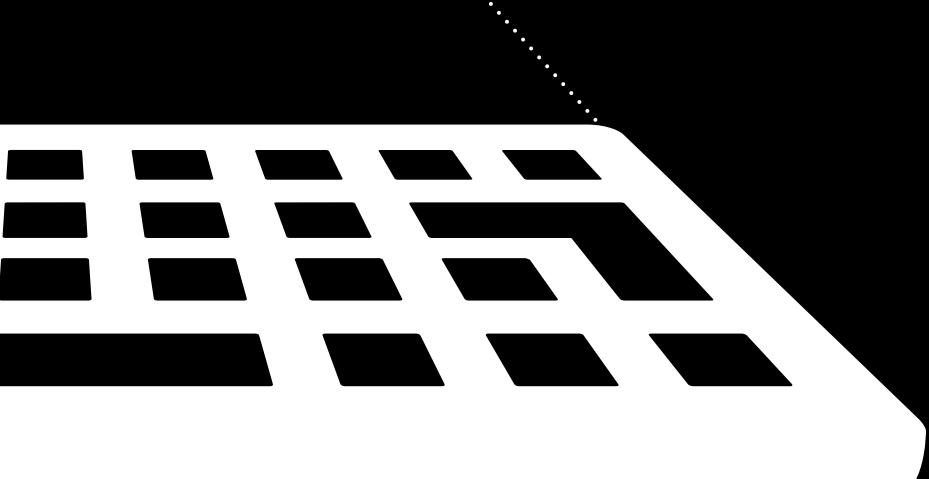
## Sketching Form WHAT IS AN AXONOMETRIC DRAWING?



