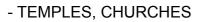
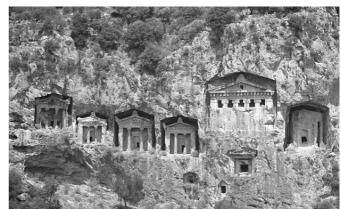
Sacred facilities

- TOMBS, MAUSOLEUMS





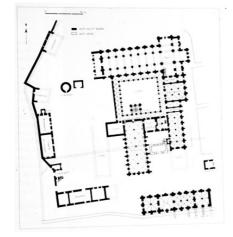








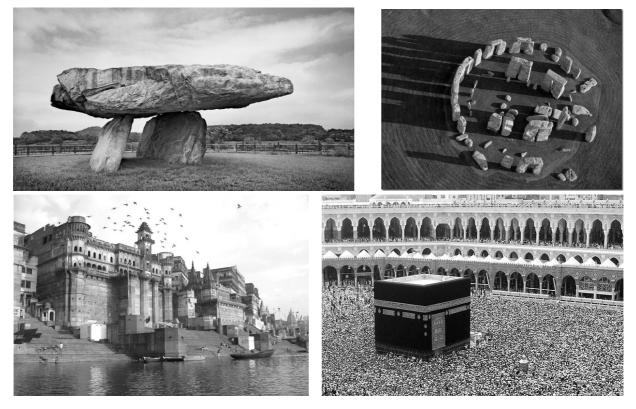
- MONASTERIES



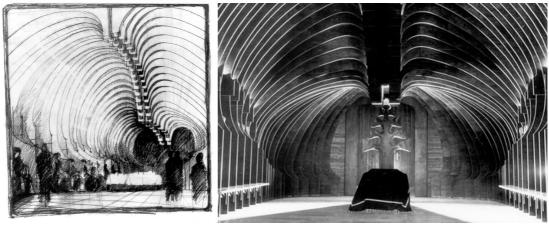


Zoltan Schrammel DLA

- CULTIC SPACES



- MORTUARIES, CREMATORIA



- CEMETERIES



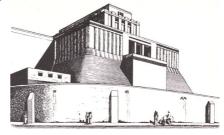


History

Prehistorical temples

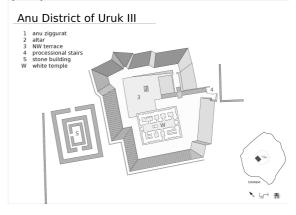
First temple of Eridu (Sumer) 5000-3000 BC) (reconstruction)

- Main features:
 - majestic mass above people (clay plinth, sacrosanct function)
 - minimal space only for numbers and the ritual



White Temple at Uruk (sumer) 5000-3000 BC Main features:

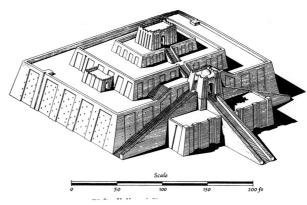
- majestic mass above people (clay plinth, sacrosanct function)
- minimal space only for numbers and the ritual
- assembly stays on the terrace



Ziggurat at Ur (Mesopotamia) 2500 BC

Main features:

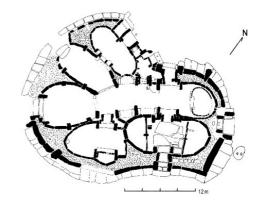
- part of a temple complex
 - ziggurat terraced pyramid
- decorated
- connected to burials
- assembly stays down



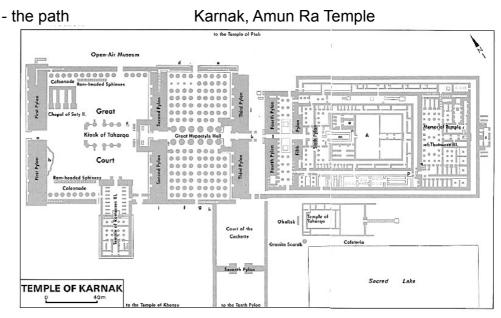
Malta, Hagar Quim 3600 BC

Main features:

- connected to astronomical experiences
- non-geometrical forms
- developed in phases



Ancient Egypt



- temple complexes

Del el Bahri, Temple of Hatsepsut



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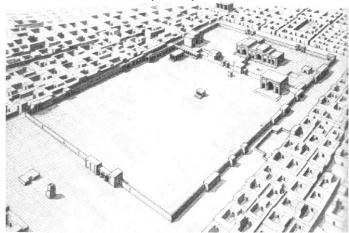
Persia

before Islam (7th C) Zoroastrianism is the religion of the area - temple gardens

Fire temple, Naghsh-é Rostam Achaemenian times (559–330 BC.)



