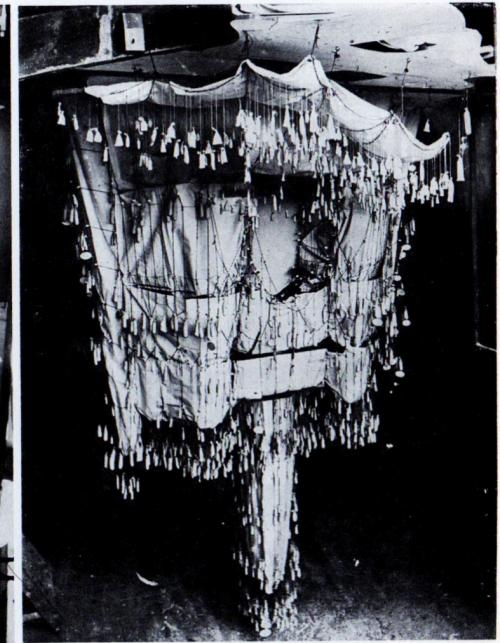
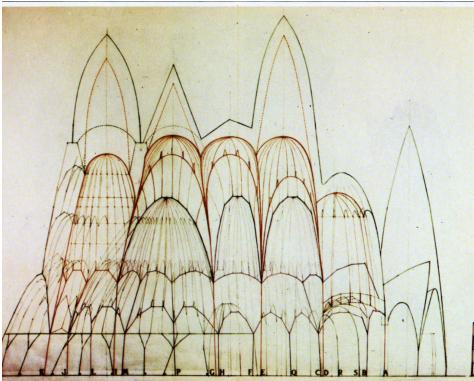
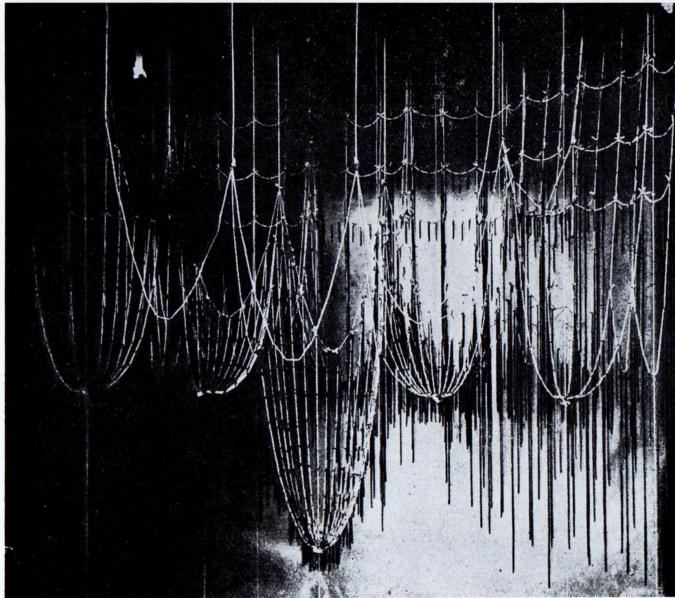


# **COMPUTAÇÃO APLICADA AO PROJETO**



**NATALIE GROETELAARS  
FERNANDO RIBEIRO**

# MODELOS GEOMÉTRICOS TRADICIONAIS



26. Maqueta funicular revestida. / Maqueta funicular revestida. / Draped funicular model.

25. Maqueta funicular revestida amb paper en plà d'estudi. / Maqueta funicular revestida con papel, en plan de estudio. / Funicular model hung with paper, in the course of study.

FONTE: PUIG-BOADA, I.; ARIBAU, A. L'EGLESIA DE LA COLONIA GÜELL. BARCELONA: LUMEN, 1976.

# PRECURSORES DA COMPUTAÇÃO



Máquina de  
Anticítera  
(87 AC)



Wilhelm  
Schickard  
(1592-1635)



Blaise Pascal  
(1623-1662)



Gottfried  
Wilhelm Leibniz  
(1646-1726)

Calculadoras Mecânicas

# PRECURSORES DA COMPUTAÇÃO



Joseph Marie  
Jacquard  
(1752-1834)

Tear mecânico com  
leitura automática  
de cartões



Ada Lovelace  
(1815-1852)



Charles Babbage  
(1792-1871)

