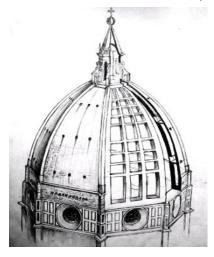


RENAISSANCE- A NEW DAWN: 1400-1600

DUOMO FLORENCE, 1430 AD- BRUNELLESCHI



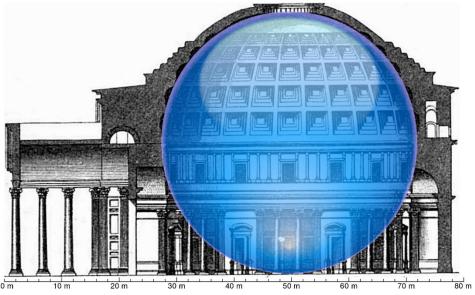


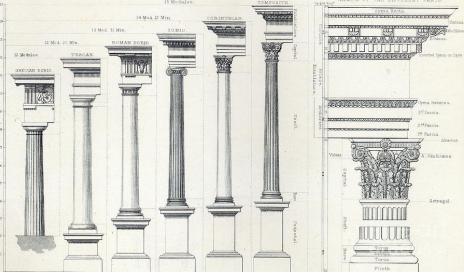


HUMANISM: Renaissance humanists believed that the human body is a microcosm of the universe.

- A period of transition between Middle Ages and Modernity;
- an effort to revive and surpass the ideas and achievements of classical antiquity;
- great social change in art, architecture, politics, literature, exploration and science;
- It began in the Republic of Florence, spread to the rest of Italy and later throughout Europe;
- The Italian term Rinascita ("rebirth") first appeared in Lives of the Artists' (c.1550) by Giorgio Vasari, while the corresponding French word Renaissance was adopted into English as the term for this period during the 1830s

PANTHEON, ROME. 27 BC





Ref-:

- .. Canon of the Five Orders of Architecture- Vignola
- Classical Language of Architecture- John Summerson

VITRUVIUS(80 BC-15 BC) — De Architectura.

FILIPPO BRUNELLESCHI(1377-1446)- Duomo Florence

LEON ALBERTI(1404-1472) - Della Pittura, De statua, De re Aedificatoria;

BRAMANTE(1444-1514)- Tempietto

ALVISE CORONARO(1464-1566)- Trattato dell'architettura

GIOVANNI FALCONETTO (1468-1535)

MICHELANGELO(1475-1564) - David / Laurentian Library / St. Peter's

SEBASTIAN SERLIO(1475-1554) - Tutte l'opere d'architettura et prospetiva

BALDASSARE PERUZZI(1481-1536)

RAPHAEL(1483-1520)

SANGALLO THE YOUNGER(1484-1546)

GIULIO ROMANO(1499-1546)

VIGNOLA(1507-1573)'- Canon of the Five Orders of Architecture

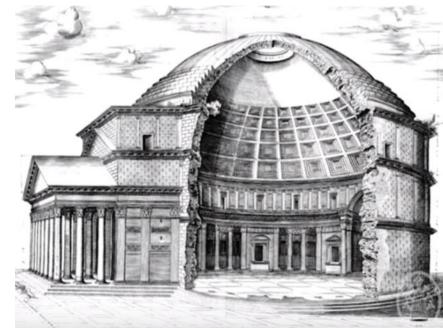
SAN MICHELLI(1484-1559)

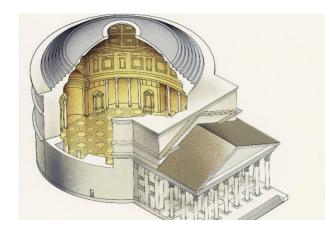
JACOPO SANSOVINO(1486-1570)

 $ANDREAS\ PALLADIO (1508-1580) \hbox{--- I quattro libri dell'architettura}$

VINCENZO SCAMOZZI(1548-1616) - L'idea dell'architettura universale

GIORGIO VASARI(1511-1574)- Le Vite de' più eccellenti pittori, scultori, ed architettori