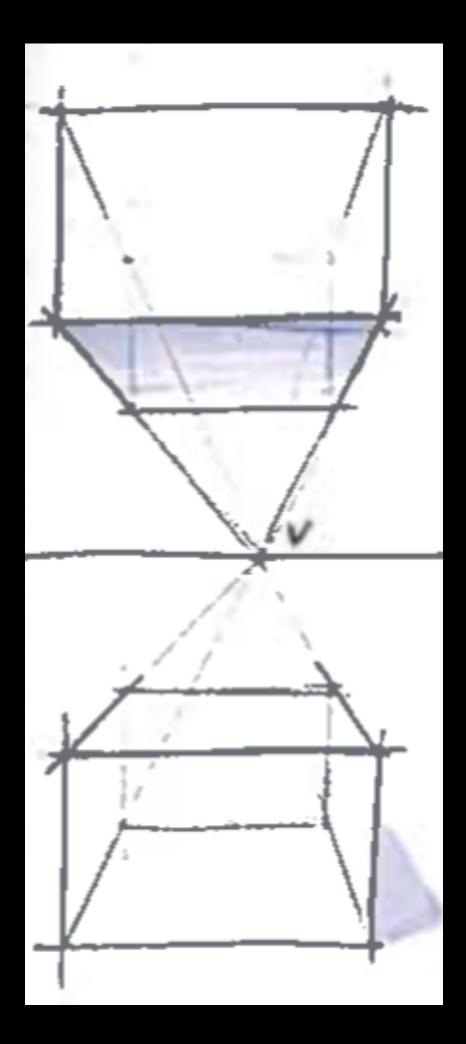


# S min



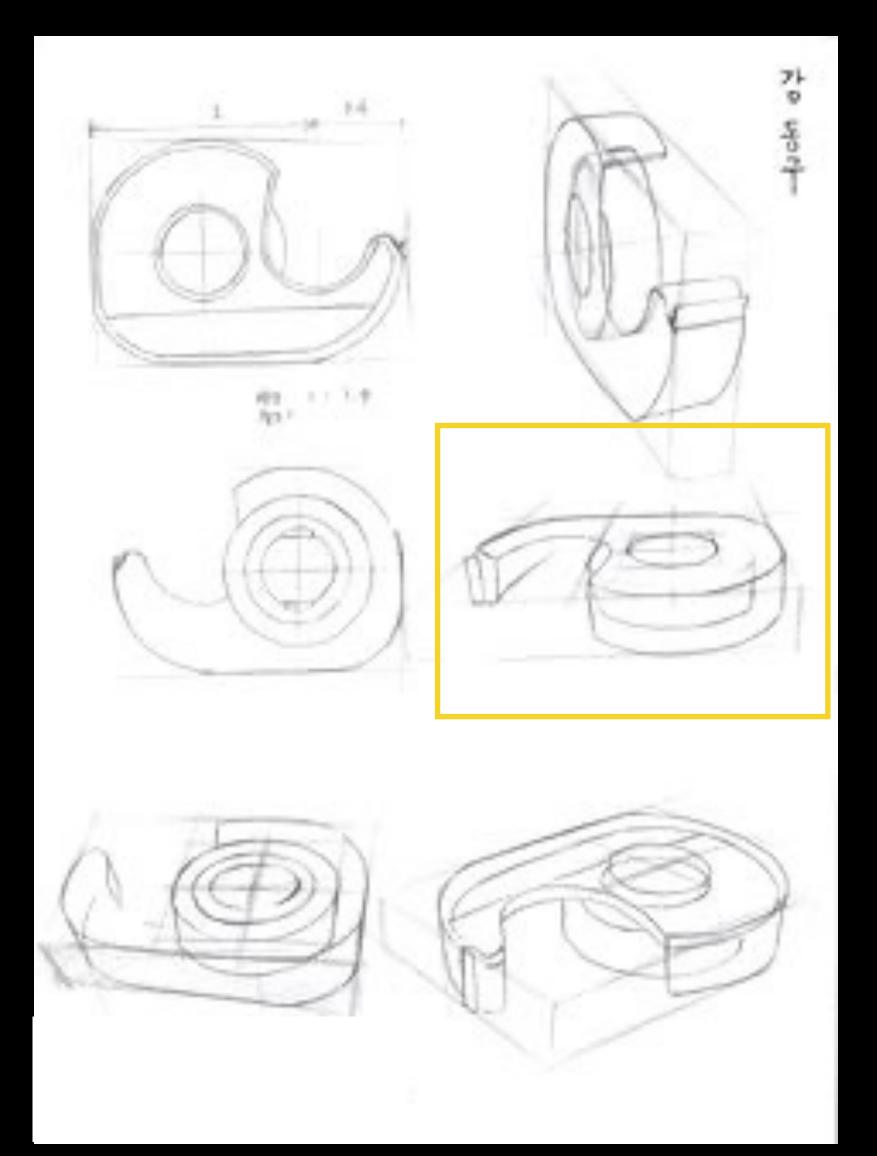




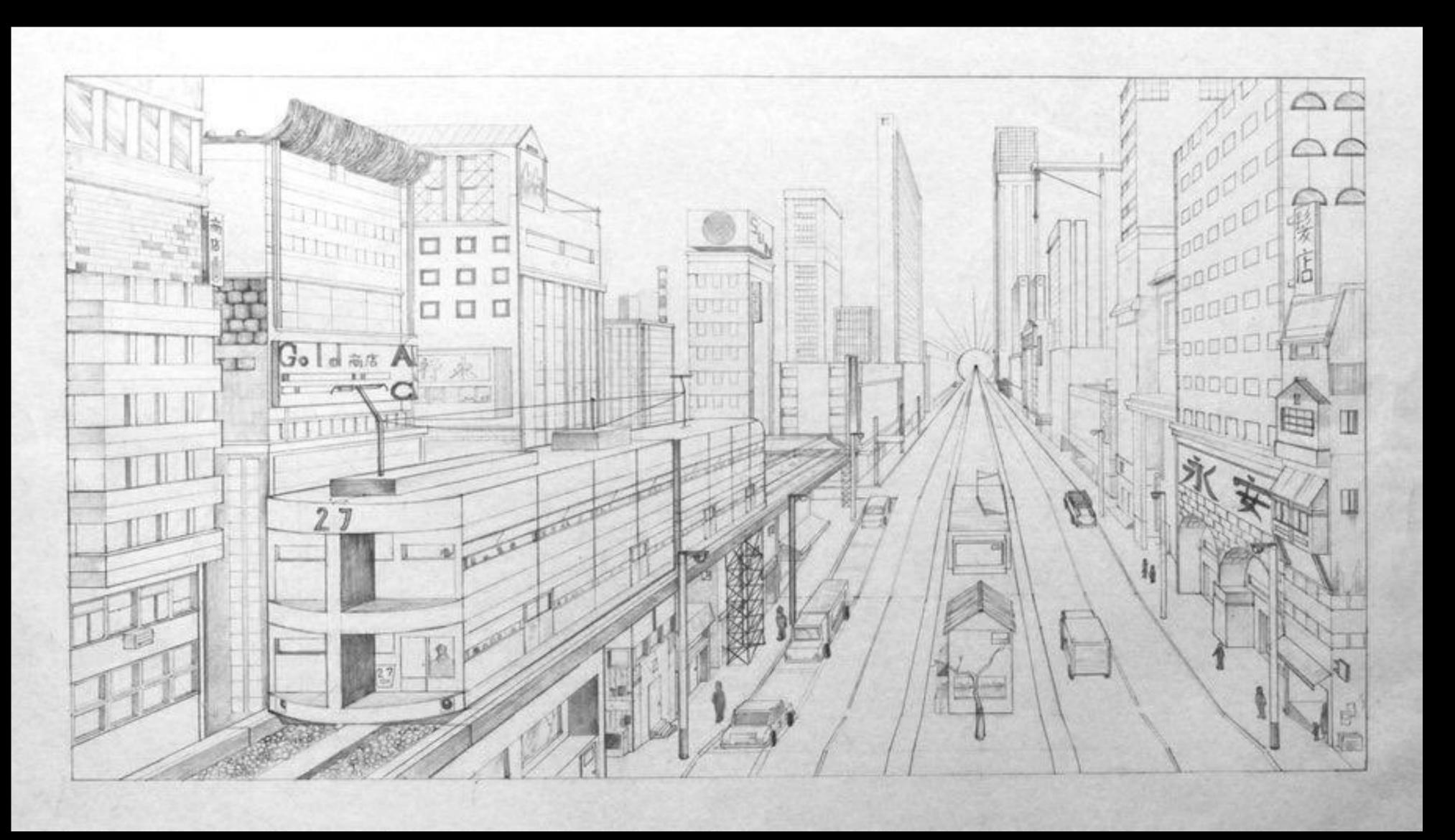


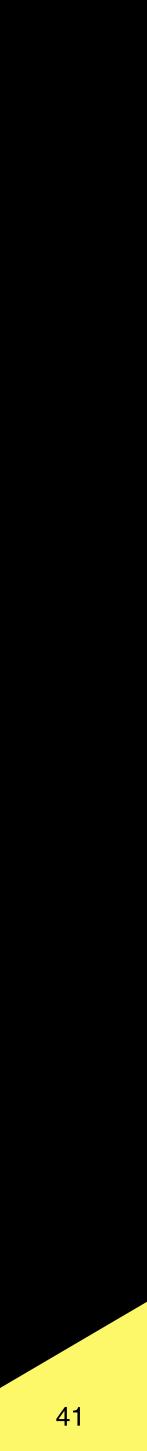
Sketching the Basics Steur, Eissen 2011

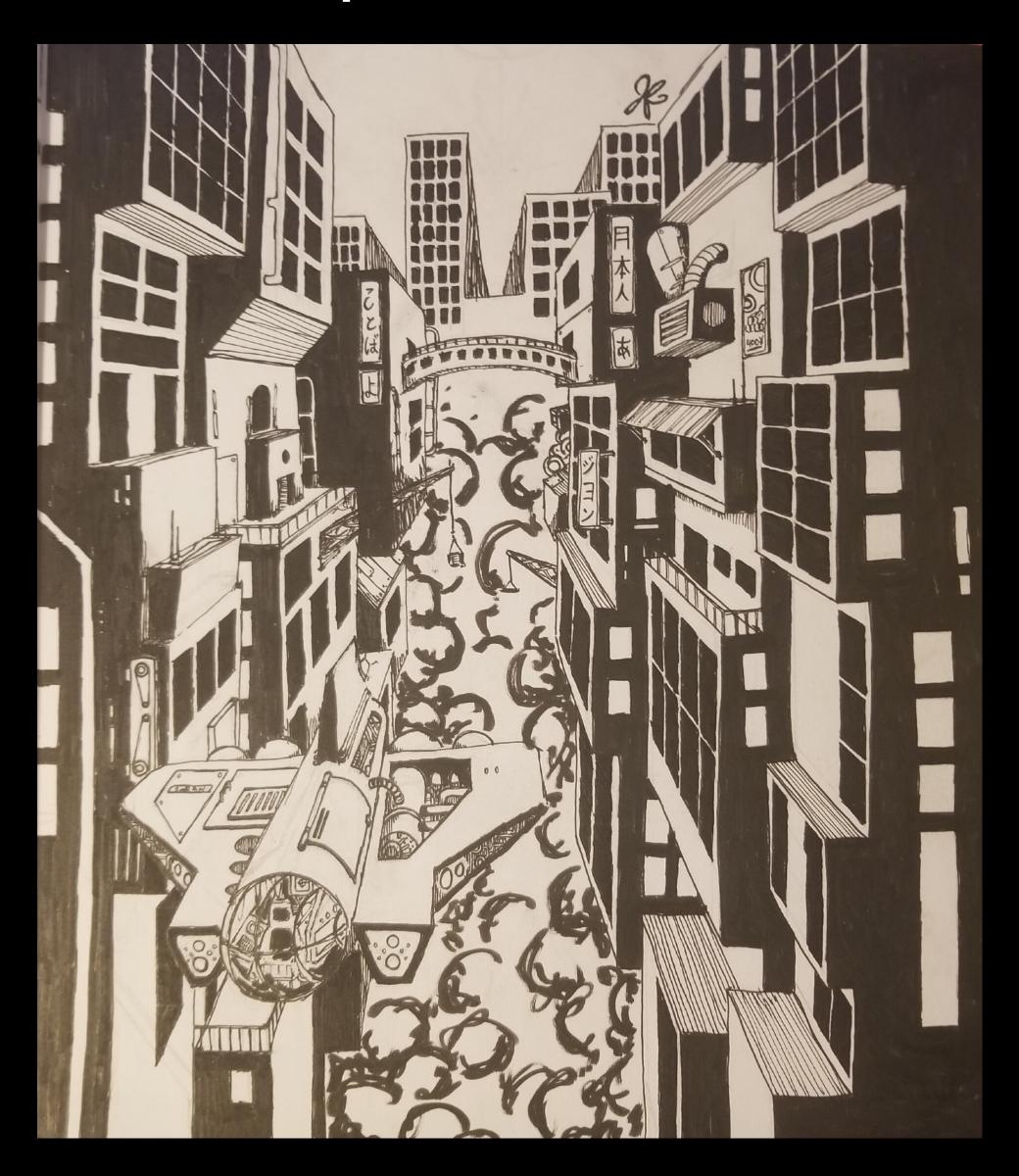




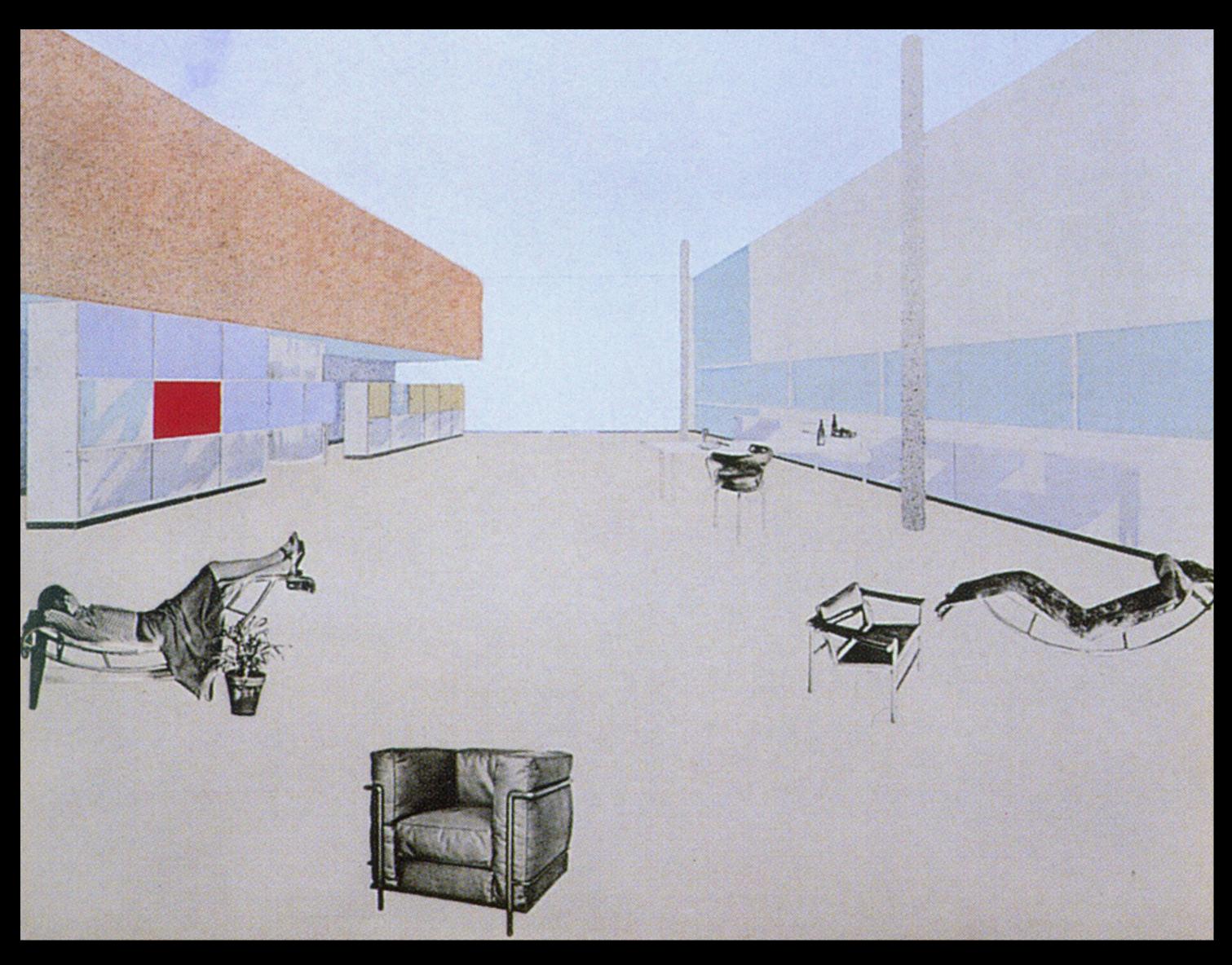




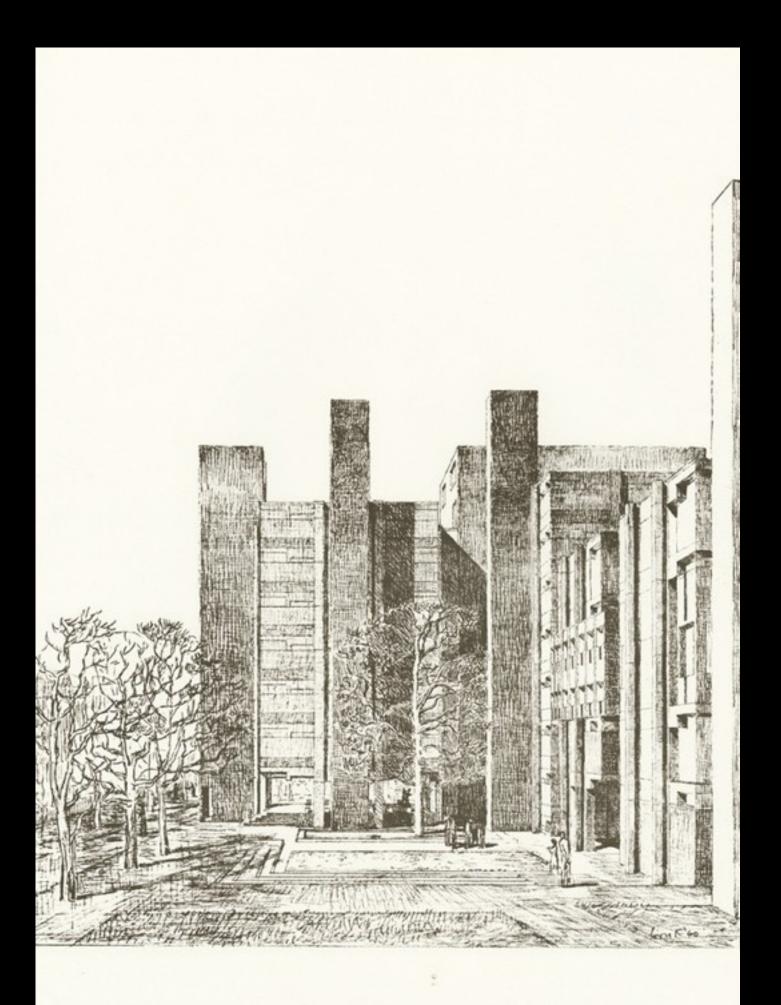




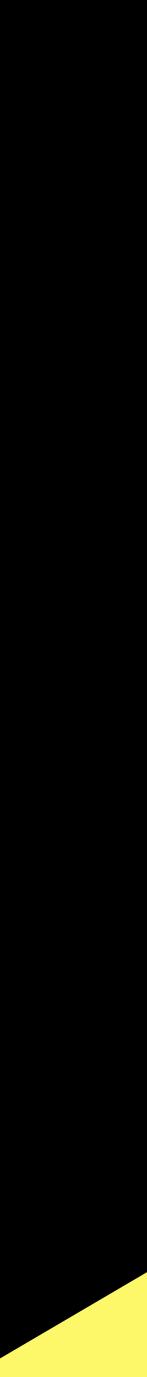




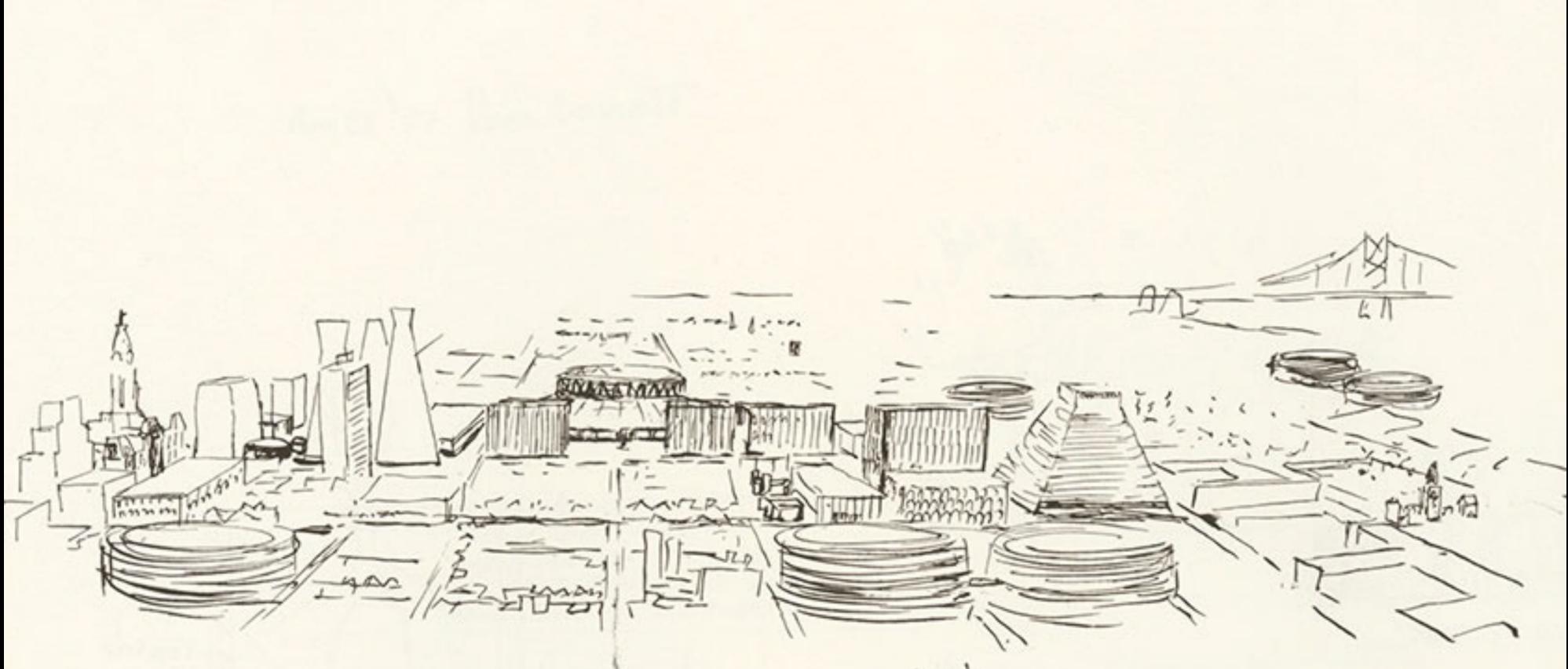




37. 1987 A. N. Richards Modical Research Building, University of Pennsylvania, Philadelphia, defaitive study/17% pencil on tracing paper/see note