Temple garden, Samas temple, Hatra Parthian times (2nd C)

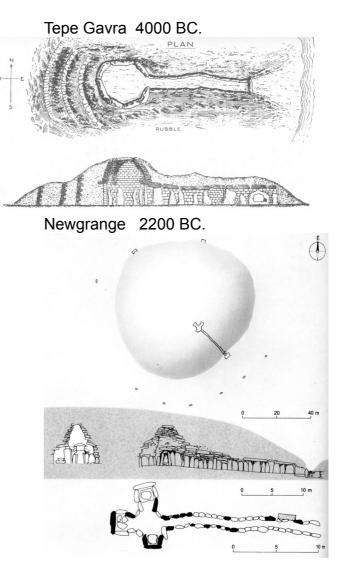


South America Peru, pre-columbian cultures - pyramides and sacred districts

El Paraiso, 2000 BC



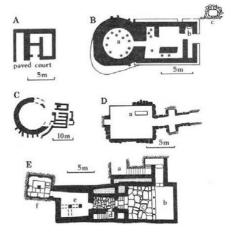
Megalithic tombs (space - like a womb)



Anatolia - Turkey 2000-500 BC

Minoan culture on Island Crete, 2000-1400 BC Main features:

- belief in afterlife
 copy of residential dwellings
 early phase: carved into cliffs
 later built tombs



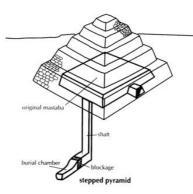
Zoltan Schrammel DLA

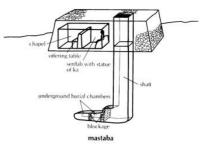
Ancient Egypt -tombs

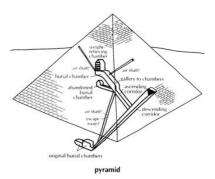
- Mastaba

ELEMENTS OF ARCHITECTURE Mastaba to Pyramid

serdab and chapel, then a mastaba with attached chapel and serdab (not shown). Later, mastaba forms of decreasing size were stacked over an underground burial chamber to form the stepped pyramid. The culmination of the Egyptian burial chamber is the pyramid, in which the actual burial site may be within the pyramid—not below ground—with false chambers, false doors, and confusing passageways to foil potential tomb robbers.







- Pyramid
 - bent pyramid
 - stepped pyramid
 - great pyramids

Persia

- tombs cut into face of cliffs

Tombs of Darius, Artaxerxes and Xerxes Naqsh-e Rostam, (5th C BC)



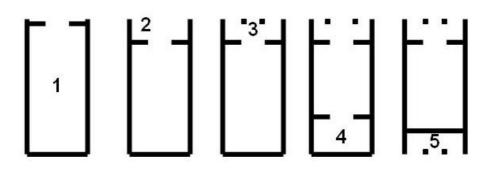
Ancient Greece

- temple

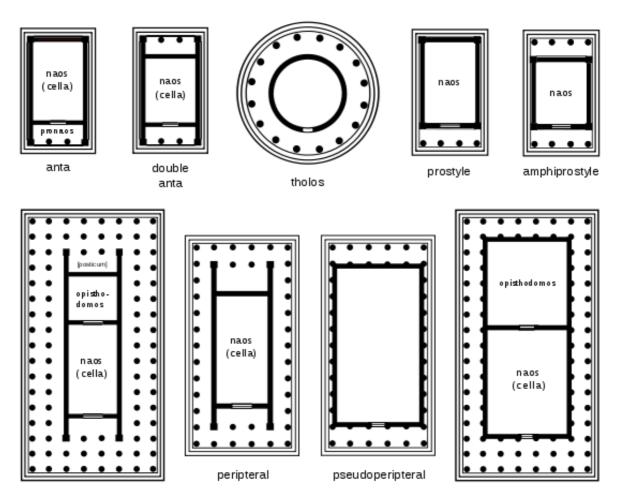
only for relics – shrine,

pseudo spaces

Megaron



- typology of Greek temples

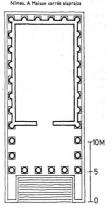


pseudodipteral

Roman Empire

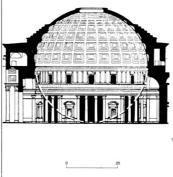
- temples

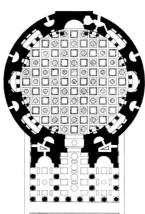
closed spaces (urban environment)