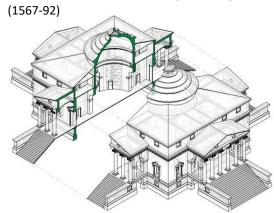




PANTHEON, ROME. 27 BC(126 BC)



VILLA MADAMA - RAPHAEL, ROME, (1518-30)

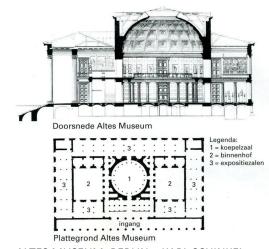


VILLA LA ROTONDA - PALLADIO, VICENZA,

Neau Staatsgalerie, Stuttgurt, Germany- James Stirling (1979–84)



Palace of Assembly(Chandigarh)-Le Corbusier (1952–61)

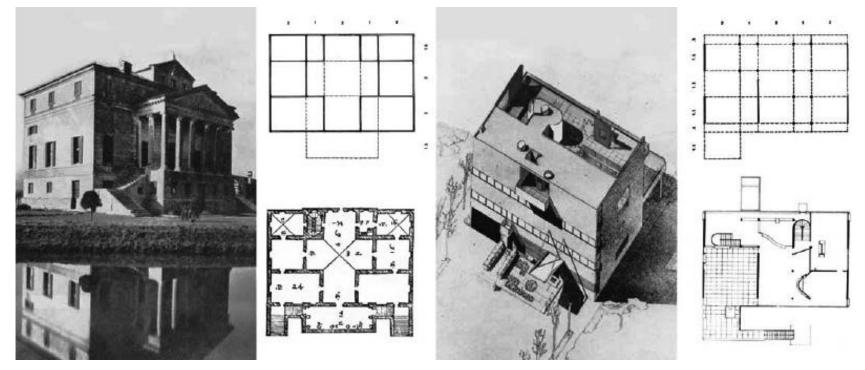


ALTES MUSEUM, BERLIN – KARL SCHINKEL (1825-30)

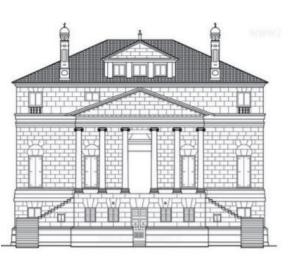
Ref-:

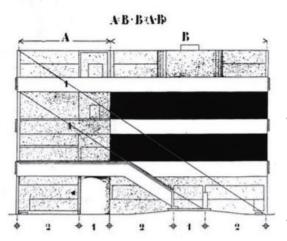
- 1. Paper Palaces: The Rise of the Renaissance Architectural Treatise Vaughan Hart
- 2. Palladio's Rome A Translation of Andrea Palladio's Two Guidebooks to Rome- Vaughan Hart

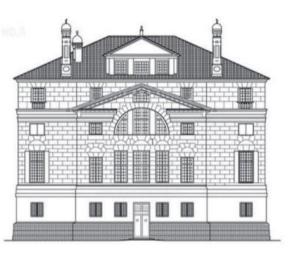
PALLADIO: LE CORBUSIER **VILLA FOSCARI: VILLA STEIN**

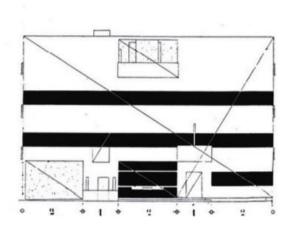


- 8 x 5.5 x 5. / ALT. DOUBLE-SINGLE BAYS. / COMPARABLE TRIPARTITE DISTRIBUTION OF SUPPORT GRID / 1.5 GRID FOR THE EXTRUDED TERRACE OR PORTICO;
- AREA OF INTEREST EITHER CONCENTRATED OR DISPERSED;
- DESIGN PROGRAMME DECIDES THE STRUCTURE FOR PALLADIO, WHEREAS IN CASE OF LE CORBUSIER, THE STRUCTURE INFLUENCES THE PROGRAMME;
- LE CORBUSIER'S CONCEPT OF FREE-FLOWING HORIZONTAL SPACE COMES TO A SUDDEN HALT WHEN JUXTAPOSED AGAINST RIGID OUTER WALLS. INORDER TO CREATE A CONFLICT, CORBUSIER THEN CREATES ROOF-GARDENS, CUT-OUTS, TERRACE ETC, AND THUS CONFRONTING AN EXPLOSIVE SITUATION WITH AN IMPLOSIVE ONE.
 - Ref -: 1. The Mathematics of the Ideal Villa and Other Essays- Prof. Colin Rowe
 - 2. I quattro libri dell'architettura (The Four Books of Architecture) Andreas Palladio