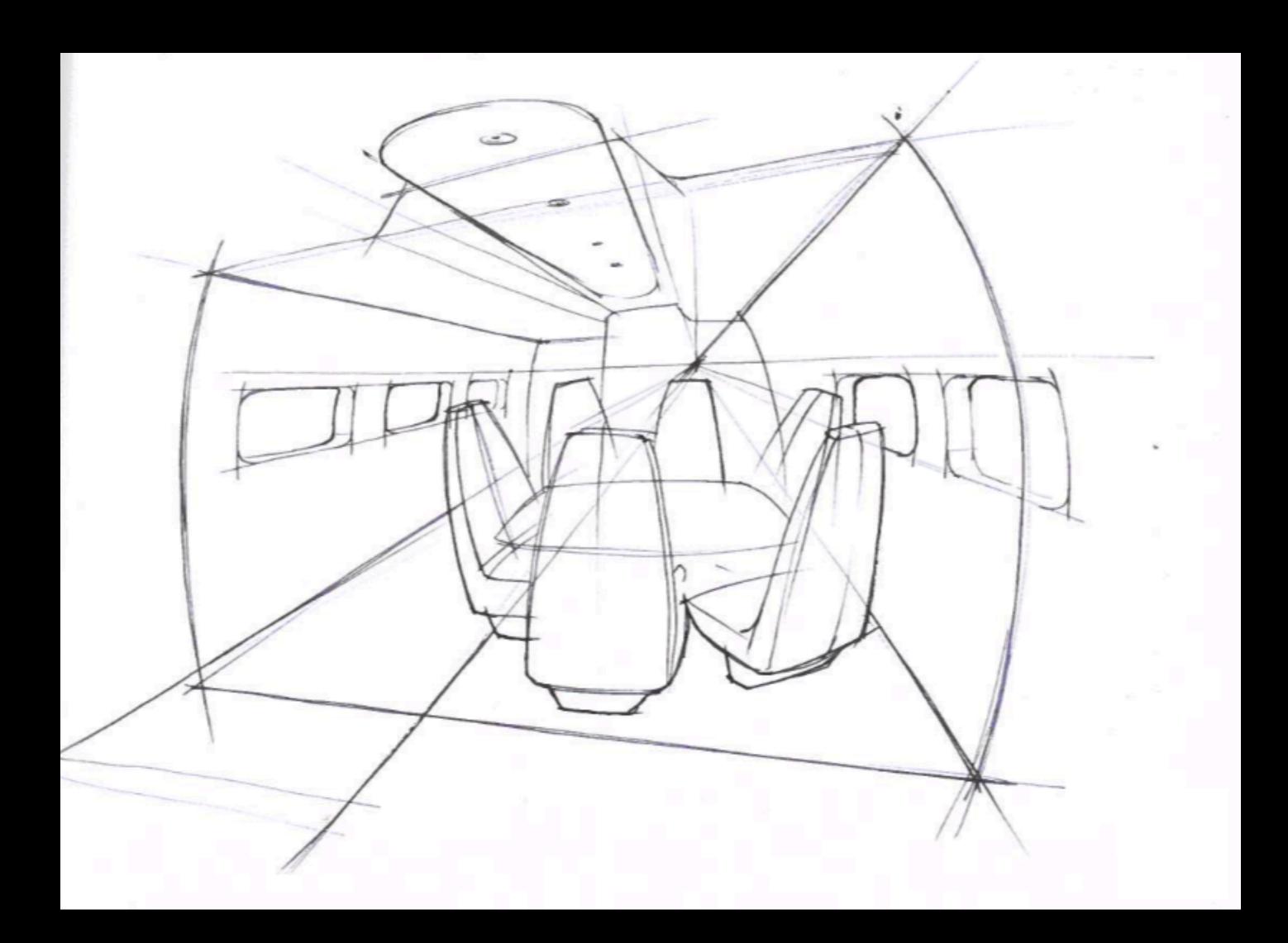


44

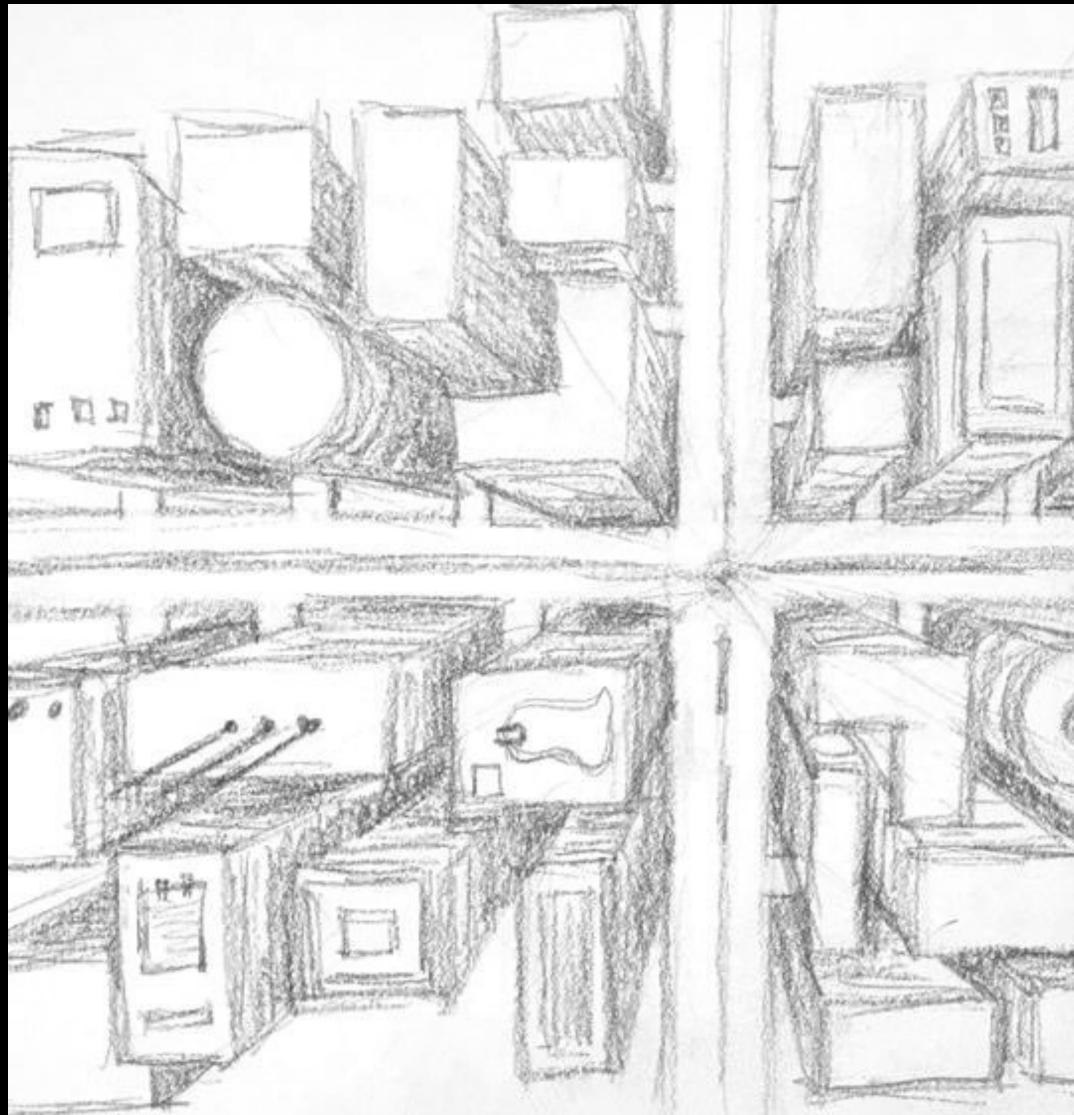


Lowkin



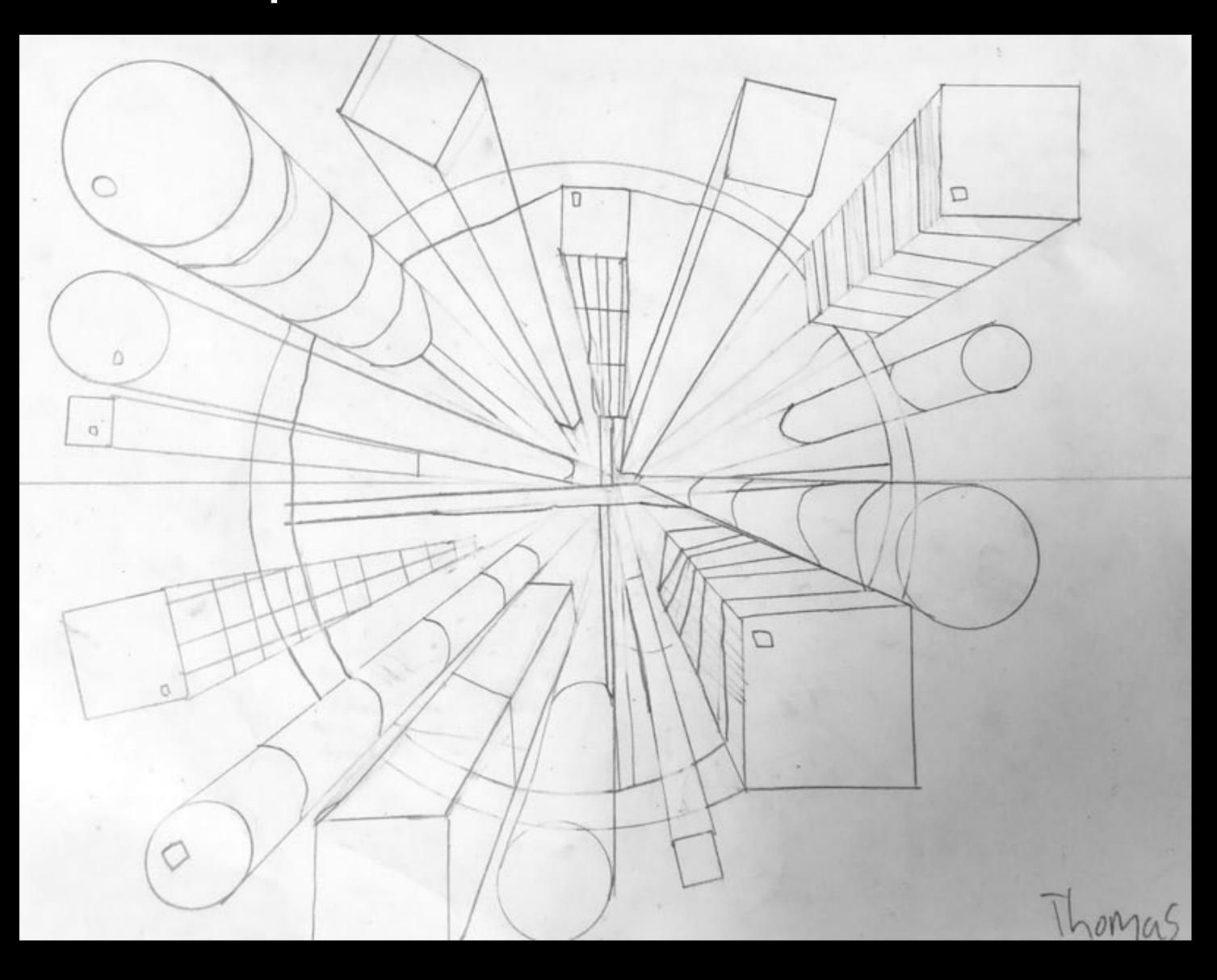






BUUUU Product of the second strate of the second strate and the second strate and the second strate of the second strate and a state of the (4) 加加 A REAL PROPERTY.





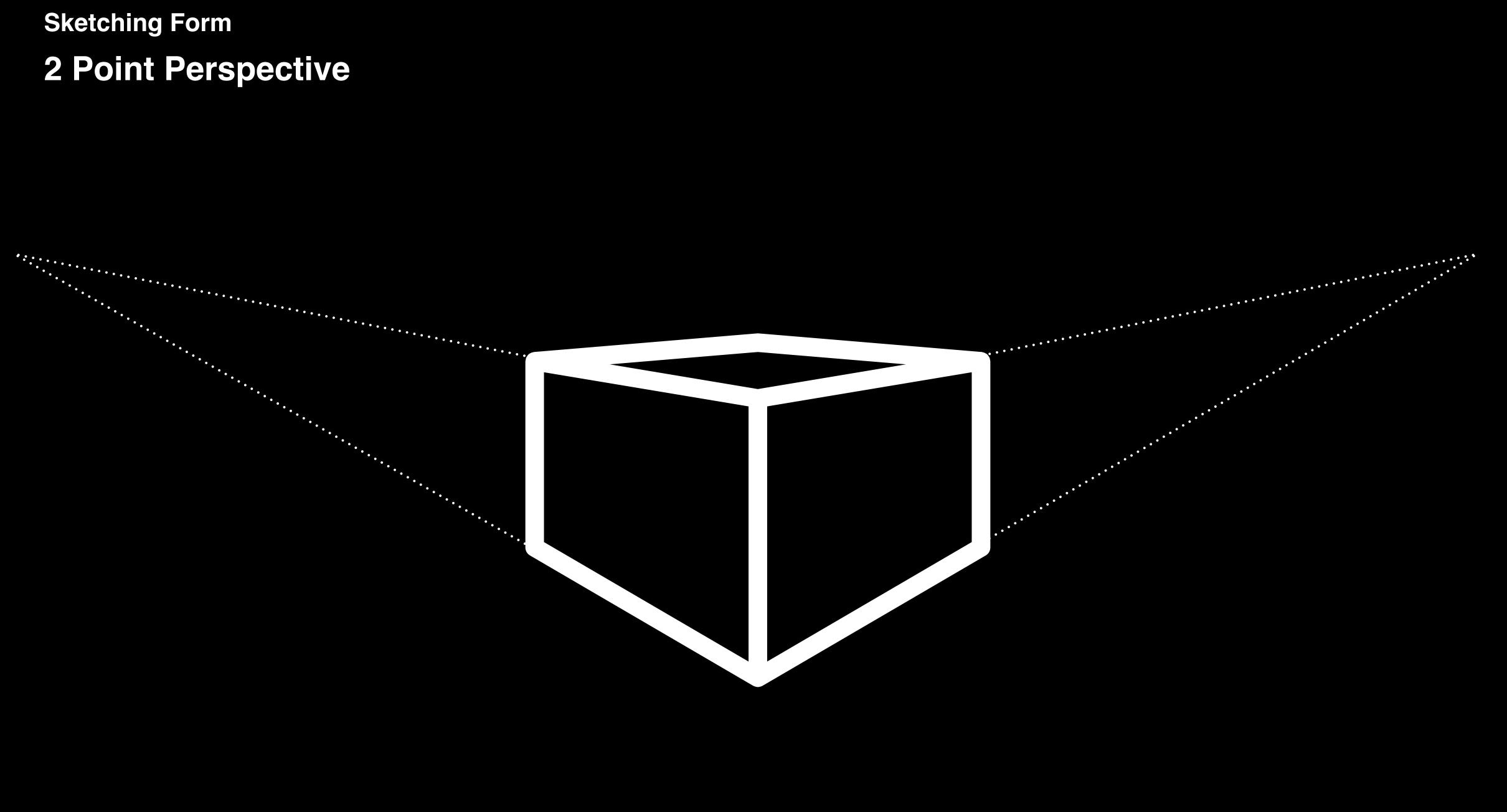


#### **1-POINT ARCHITECTURE** 20 min

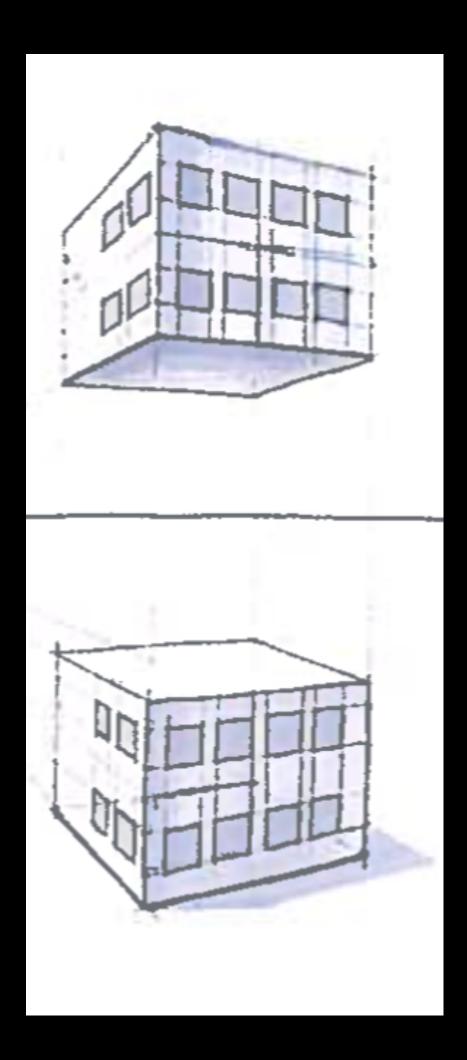
#### **1-POINT PERSPECTIVE** 20 min

#### LUNCH BREAK 1 Hour









Sketching the Basics Steur, Eissen 2011









WE'DE PERSO REPORT IN SE DECEME SATATION ES ESSERT IN PRODUCTIONETE LE SENTE RADA PROVENIENTE TOTALE EUGEN & COURSE GOUND. ART BUTEN BASILICA DI SAUT'ANDREDIO

LA CRISCI È STATI ENFLIATO FILONEMPINENPI DA BANILICA PARTYRINA , ENGLISA MEL IV STORIO JA CANT'AND TUL LURGE DAVE BORMA GENET) JE'I CRISTINA, MARTURIA DAS BORNS DA STRUTURE DEGUNARIA - À TRE LINATTR DAS BORNS DA STRUTURE DEGUNARIA - À TRE LINATTR DAS POLI DI CAMPANE E ARCIDE UNDER VIENT PENTANDAN TRANTPULIPARIA DA INTRIDURY: PERSUIZATI TRA 14 15

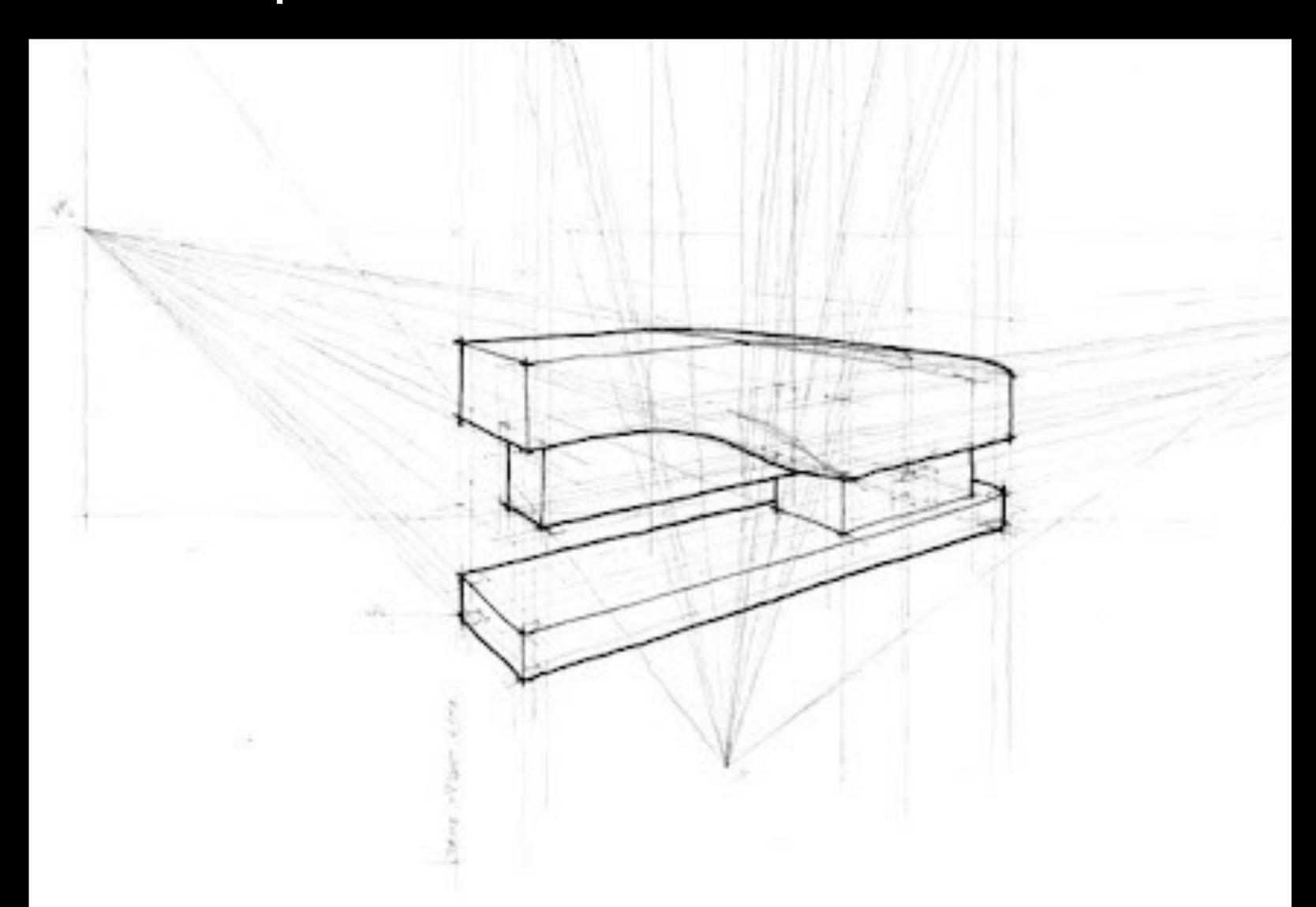
1



Find Sale das man . while Building while provide provide price of the chilling

Hugo Barros Costa, Basilica of Sant'Ambrogio, 2016.