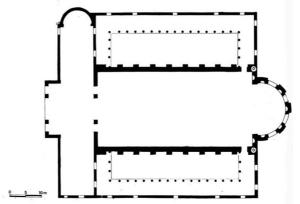
- divine emperors

Pantheon





- palace as prefiguration of churches 313 AD Trier, Germany

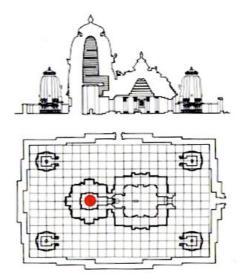


FIVE CLASSICAL RELIGIONS

Hinduism

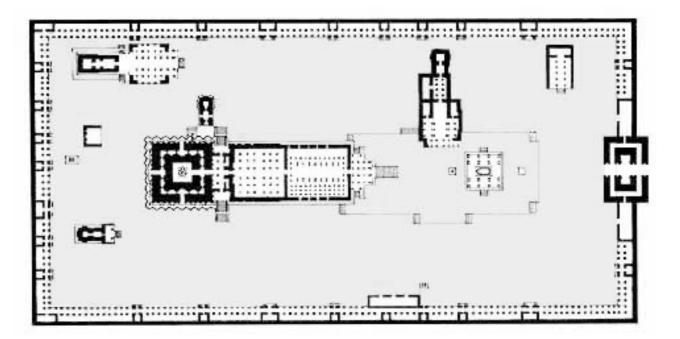
- large courtly temple complexes likeness of cosmos, deep symbolic character
- in the centre of the temple is the cell of the highest divinity
- cell and assembly space are independent elements

Brahmeshwara temple 11th C, Northern India



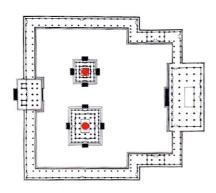
Brahmeshvara-Tempel, Nordindien 11. Jh. Brahmeshvara Temple in northern India, 11th century Maßstab / scale 1:1000

Bradishwara temple garden



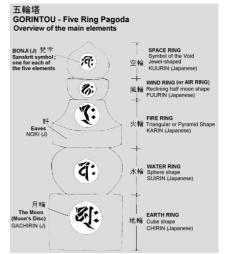
Buddhism

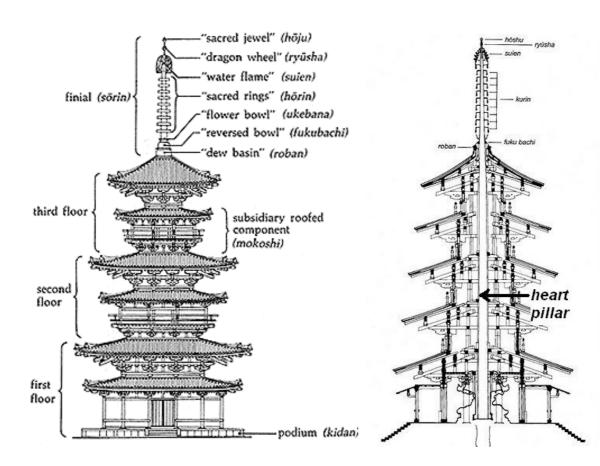
- stupa is a development of Indian pre-Buddhist tumulus it houses holy relics
- pagoda Japanese form of stupa
- no large span



Horyu-ji-Tempel, Nara 7. Jh. Horyu-ji Temple in Nara, 7th century Maßstab / scale 1:2000