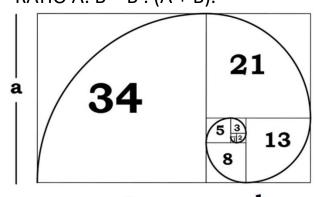


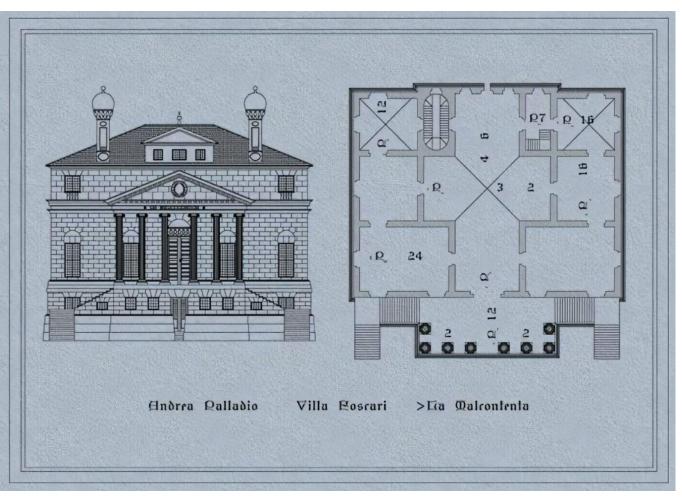






- LE CORBUSIER'S FACADES ARE
 THE PRIMARY DEMONSTRATION
 OF THE VIRTUES OF
 MATHEMATICS, USING GOLDEN
 RATIOS.
- PERCEPTUAL FAÇADE, WHICH IS FREED UP THANKS TO THE ADOPTED STRUCTURAL SYSTEM.
- LE CORBUSIER ALWAYS
 CAREFULLY WORKED OUT THE
 CALCULATIONS BY A SYSTEM OF
 REGULATING LINES & FIGURES &
 BY PLACING ON THE DRAWINGS
 OF HIS ELEVATIONS, THE GOLDEN
 RATIO A: B = B: (A + B).



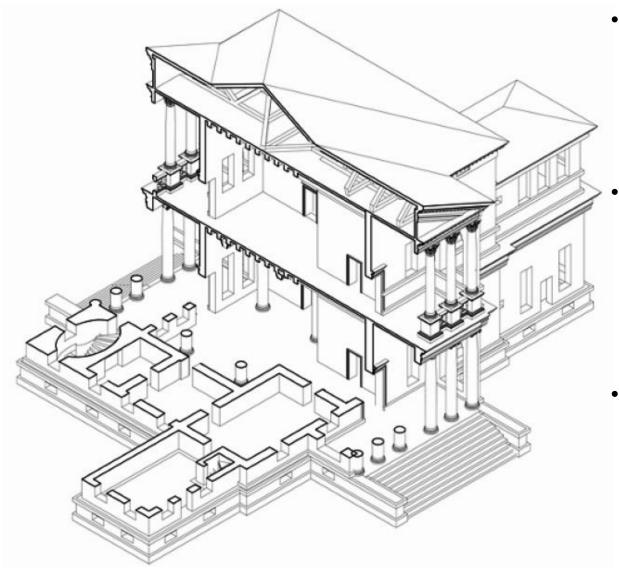


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- FOR PALLADIO, THE ULTIMATE PROOF OF HIS THEORY LIES IN THE PLAN.
- HIS CALCULATION OF DESIGN IS BASED ON THE PLAN.
- PALLADIO CONTROLLED HIS PLAN BY THE CENTRAL AXIS AND HIS DESIGN PROGRAM LAID OUT SYMMETRICALLY ON EITHER SIDE.