Criadores do primeiro computador  
programável

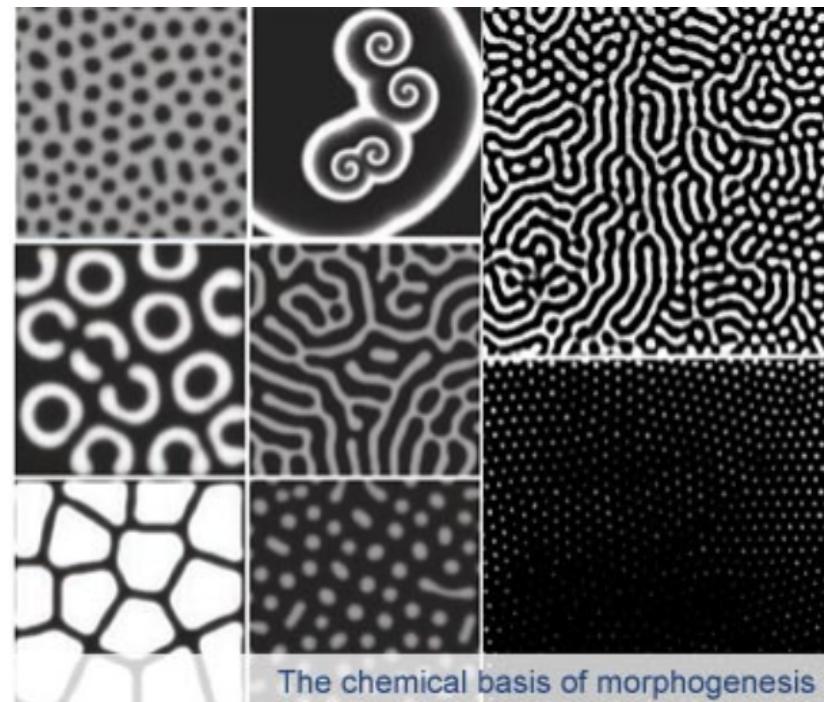
# PADRÕES DE TURING - 1952



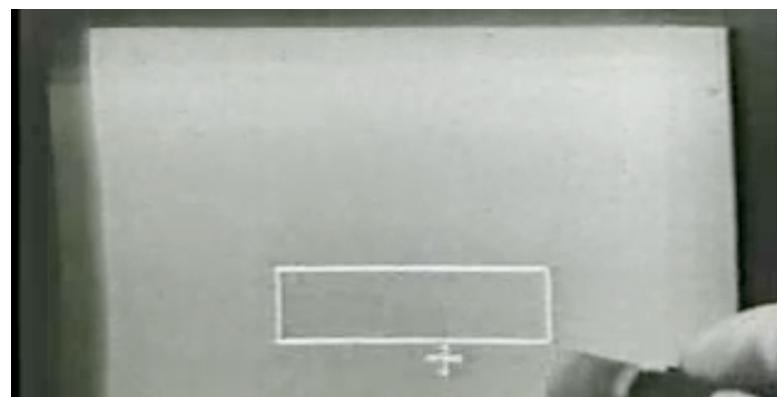
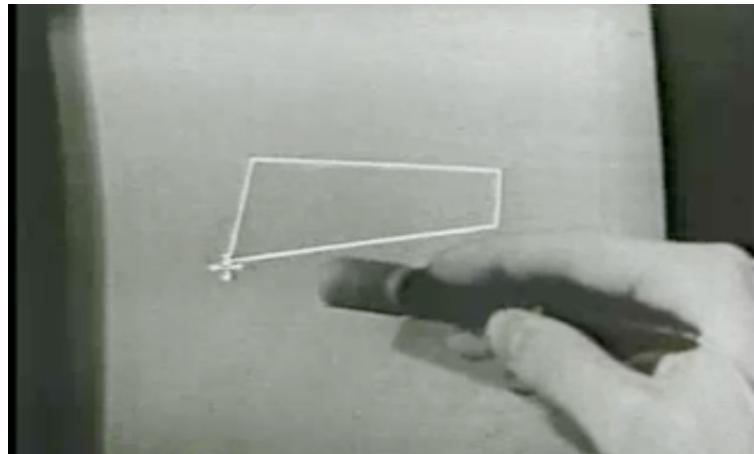
Alan Turing  
1912 - 1954