Nara Horyu Ji complex, 7th C

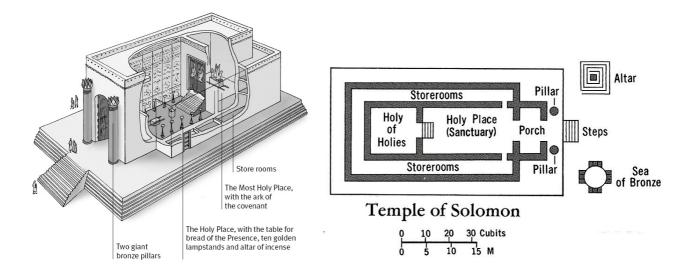




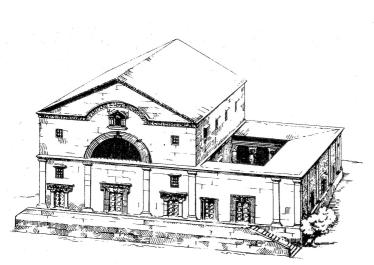
Judaism - oldest monotheistic world religion

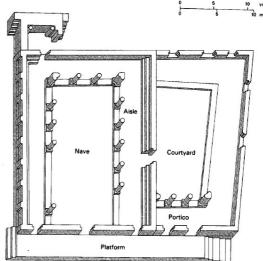
- synagogue = assembling

Temple of Solomon, Jerusalem 10th C BC. (Western or Wailing Wall today) – stone version of the original tent-like sanctuary for the Ark of Covenant



Synagogue of Caperrnaum 4th C BC.





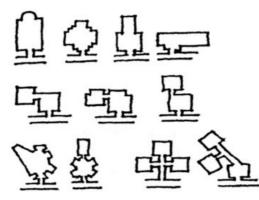
- Torah shrine oriented towards Jerusalem
- -podium for reading the Thorah scripts
- women are separated from men
- simple hall

Christianity

- the first manifestum of liturgy is a table (during the first 300 years underground life people assembled in private houses around a table)

- prefigurations: - Palatium Sacrum = palace of divine emperor

- synagogue as assembly hall



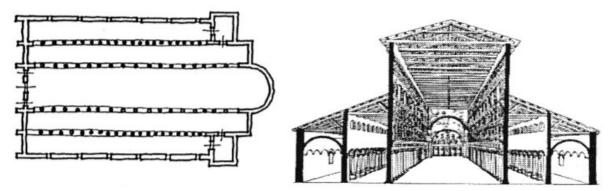
Cubiculums of Catacombes, Rome, Via Appia (1st, 2nd C. AD)

Emperor Constantin supported the spread – state religion. Edict of Milan 313 AD

First monumental assembly cathedral 313 AD.

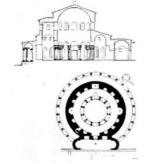
- timber roofed Roman hall structure, mixed function – assembly hall like a synagoge and holy place like a temple

- latin cross-shape lay-out, longitudinal hall



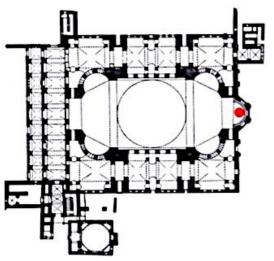
Cathedral S. Salvator (now S Giovanni Laterano) Rome 5th C.

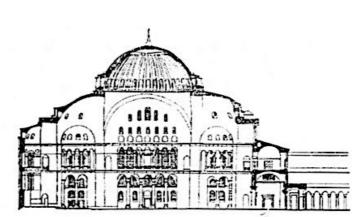
- central space arrangement for special functions – memorial or baptise church



S. Constanza Mausoleum Rome 4th C

East Roman Empire (Constantinople) both archetypes as before

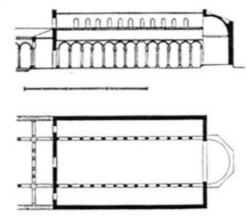




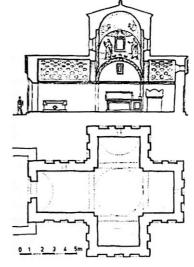
Constantinople (Istanbul), Hagia Sophia (537)

- 30 m diameter cupola golden heaven
- great influence on Islamic and Western Christian architecture

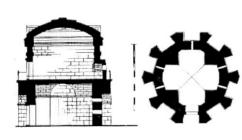
520



Ravenna, S. Appolinare Nuovo (519) Former palace-church







Tomb of Theoderic the Great

1054 Schisma separation of Church

West - Latin

East – Bezant

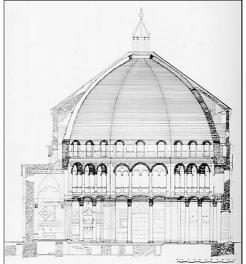
- no development in types and style orthodoxy = right doctrine
- strong local influences
- iconostas hides altar space