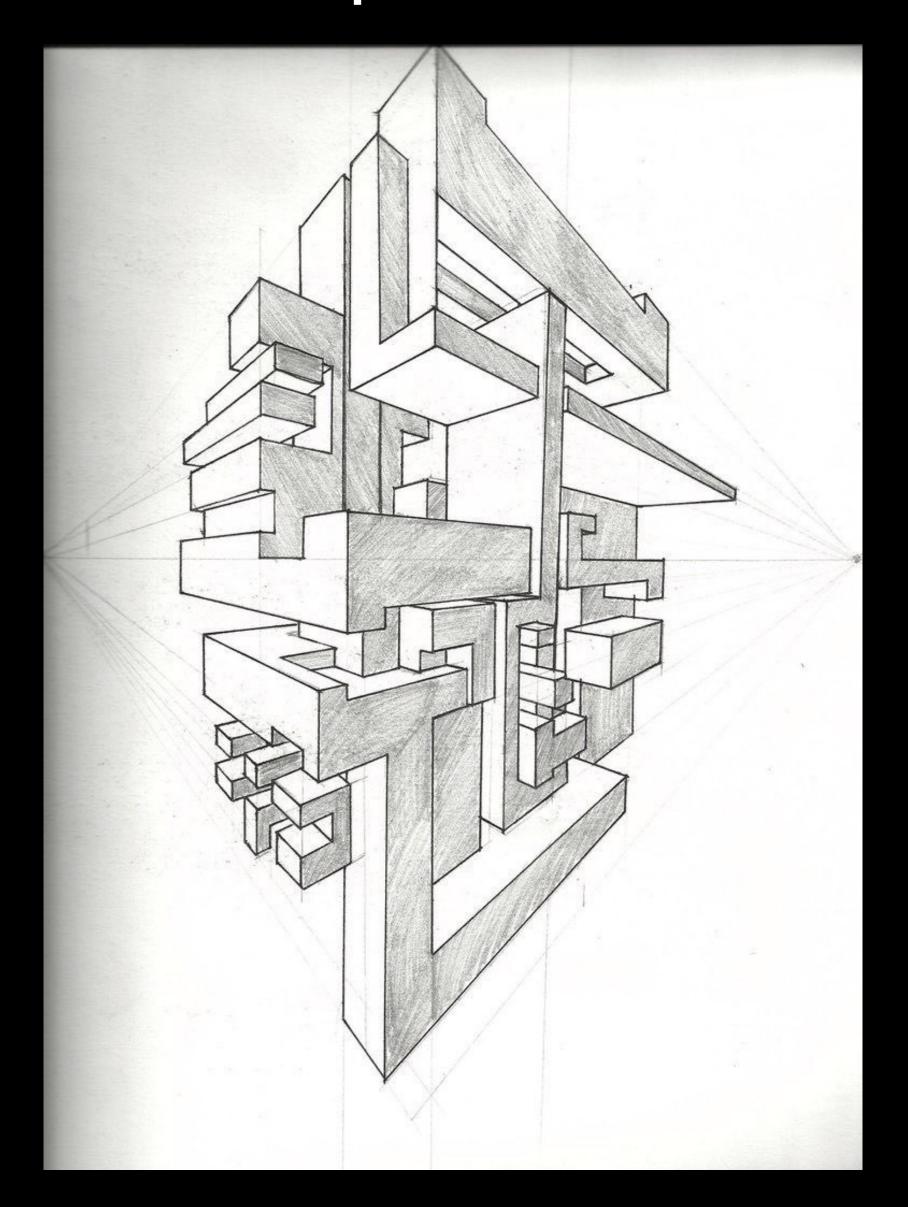








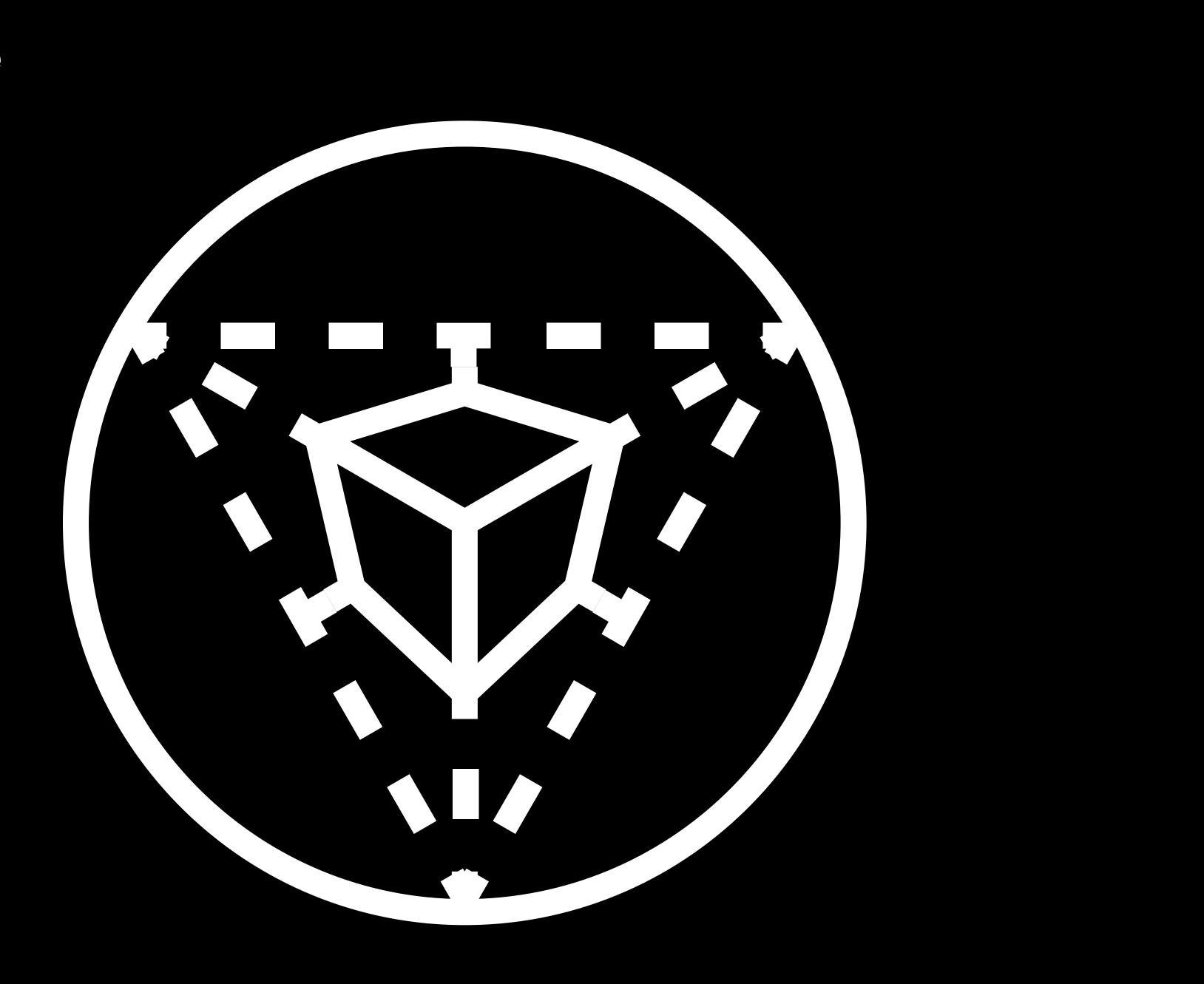




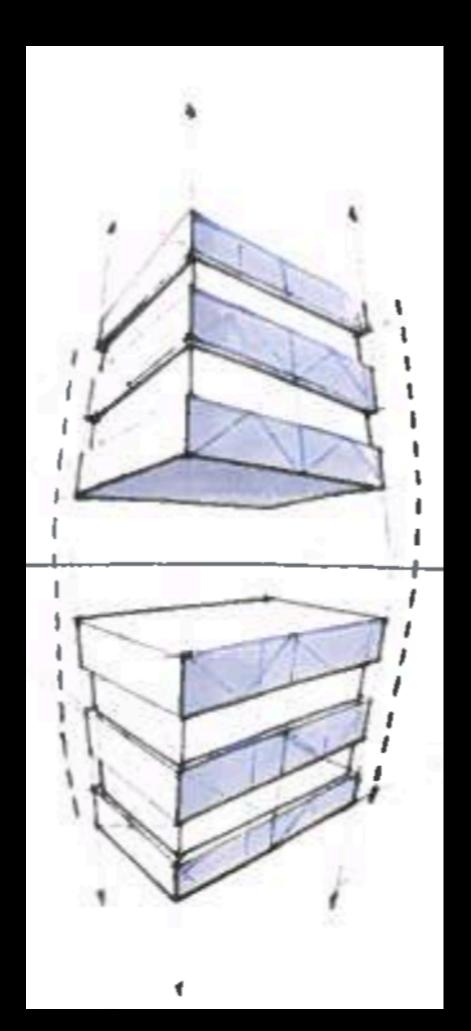


# 20 min

# 20 min

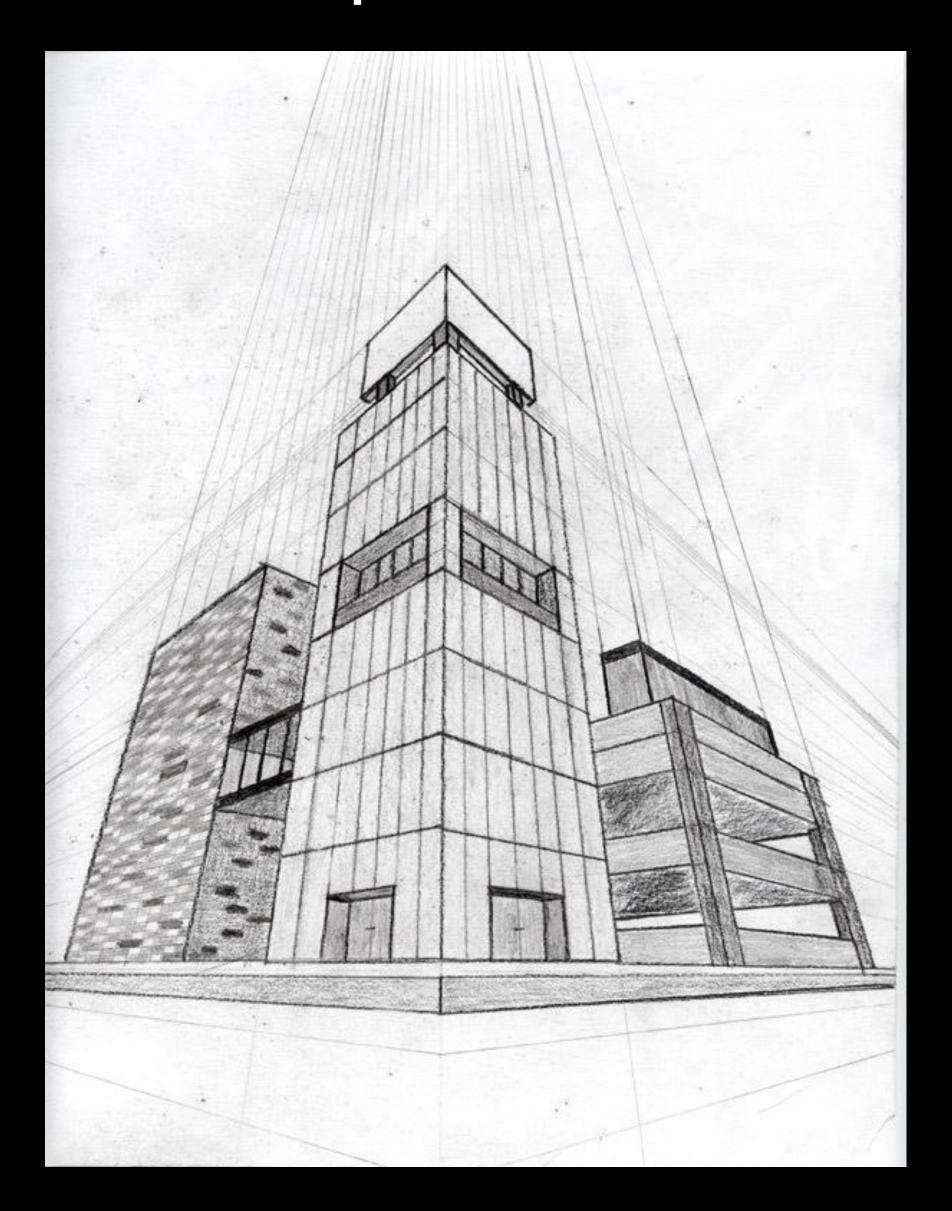




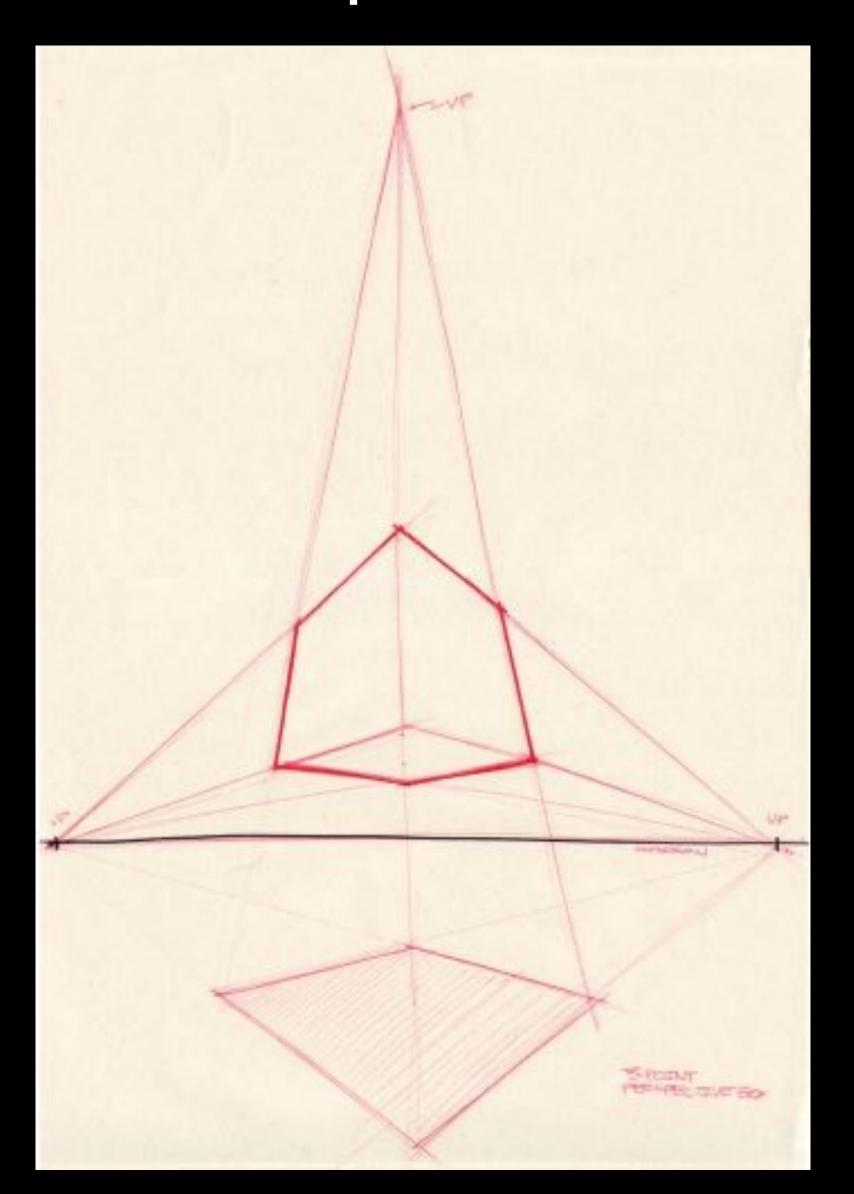


Sketching the Basics Steur, Eissen 2011

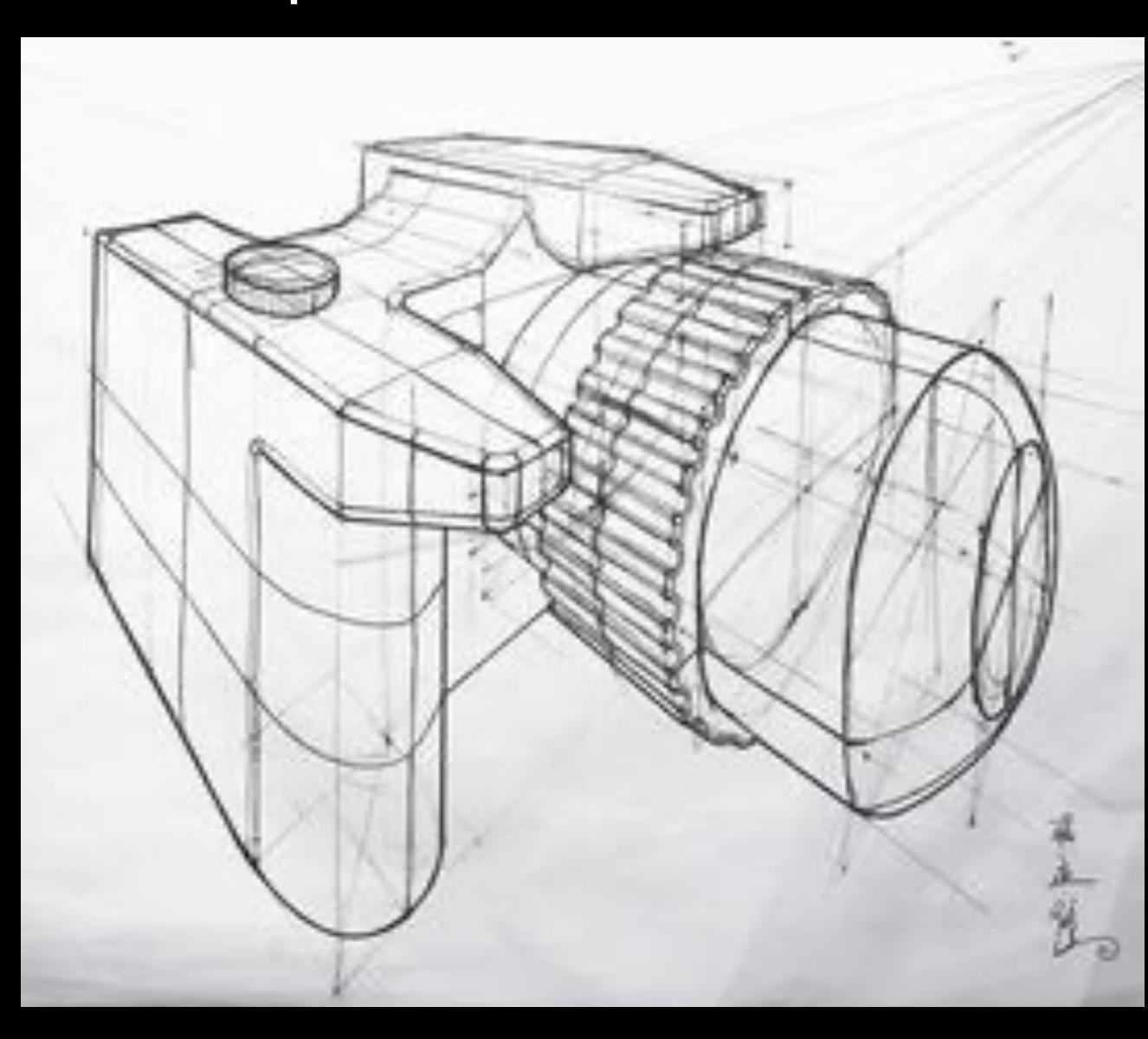




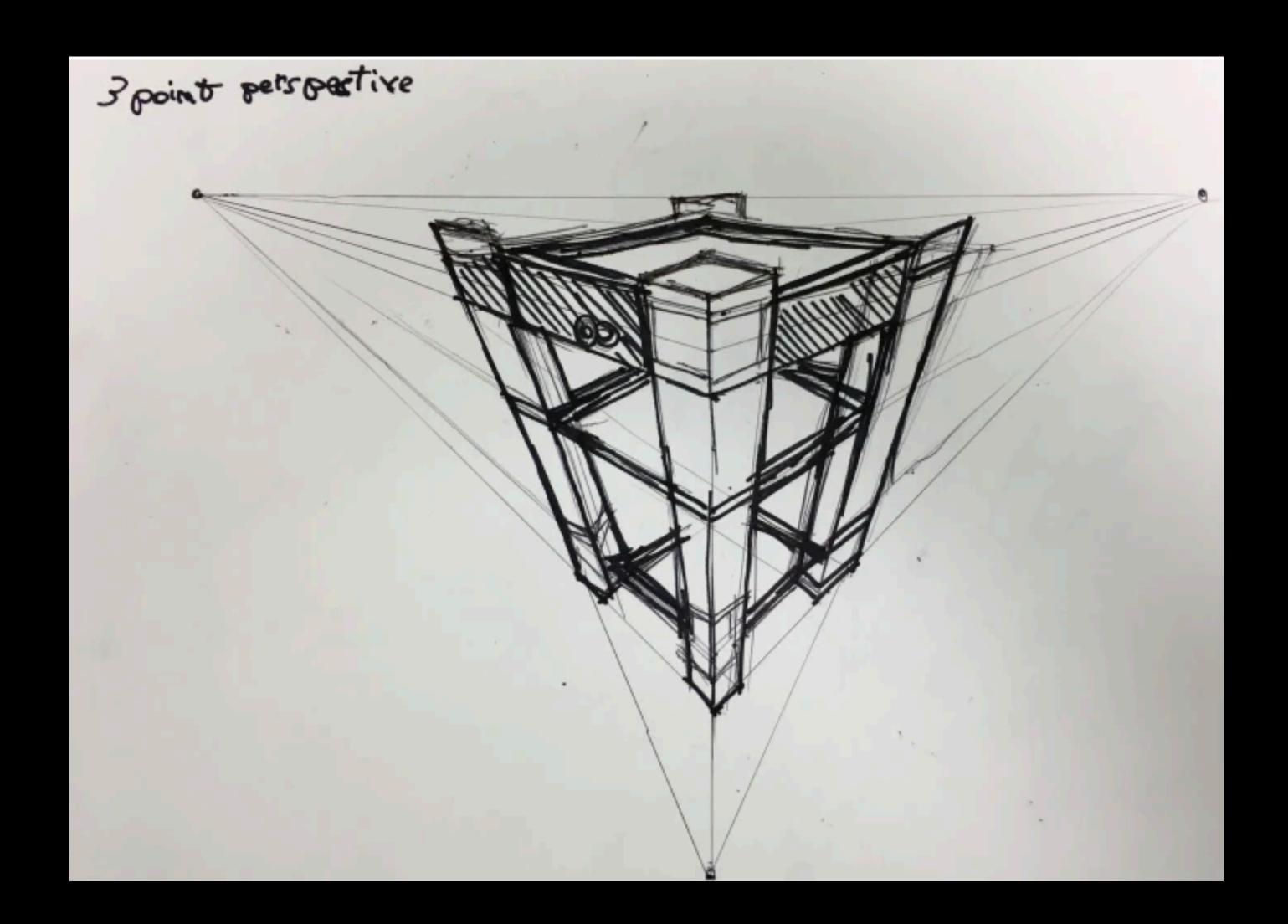