Ref-: 1. The Mathematics of the Ideal Villa and Other Essays- Prof. Colin Rowe

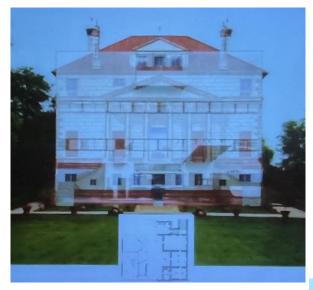
2. I quattro libri dell'architettura (The Four Books of Architecture) – Andreas Palladio



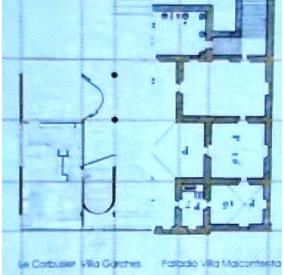
Courtesy: Villa Cornaro, Piombino Dese- Prof. Branco Mitrovic

- PALLADIO'S SYSTEM OF PROPORTIONING WAS PRIMARILY BASED ON THE ORDER HE USED, IN THIS CASE THE IONIC ORDER.
- THE CONFLICT BETWEEN THE DEMANDS OF THE ORDER & A SERIES OF 'NATURAL' RELATIONSHIPS IS HOW THE FAÇADE OF MALCONTENTA IS DERIVED FROM.
- THIS SOMETIMES LED TO
 PALLADIO WILFULLY TWEAKING
 HIS DIMENSIONS TO SUIT THE
 PROGRAM. THUS THE
 COMPLEXITIES OF SECTION &
 SUBTLETIES OF ELEVATION
 WERE VERY SKILFULLY
 TRANSPOSED TO THE PLAN.

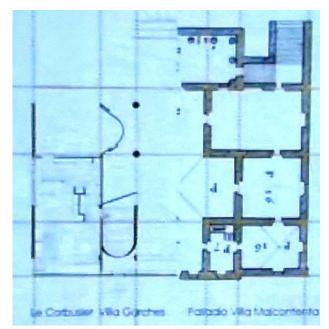
Ref-: Learning from Palladio - Branco Mitrovic







ELEVATIONS READ THROUGH FRONT TO BACK AND VICE-VERSA.

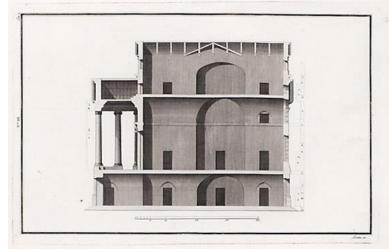


PALLADIO-: PARALYZED PLAN & FREE SECTION

LE CORBUSIER-: FREE PLAN & PARALYZED SECTION.

THE ARCH, VAULT, THE PYRAMID, THE PITCHED ROOF ARE AMONG THE PREROGATIVES OF SOLID-WALL CONSTRUCTION, THANKS TO THE 'PARALYZED', TRADITIONAL PLAN.