Western styles of sacral architecture

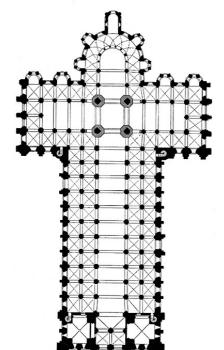
Romanesque style

11C monumental cathedrals and cloisters - palace of Lord

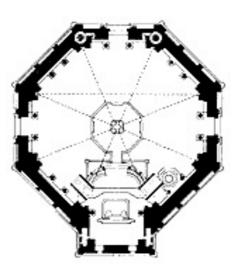
- pure sincerity the technological level in harmony with the philosophy
- missionary activity Benedict order "ora et labora"







Nave-cathedrals ec.: Toulouse, St Sernin 1080-1120



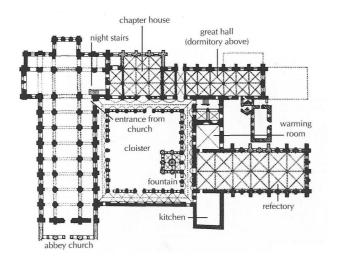
Central: ec: Baptistery Florence 1059-1128

Gothic

- political mission to integrate French territories "imperial sacral gothic"
- space arrangement follows Latin cross with transept, nave and aisles
- skeleton structure,
- groined cove (cross vaults)
- first building Saint Denis monastery church, (burial place of French kings) refurbished by abbot Suger 1137-44
- rose window symbol of heavenly Jerusalem



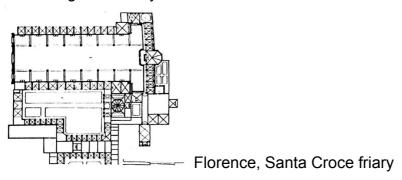
Cistercian architecture



Cistercian abbey Fontenay, France 13th C

Late Gothic

- friaries cloisters of beggar orders
- large assembly halls

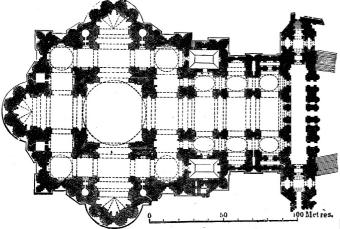


Protestantism

Calvin, Luther, Zwingli rejected the splendour of Gothic

Renaissance

- domed central church (but not centre of the liturgy)

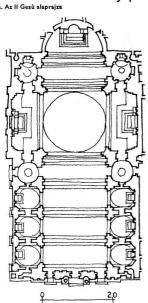


Rome, St Pietro Bramante + Michelangelo

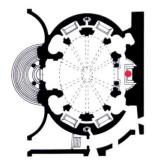
Baroque

Ró

- answer on the Protestantism
- influenced by protestant space forms

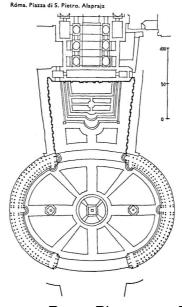


Rome, Il Gesu, Vignola 1575



 Sant' Andrea al Quirinale, Rom 1670 Sant' Andrea al Quirinale in Rome, 1670 Maßstab / scale 1:1000

- oval lay-out



Rome Piazza san Pietro, Bernini

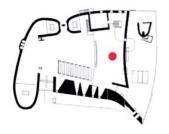
Modern

- traditional space arrangement

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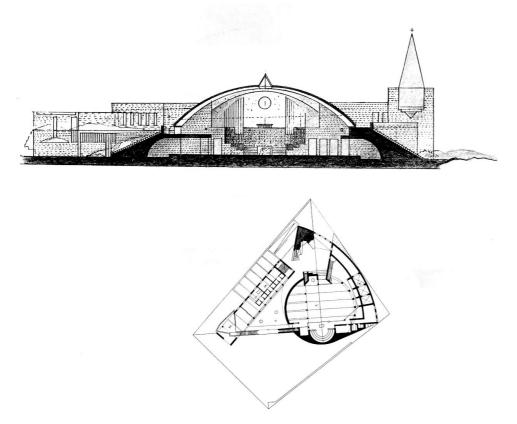
Városmajor church, Budapest, Aladár ÁRKAY 1932.