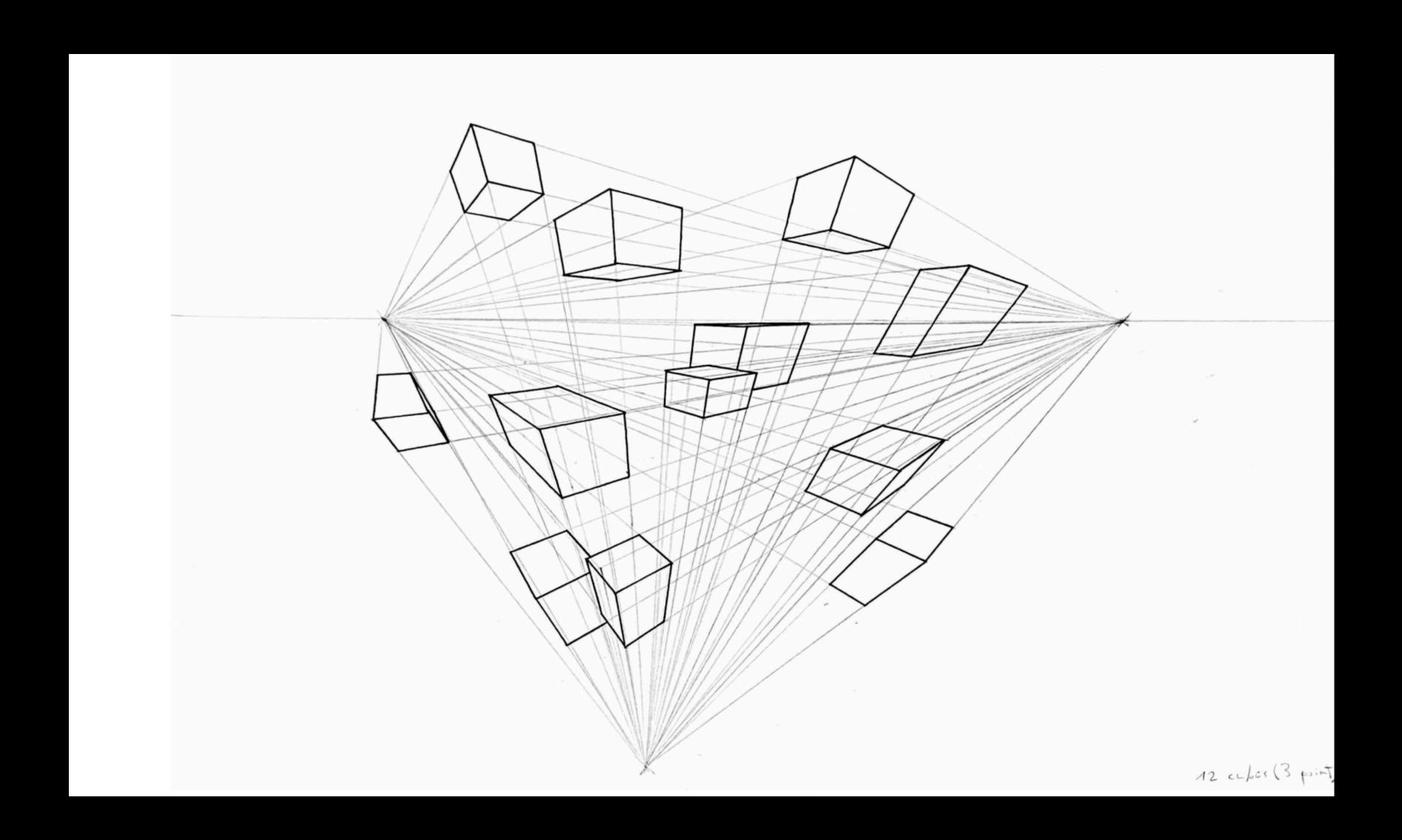




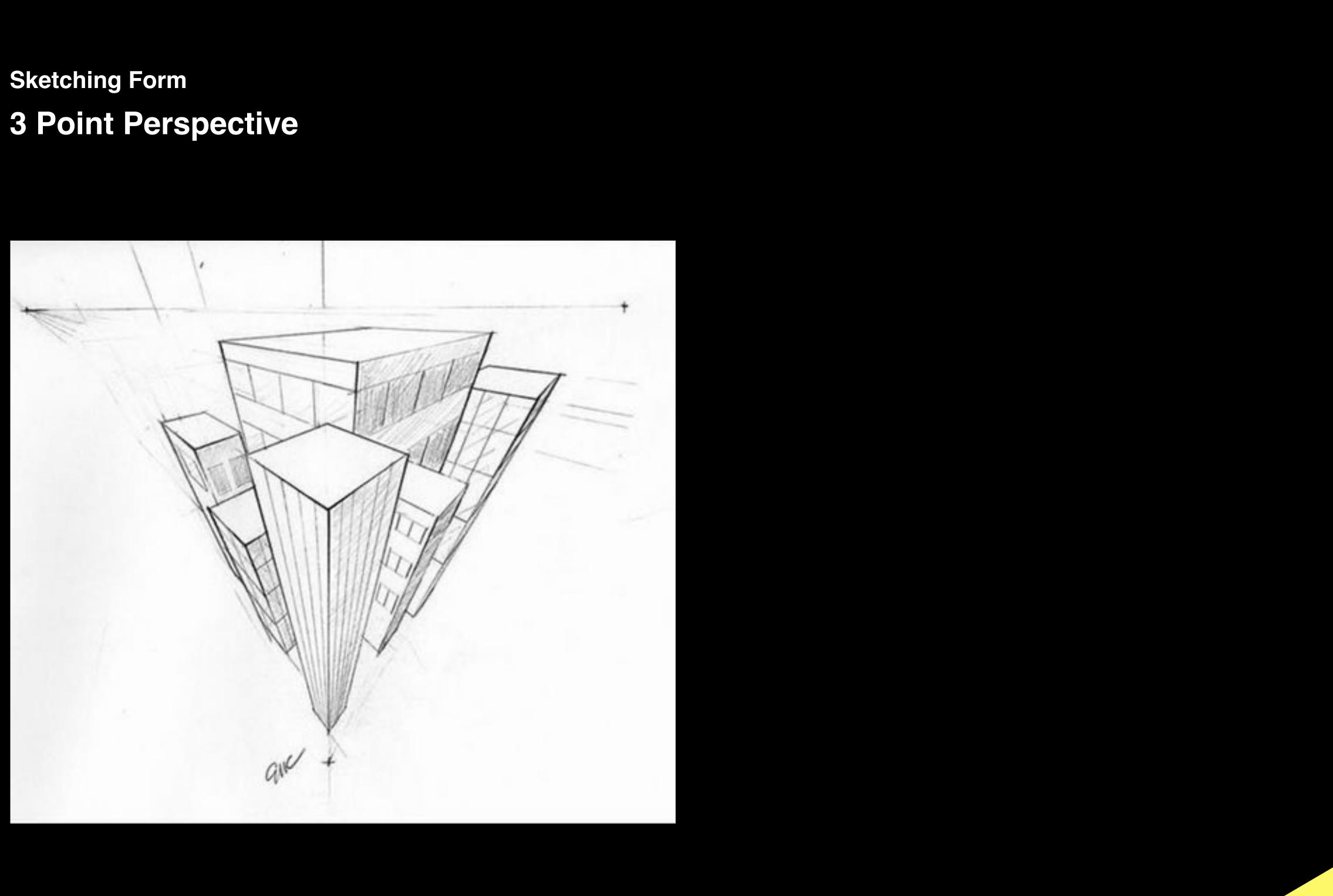














#### **3-POINT PERSPECTIVE** 20 min

#### **3-POINT ARCHITECTURE** 20 min

#### **Buckminster Fuller**

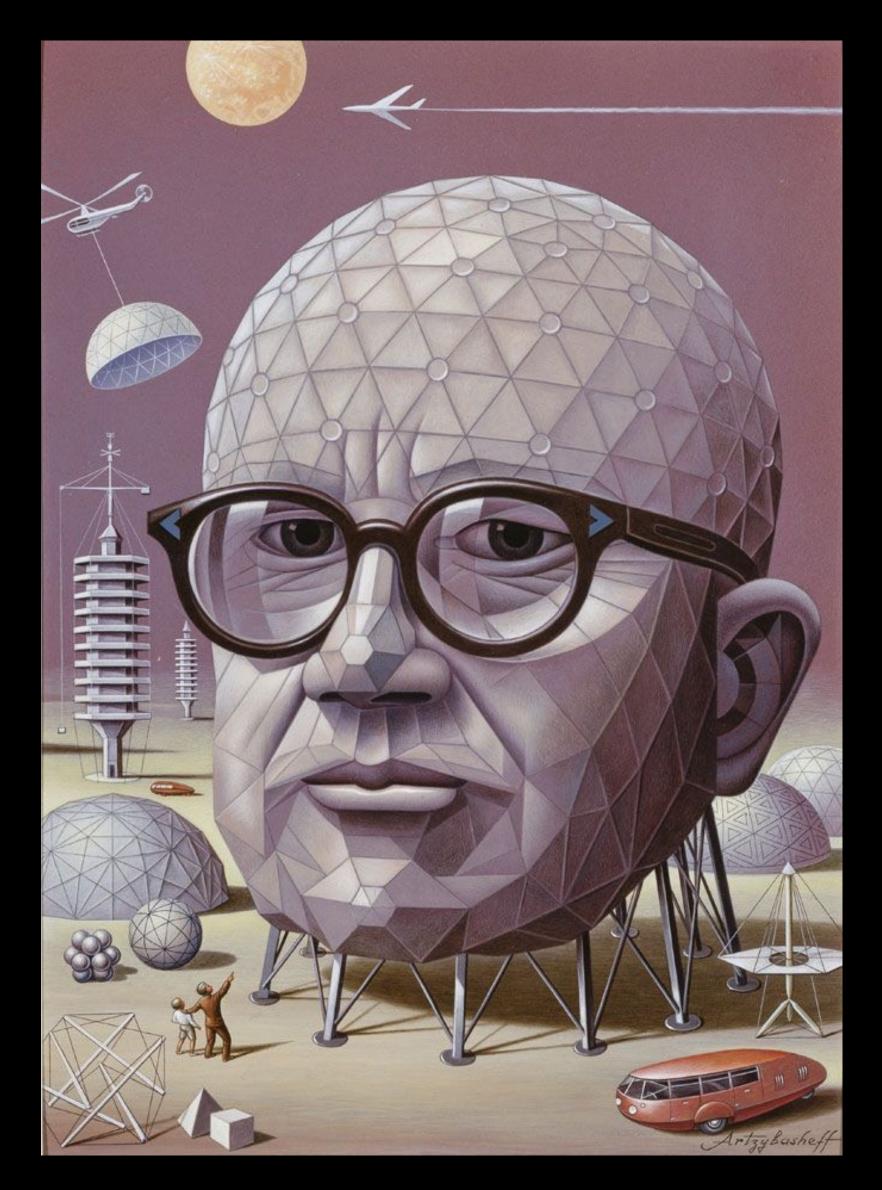


Image by: Boris Atzybasheff for Time Magazine 1964