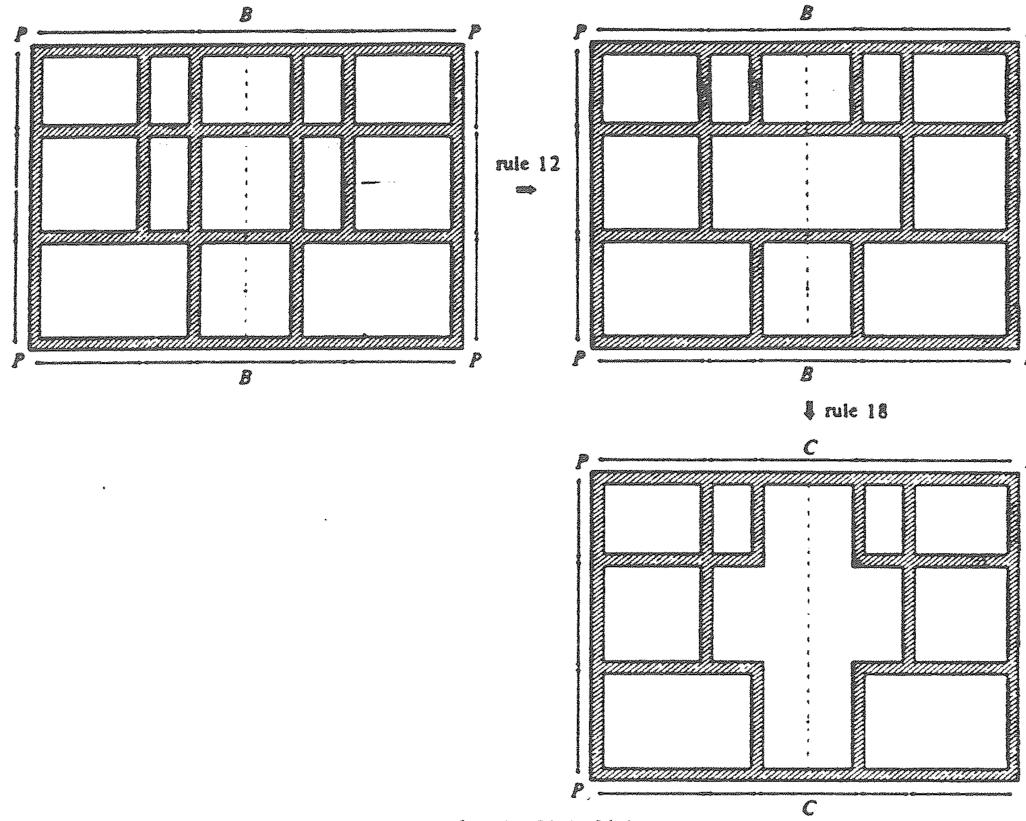
Replica do computador  
Bombe (Alan Turing - 1939)



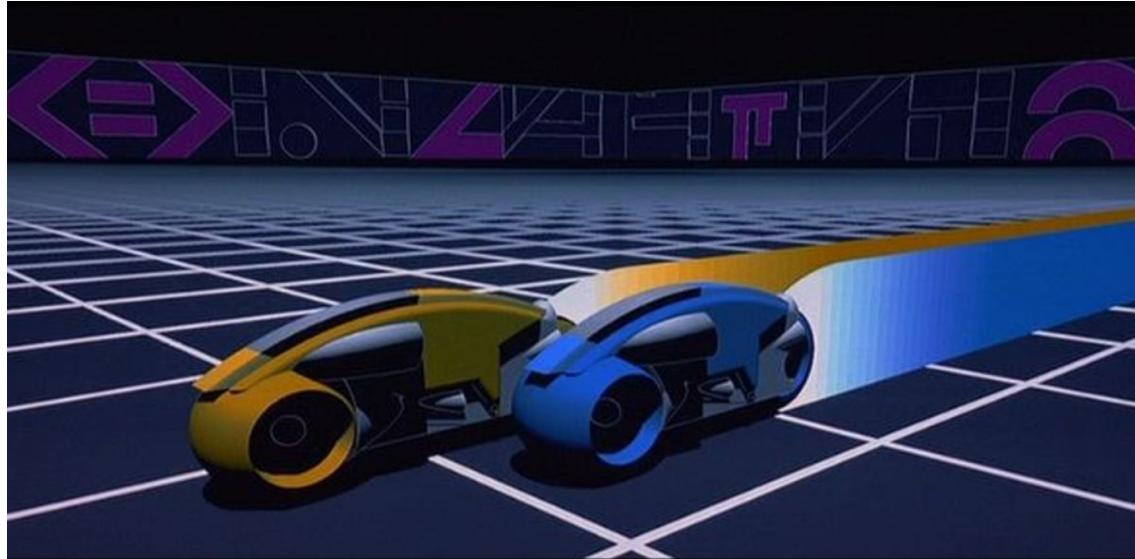
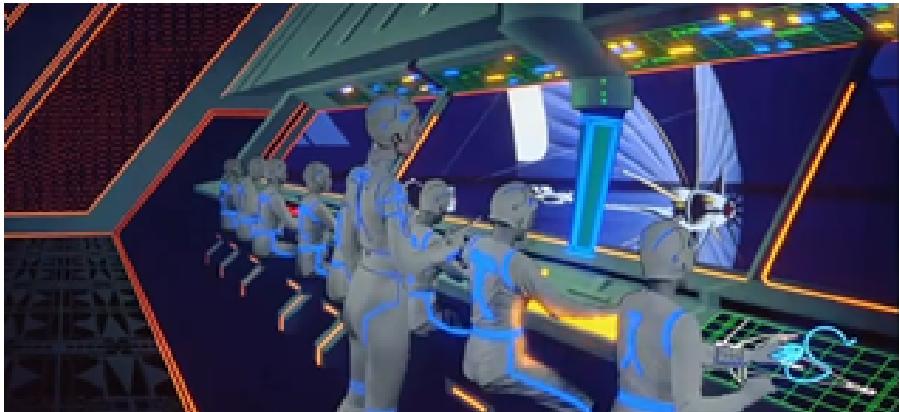
# IVAN SUTHERLAND - SKETCHPAD - 1962