- free style - freedom of restrictions



Notre-Dame-du-Haut, Ronchamp 1955 Notre-Dame-du-Haut in Ronchamp, 1955 Maßstab / scale 1:1000

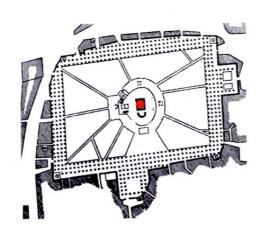
Le Corbusier

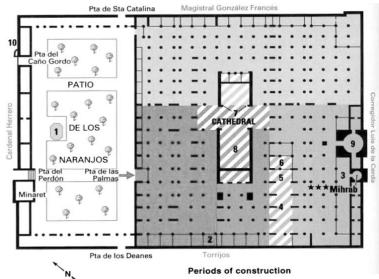


Church of Hungarian Saints, Budapest, Ferenc TÖRÖK, Mihály BALÁZS, 2000.

Islam (from 610 - prophet Muhammad)

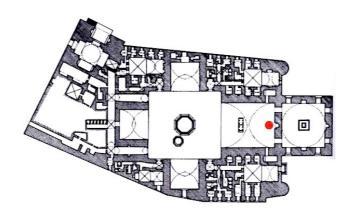
- Muslim temples are mosques mosque = place of prostration
- orientation of praying towards Kaaba in Mecca
- unified with other public functions (school, university, library, hospital, home of arm people, public bath)
- major elements:
- kiblah wall indicates the direction of prayer
- mihrab, niche in the kiblah wall
- courtyard
- minaret tower (numbers are different of denominations (Shia, Sunni))
- fountain for ritual cleaning
- no incorporate the human body
- decoration is based on plants and geometric motifs
- use of scripts verses from the Koran





18 Große Moschee mit der Kaaba, Mekka 16. Jh. Great Mosque with Kaaba in Mecca, 16th century Maßstab / scale 1:5000

Cordoba, Mezquita, 8th C, later refurbished for Catholic church, but the main space had been kept.



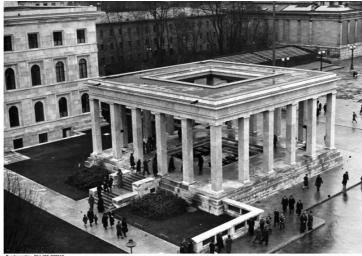
20 Sultan-Hassan-Medrese, Kairo 1356 Sultan Hassan Madrasa in Cairo, 1356 Maßstab / scale 1:2000

type without colonnade, influenced by pre-islamic Persian palace architecture – large open vaulted halls

Classical and modern temples (some based on fake political phylosophies)

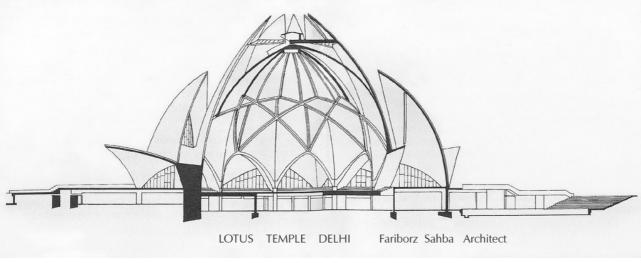


Walhalla temple Germany, Leo von Klenze 1842



Bundesarchiv, Bild 183-S22310 Foto: o.Ang. | November 1936

Nazi Ehrentempel Munich, 1936 (destroyed)



Bahá'i temple Delhi, Fariborz Sahba 1986.

symbolism

Modern churches



Church of Hallgrimur, Reykjavik, Island, G.Samuelsson 1940-86 expressionism



Church of the Light, Ibaraki, Japan, Tadao Ando 1989



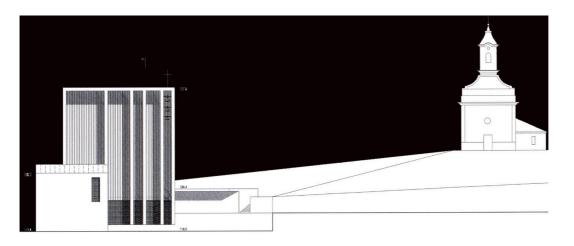
Church on the Water, Tomamu, Japan, Tadao Ando 1988



St Benedict Chapel, Sumvitg, Switzerland, P.Zumthor 1988



Jubilee Church Rome, Italy, Richard Meier 2003



Catholic chapel, Győrkismegyer, Hungary, Mihály Balázs 2010