Also see: <u>99% invisible on Buckminster Fuller</u> Wikipedia on Buckminster Fuller Wikipedia on geodesic domes



#### **Buckminster Fuller - The Person**

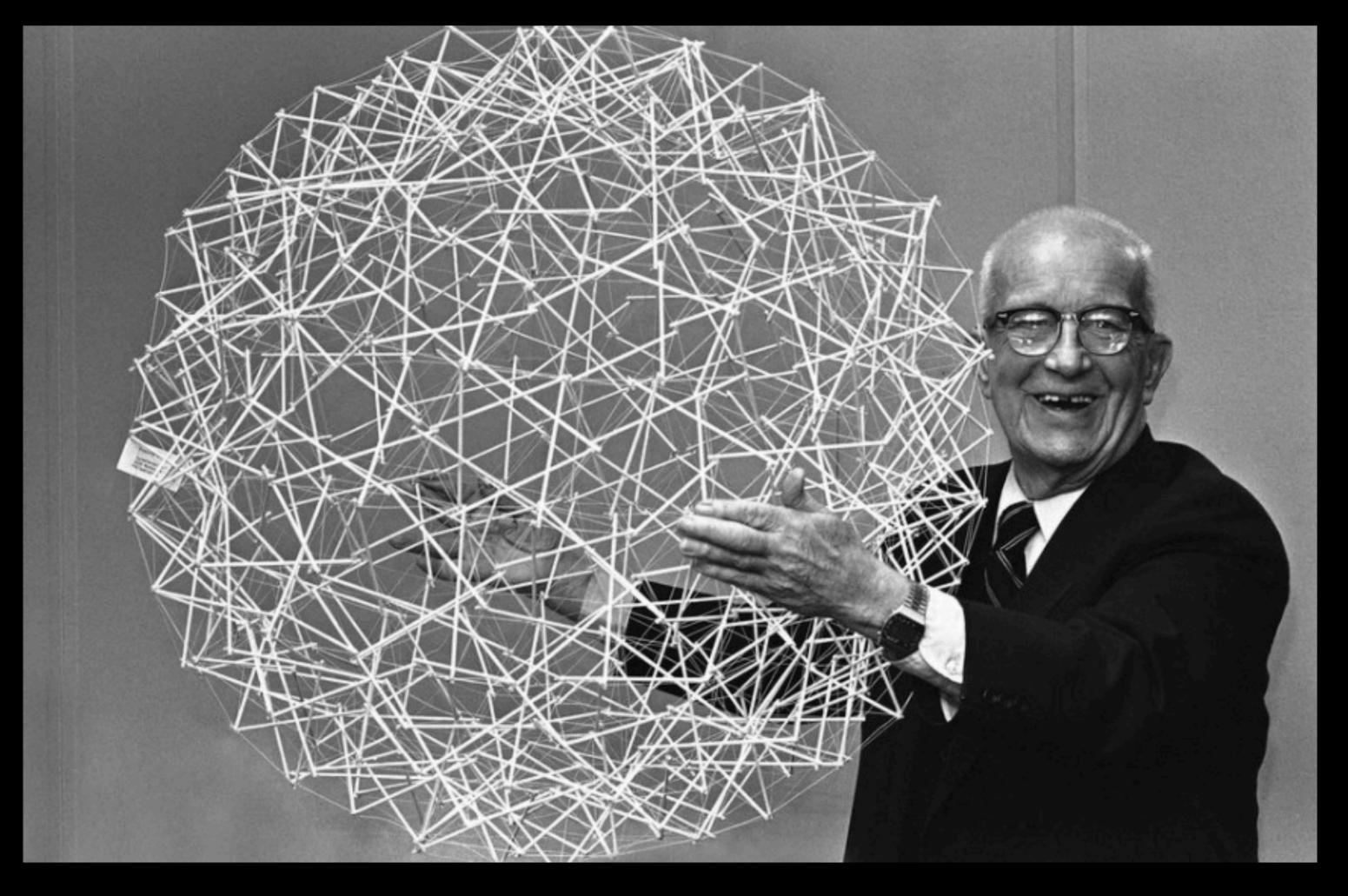


Image: Buckminster Fuller with Model of Tensecrity Sphere, 1979.

#### 1895-1983



#### **Buckminster Fuller - Sketches**

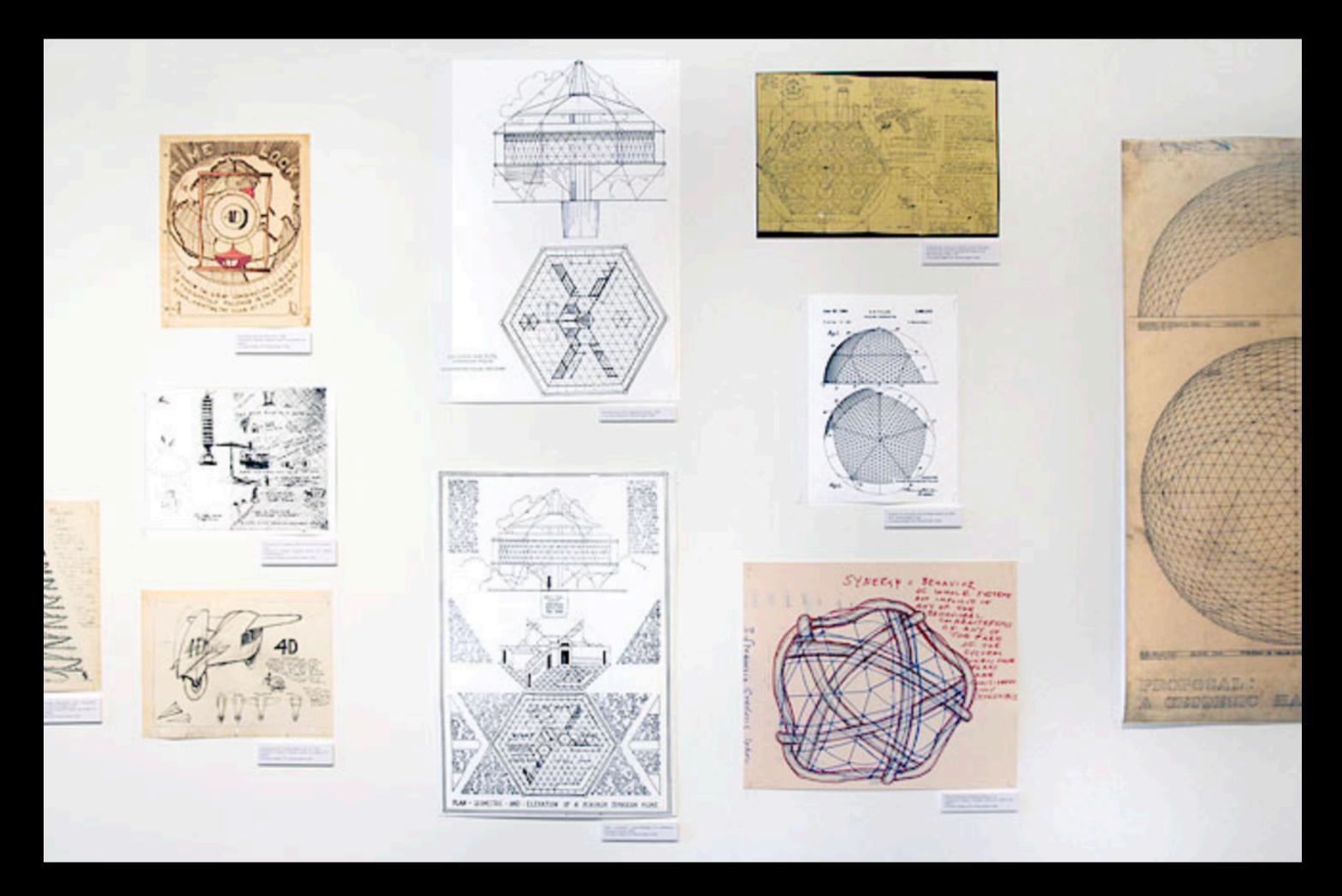
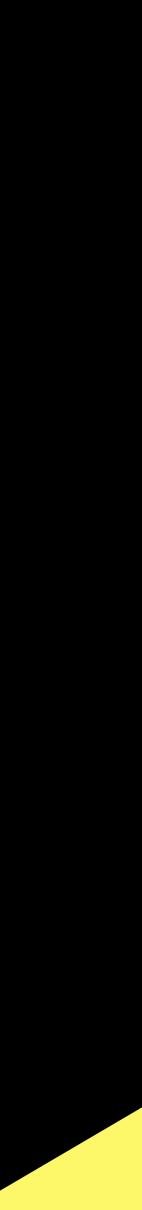