# STINY, MITCHELL - THE PALADIAN GRAMMAR 1978



# TRON 1982



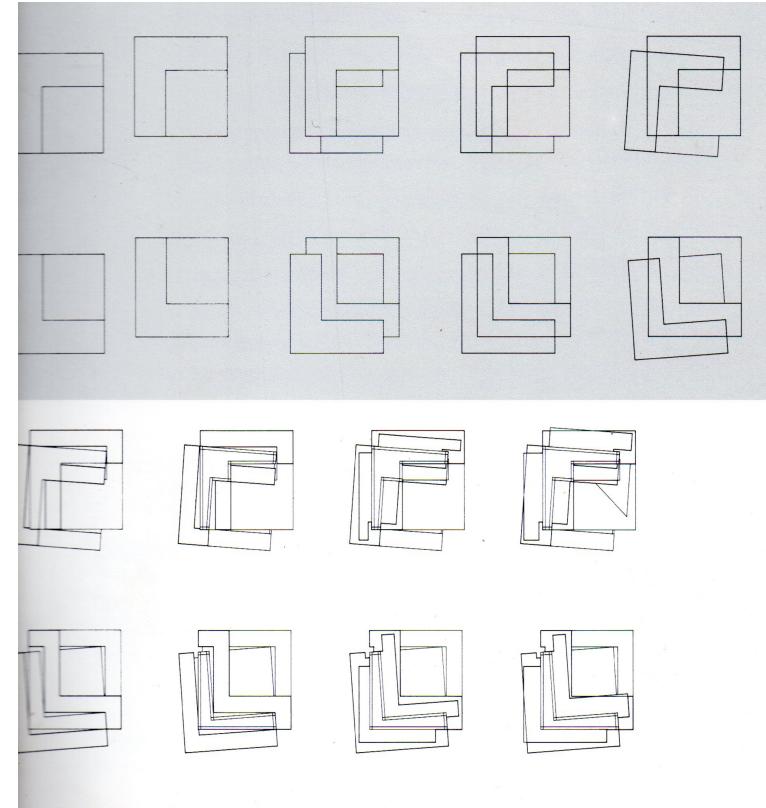
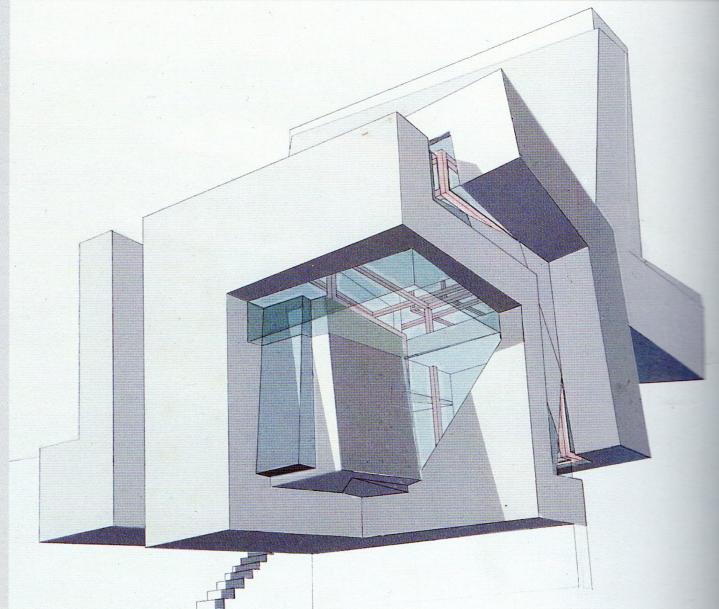
11/03/2020