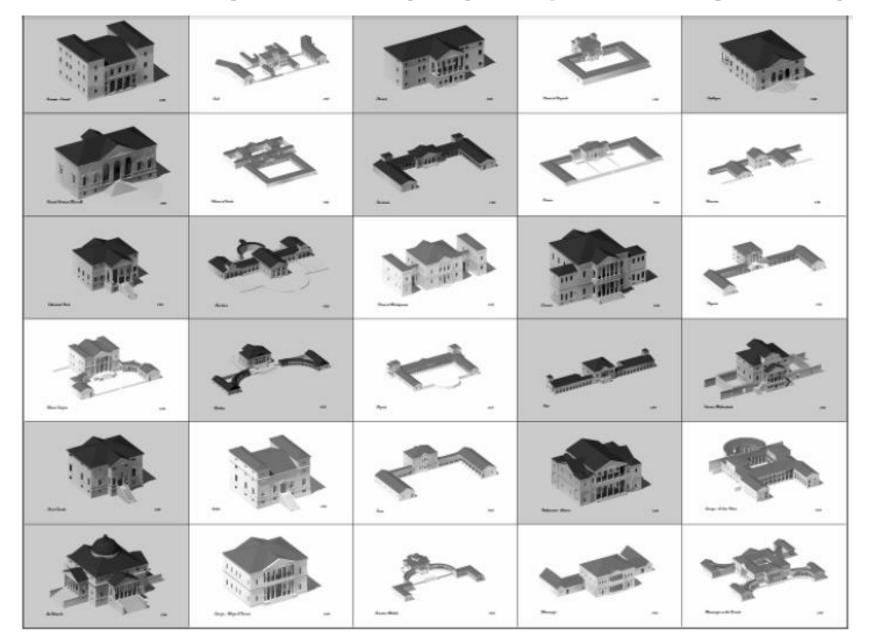




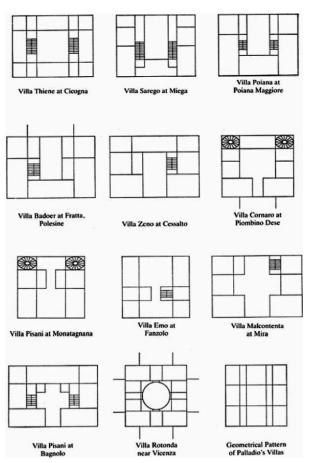
DESPITE THE FREE PLAN, IT WAS NEVER EASY TO VISUALIZE THE INTERIOR SPATIAL ORGANISATION OF VILLA STEIN, UNLIKE IN MALCONTENTA, WHERE ONE COULD CONCEIVE THE ENTIRE BUILDING WHILE STANDING AT THE CRUCIFORM HALL.

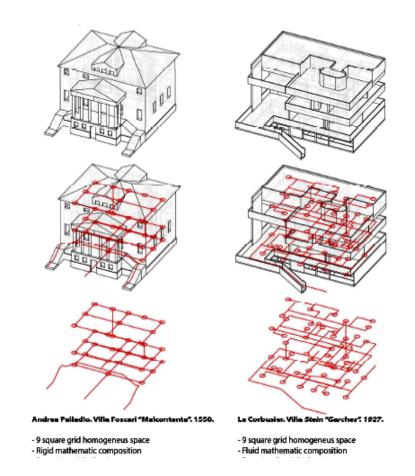
Ref-: The Mathematics of the Ideal Villa and Other Essays- Prof. Colin Rowe

PALLADIO VILLAS: 3D CAD MODELS



PALLADIO : LE CORBUSIER 9 SQUARE GRID





ACCORDING TO RUDOLF WITTKOWER, ANDREA PALLADIO HAD DEVELOPED A GENERATIVE PROJECT SYSTEM THAT ALLOWED HIM TO DESIGN HIS VILLAS AROUND 9 SQUARES.

Ref-:

- Architectural Principles in the Age of Humanism Rudolph Wittkower;
- Palladio James Ackerman;