Image: Buckminster Fuller sketches

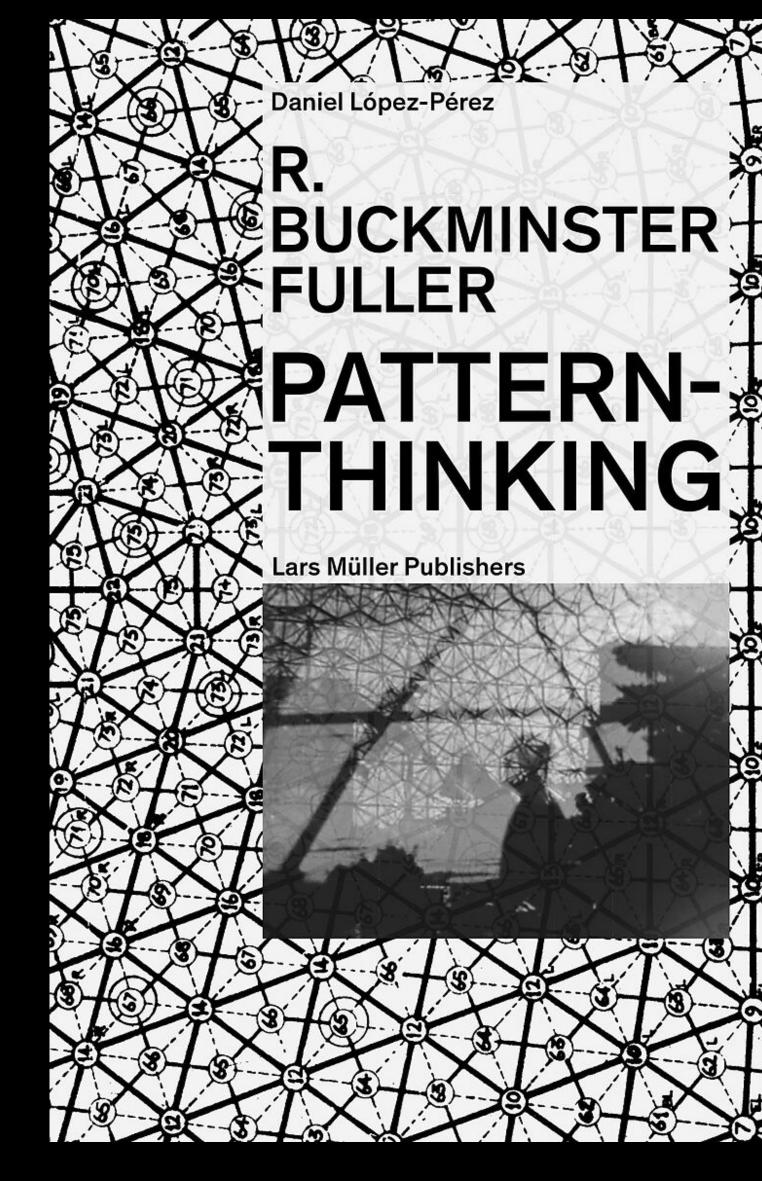


74

#### **Buckminster Fuller - Geodesic Dome**



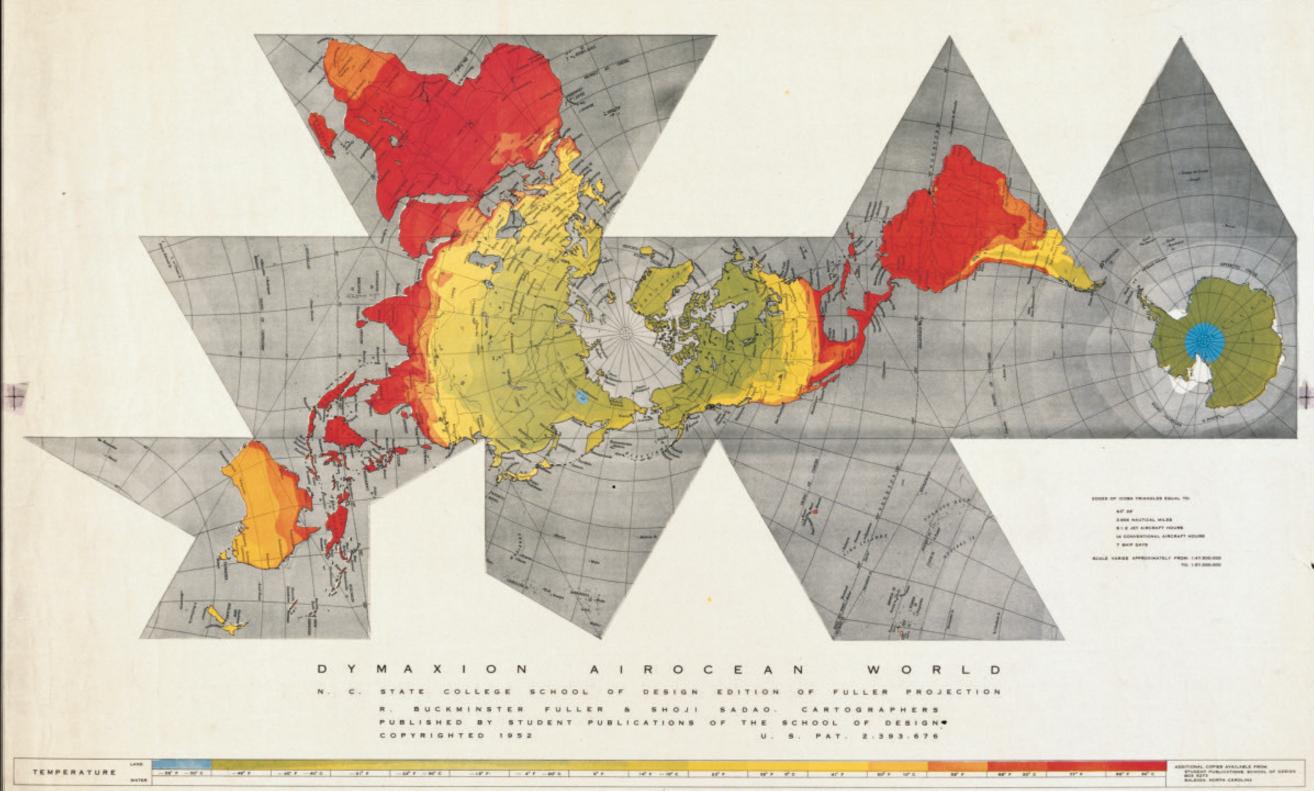
Image: Carl Solway Gallery







#### **Buckminster Fuller - Dymaxion Map**



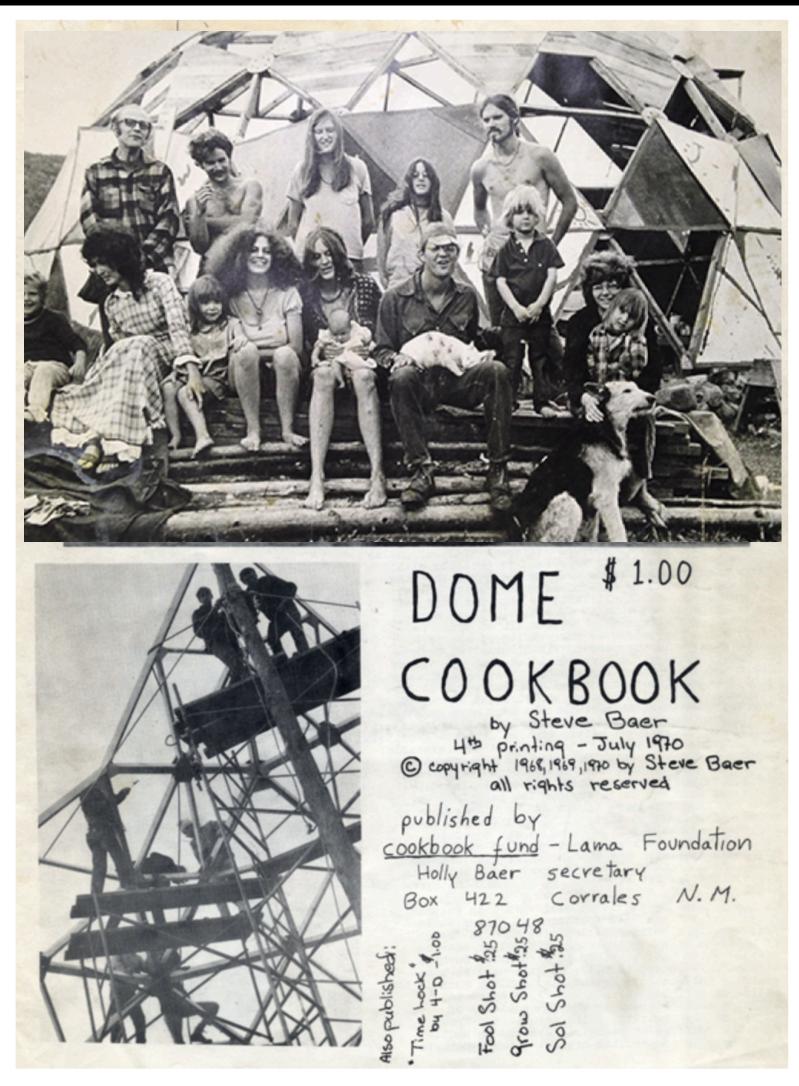
Courtesy Buckminster Fuller Institute



Performer folds Dymaxion Map, Getty Images

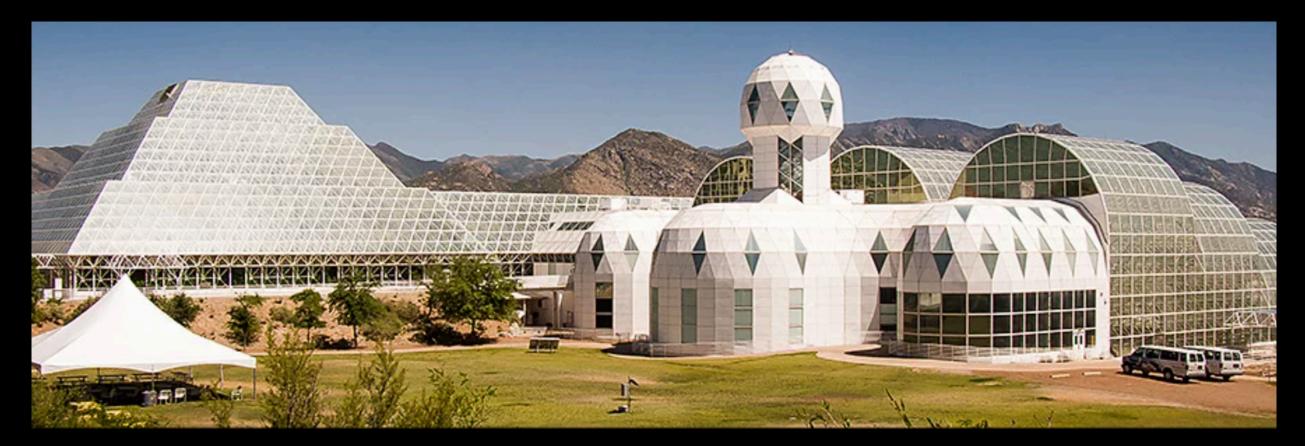


#### **Buckminster Fuller Inspired Design**

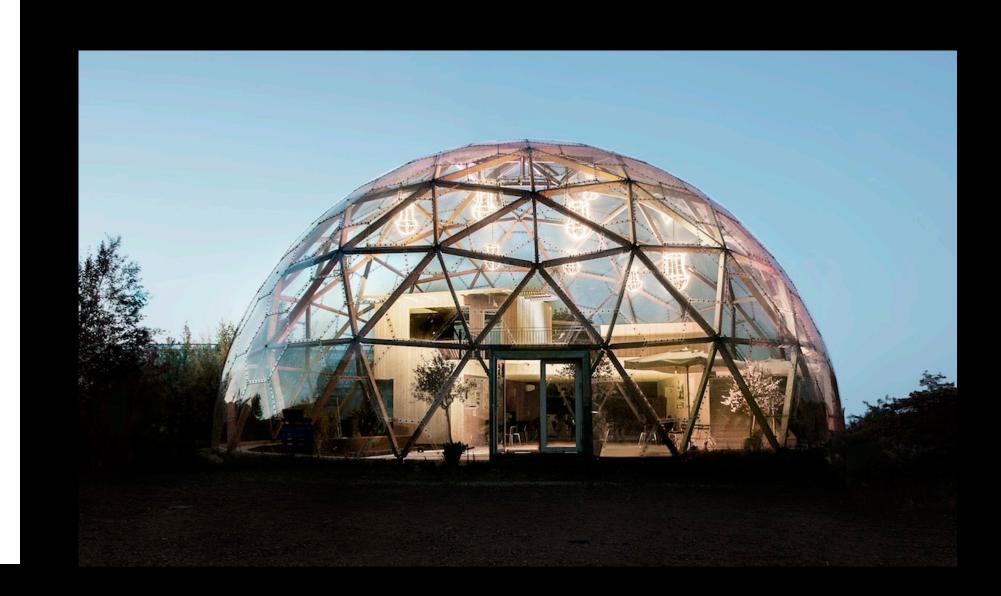




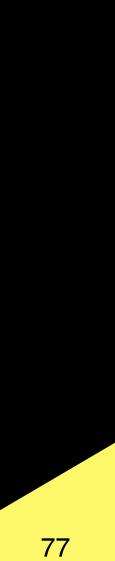
The Dome Cookbook, Steve Baer, 1968.

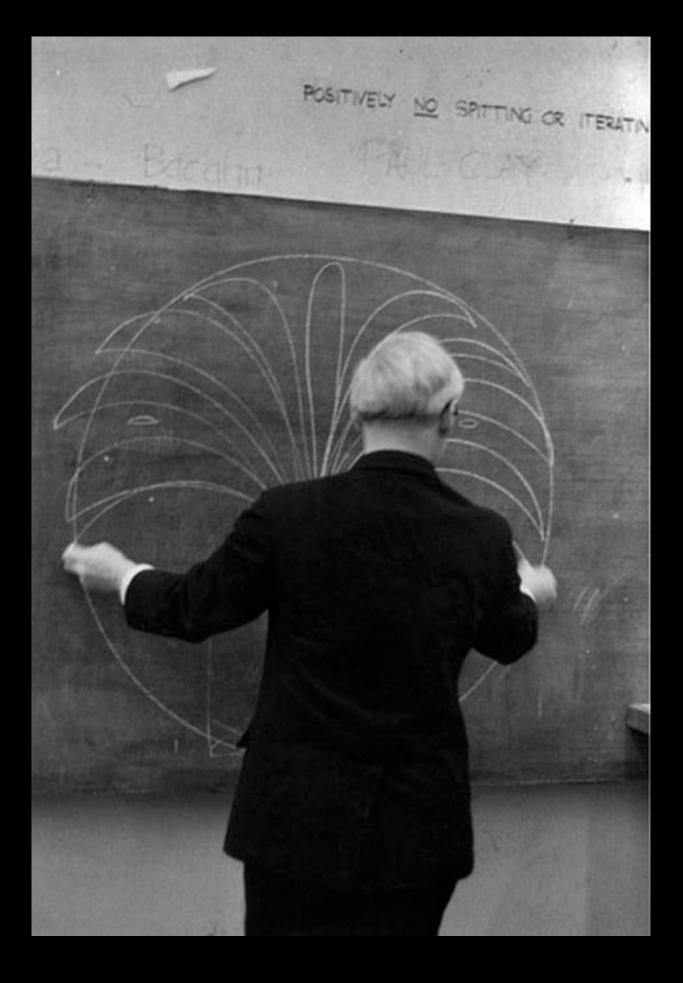


Biosphere II, Arizona, 1999.