# RASTER VS VETOR

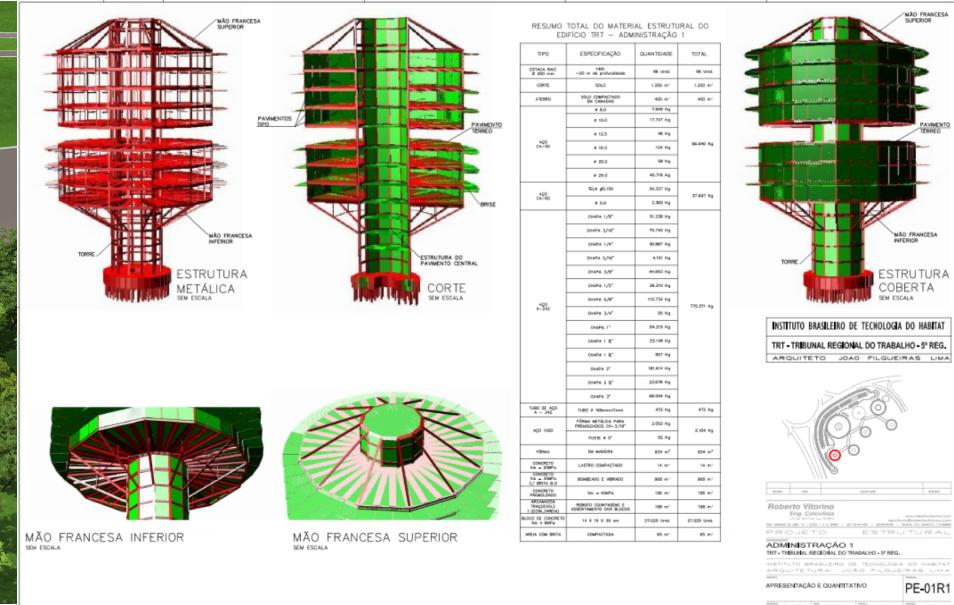


# CASA GUARDIOLA - PETER EISENMAN - 1988

This house can be seen as the manifestation of a receptacle in which traces of logic and irrationality are intrinsic components of the object/place. It exists between the natural and the rational, between logic and chaos; the arabesque. It breaks the notion of figure/frame, because it is figure and frame simultaneously. Its tangential el-shapes penetrate three planes, always interweaving. These fluctuating readings resonate in the material of this house which, unlike a traditional structure of outside and inside, neither contains nor is contained. It is as if it were constructed of a substance which constantly changes shape.