PALLADIO VILLAS: CAD PLANS

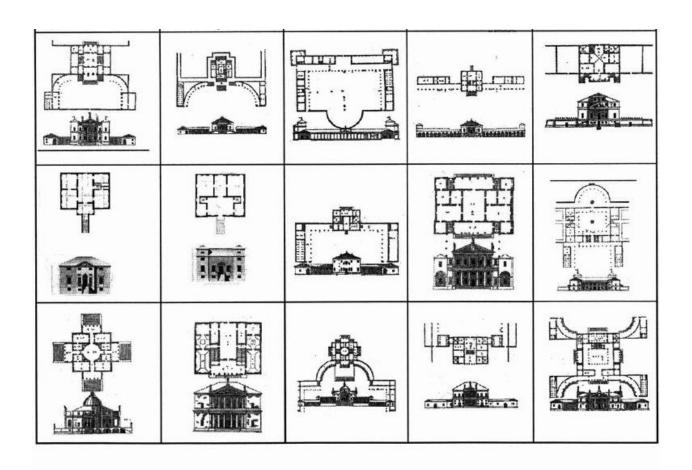


Fig. 2.7 Palladio's original drawings

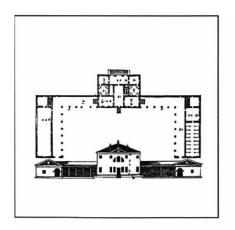


Fig. 2.3 Villa Zeno floor plan

Fig. 2.4 Villa Zeno half plan diagram

DECONSTRUCTION OF A PALLADIO VILLA

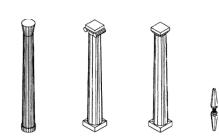
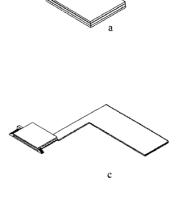
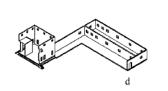
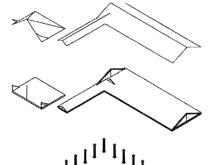


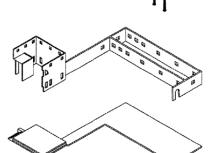
Fig. 2.1 Three column types and a balustrade

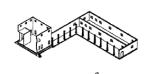


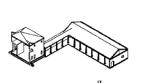




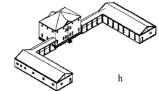






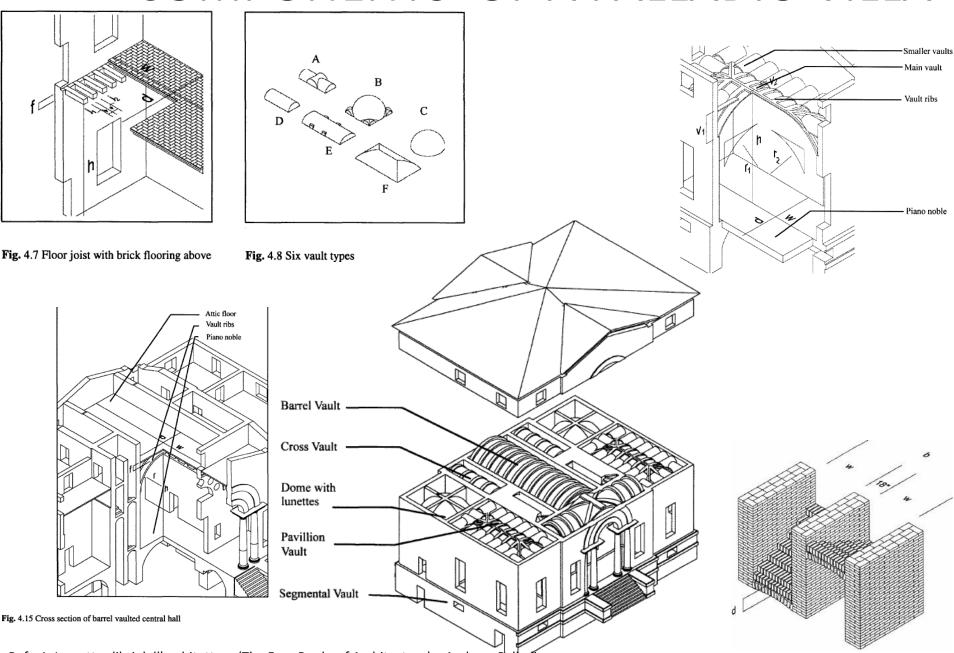






Ref-: 1. L quattro libri dell'architettura (The Four Books of Architecture) – Andreas Palladio

COMPONENTS OF A PALLADIO VILLA



Ref-: 1. L quattro libri dell'architettura (The Four Books of Architecture) – Andreas Palladio



Battista Franco and <u>Giambattista</u> <u>Zelotti</u>







Alessandro and <u>Giovanni Battista Maganza</u> and Anselmo Canera were commissioned to paint frescoes in the principal salons.