Dome of Visions, Copenhagen, Danish architects Kristoffer Tejlgaard and Benny Jepsen, 2013.

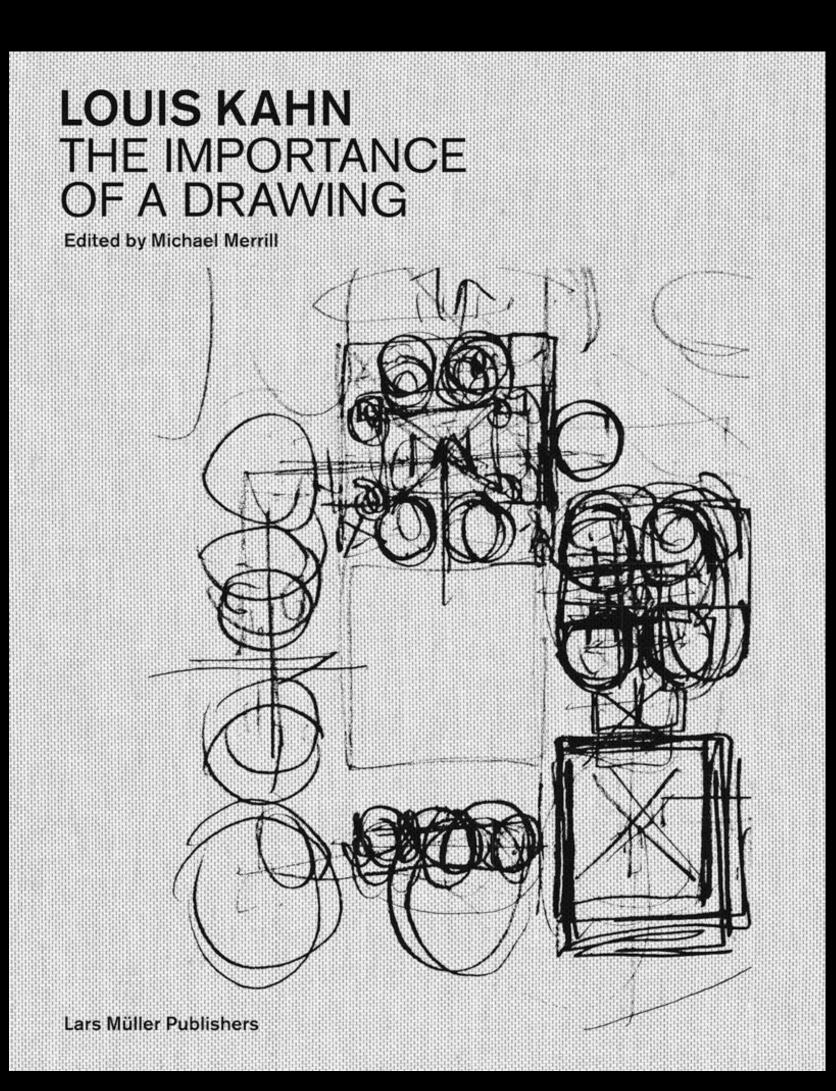




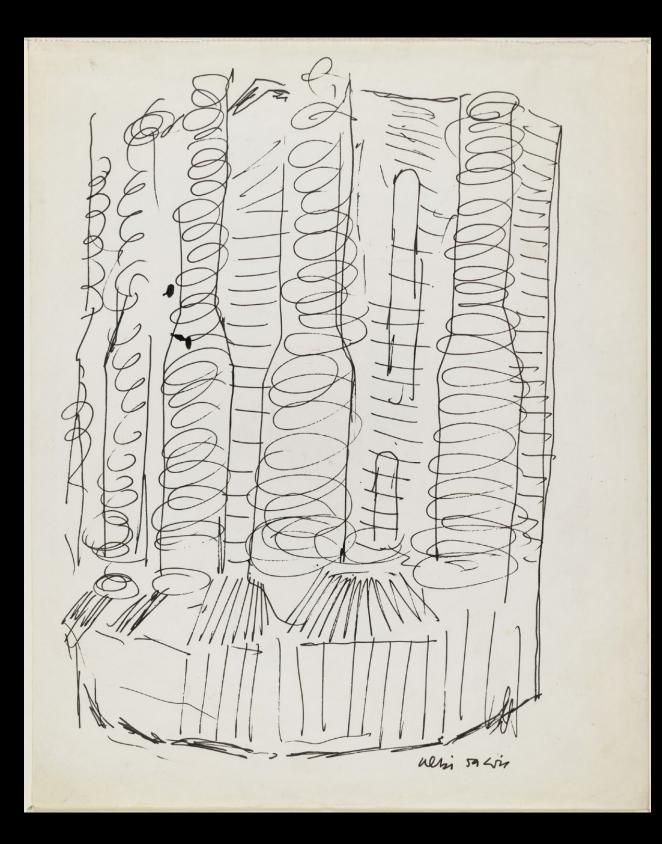


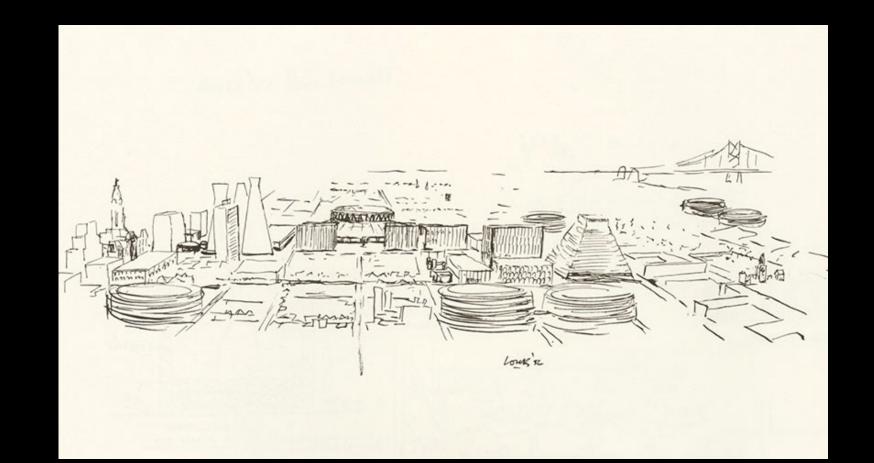






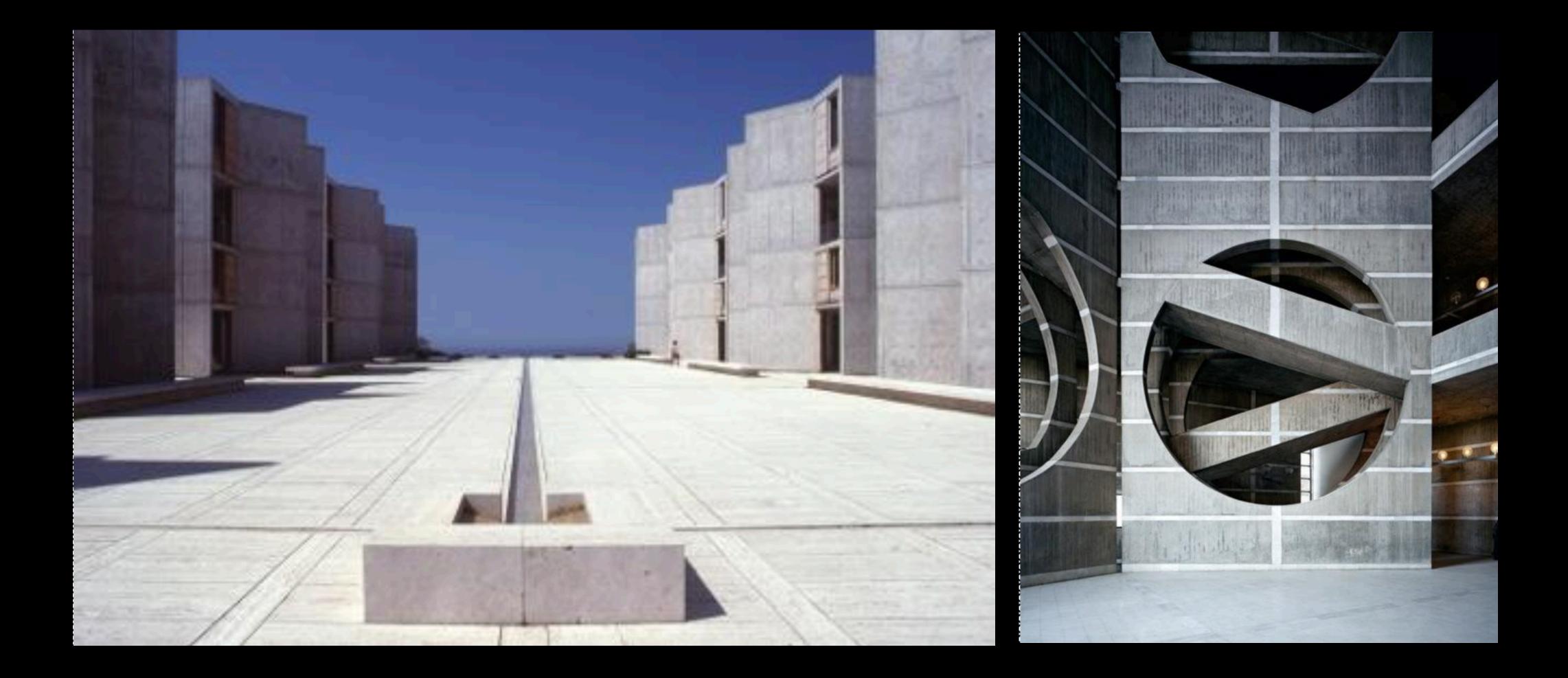






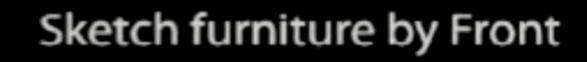








#### Buckminster Fuller as an inspiration for Loop Design



Film by: Front Design, Sketching Furniture, 2007.



#### **Biennal 2021 - Maison Fibre**



IntCDC / ICD University of Stuttgart, Institute for Computational Design and Construction, 2021.





#### **Biennal 2021 - Maison Fibre**

**Maison Fibre** Towards a Novel Material Culture 17th International Architecture Exhibition La Biennale di Venezia 2021

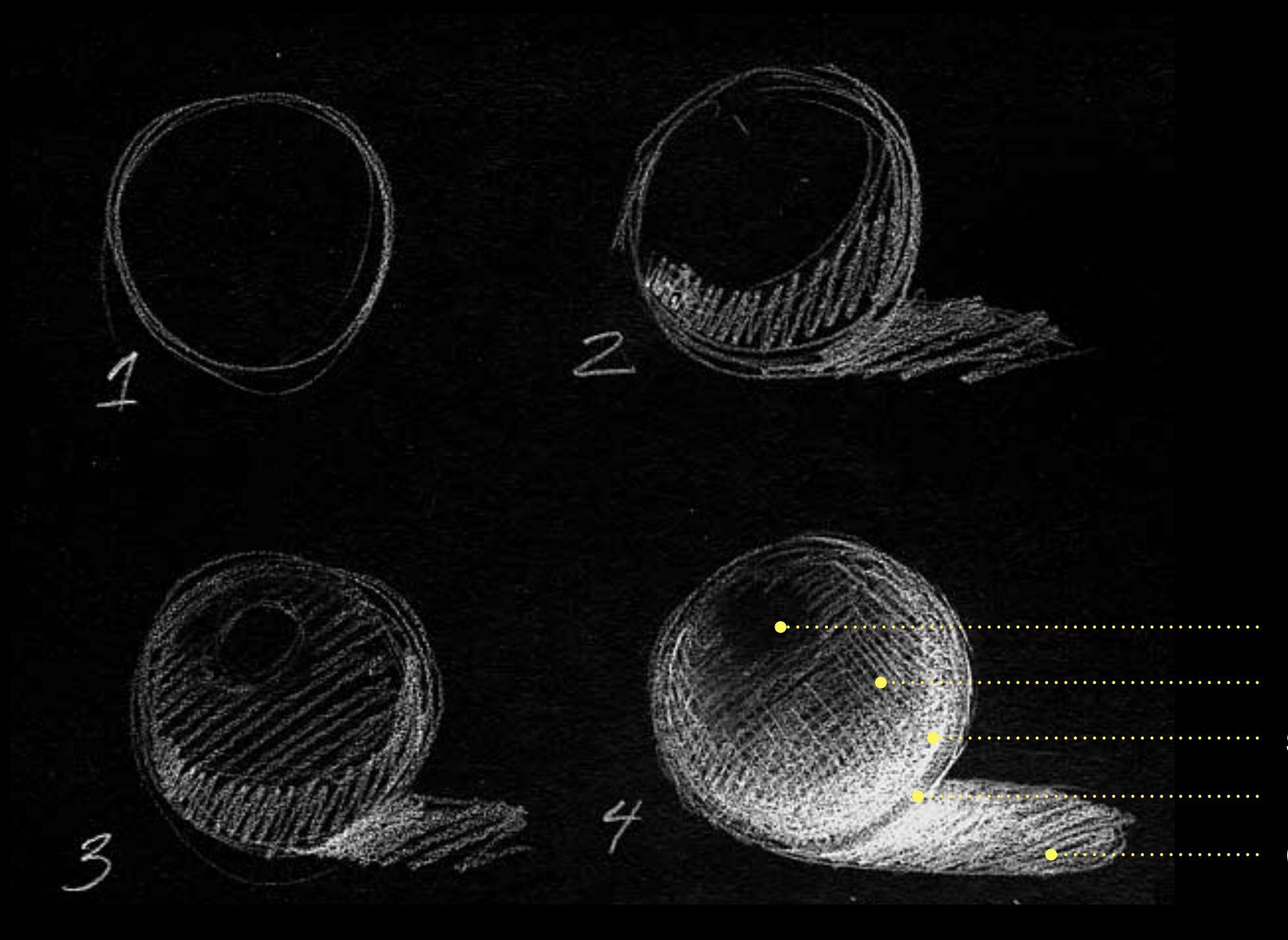
IntCDC / ICD University of Stuttgart, Institute for Computational Design and Construction, 2021.



**Exercise 10** 

### SHADOWS 30 min

## Sketching Form Shading



highlight half tone shadow core reflected light Cast shadow

86

# ORGANIZE A FULL PAPER WITH ALL SKETCHING TECHNIQUES

1 hour

## Thank you

Contact

Rasa Weber | rasa.weber@zhdk.ch



Ζ

Zürcher Hochschule der Künste Bachelor of Arts in Design