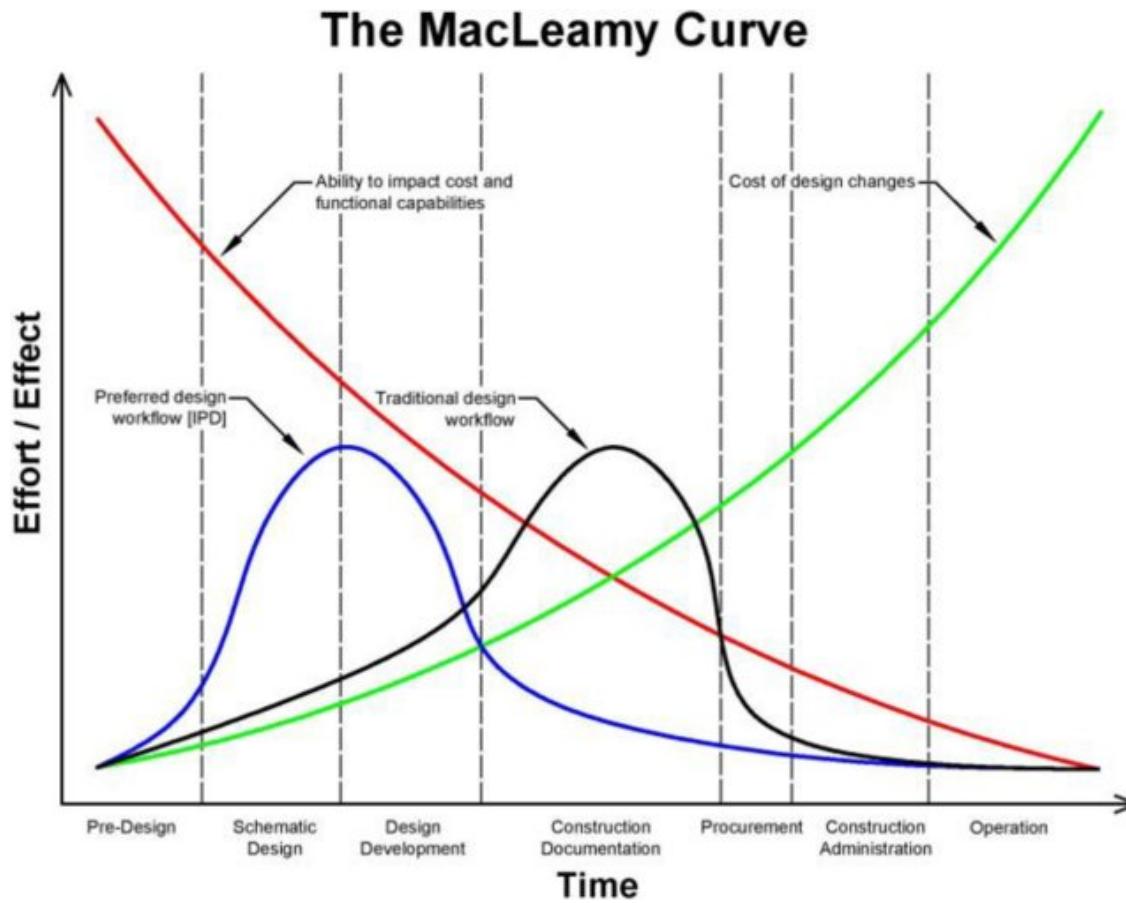


# MODELO GEOMÉTRICO DIGITAL

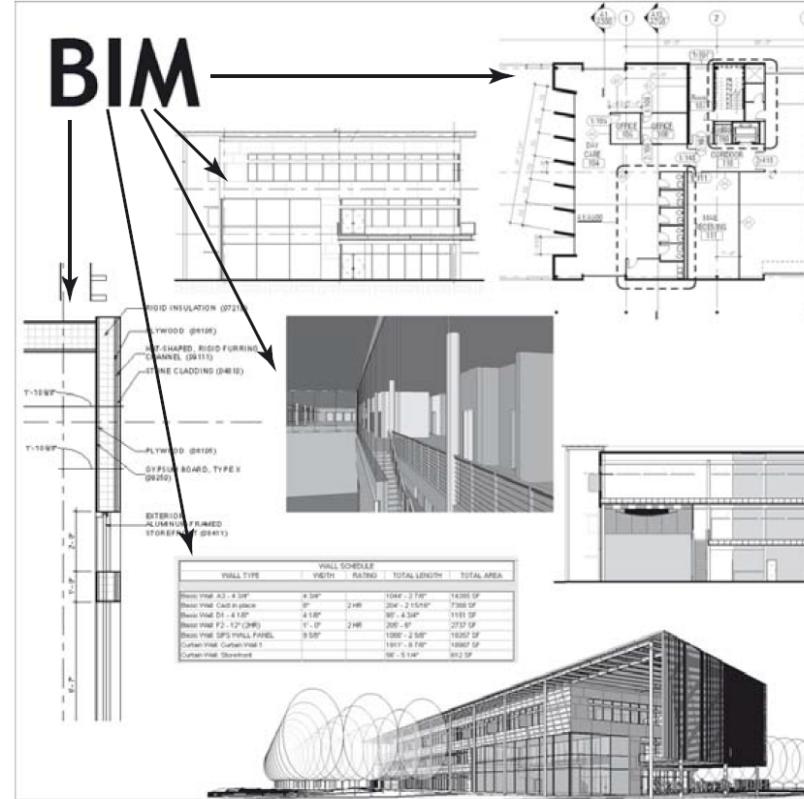
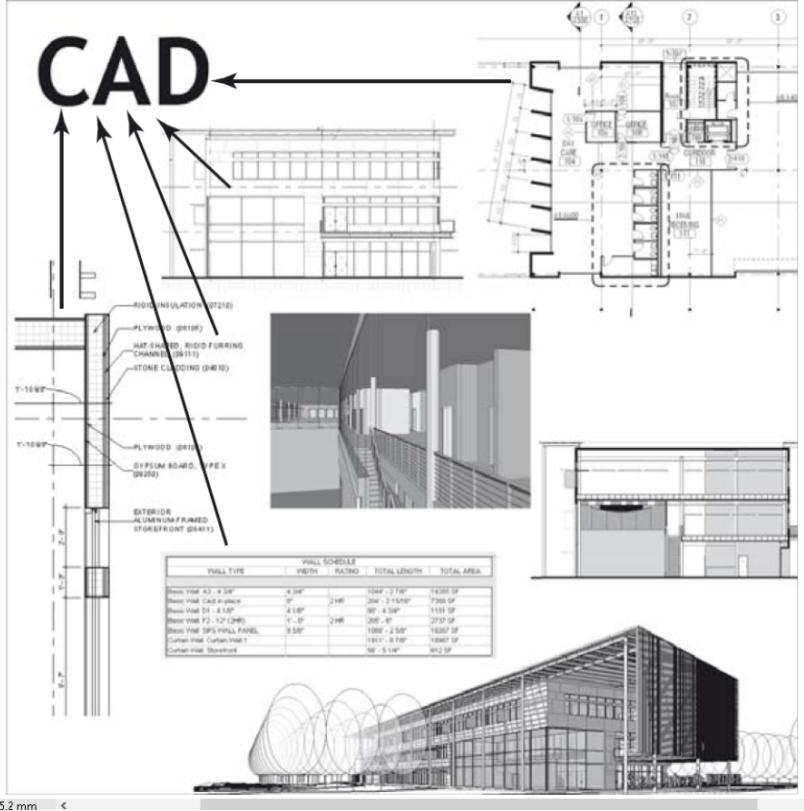


11/03/2020

# CURVA DE MACLEAMY



# CAD X BIM

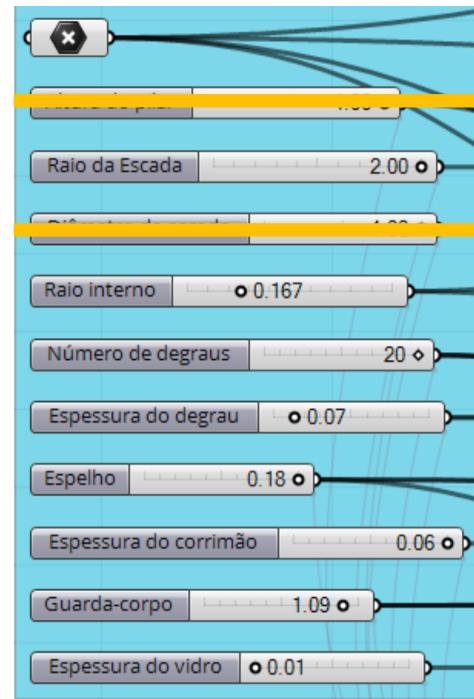


11/03/2020

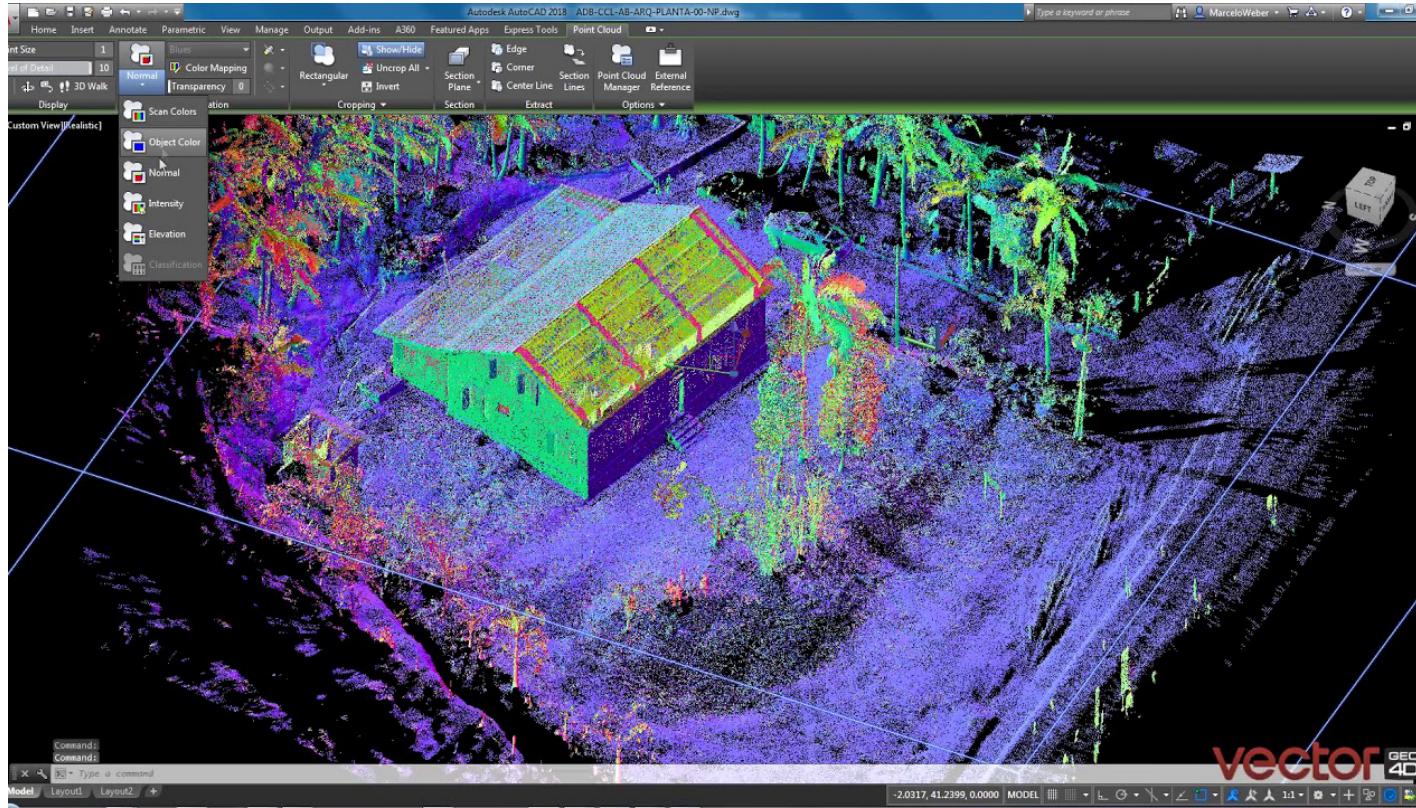
# BIM: DEFINIÇÃO

BIM é um conjunto de políticas, processos e tecnologias que, interagindo, geram uma metodologia para a gestão, em formato digital, do projeto de uma edificação e de seus dados, durante todo seu ciclo de vida. Succar (2009)/Penttilä (2006)

# MODELAGEM PARAMÉTRICA

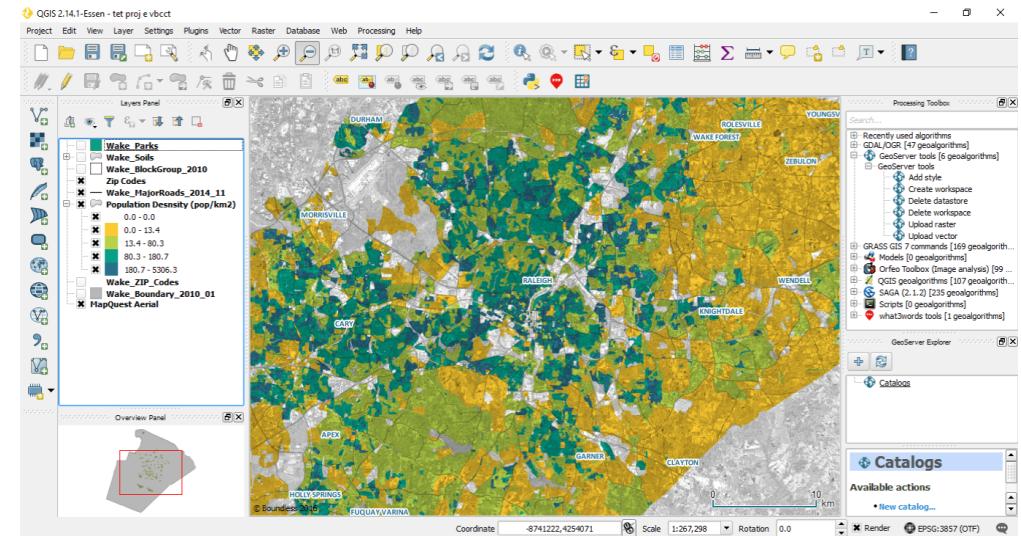


# FOTOGRAFETRIA E NÚVEM DE PONTOS



11/03/2020

# GIS



11/03/2020