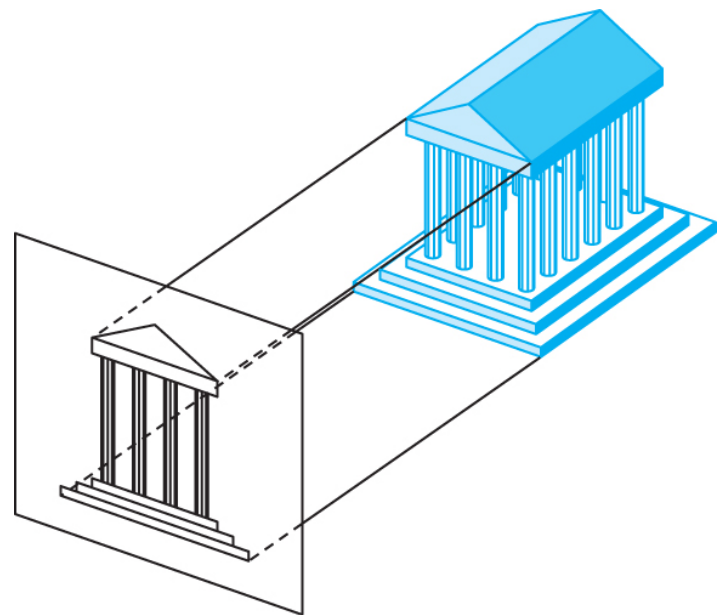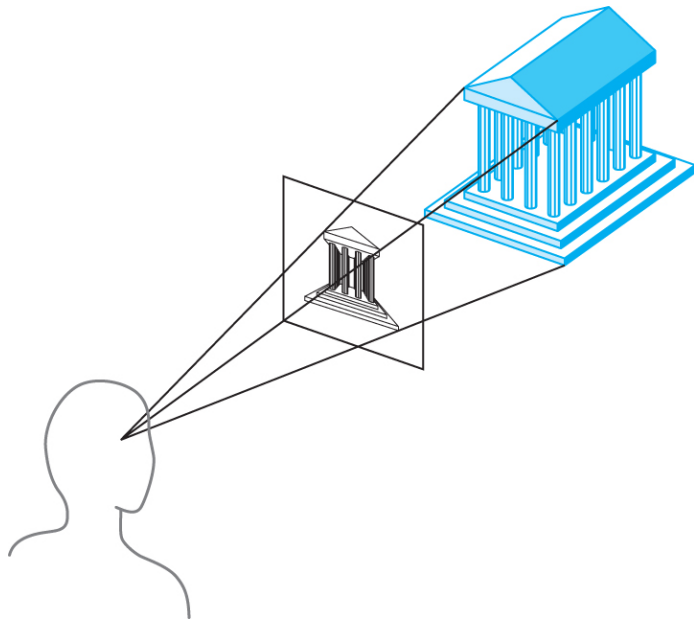# CS 354
Computer Graphics
Viewing

John Edwards
Fall 2012

Perspective vs. Orthographic

- Perspective: projections converge to a finite center of projection (COP)
- Orthographic: COP is at infinity so projections are parallel

Perspective

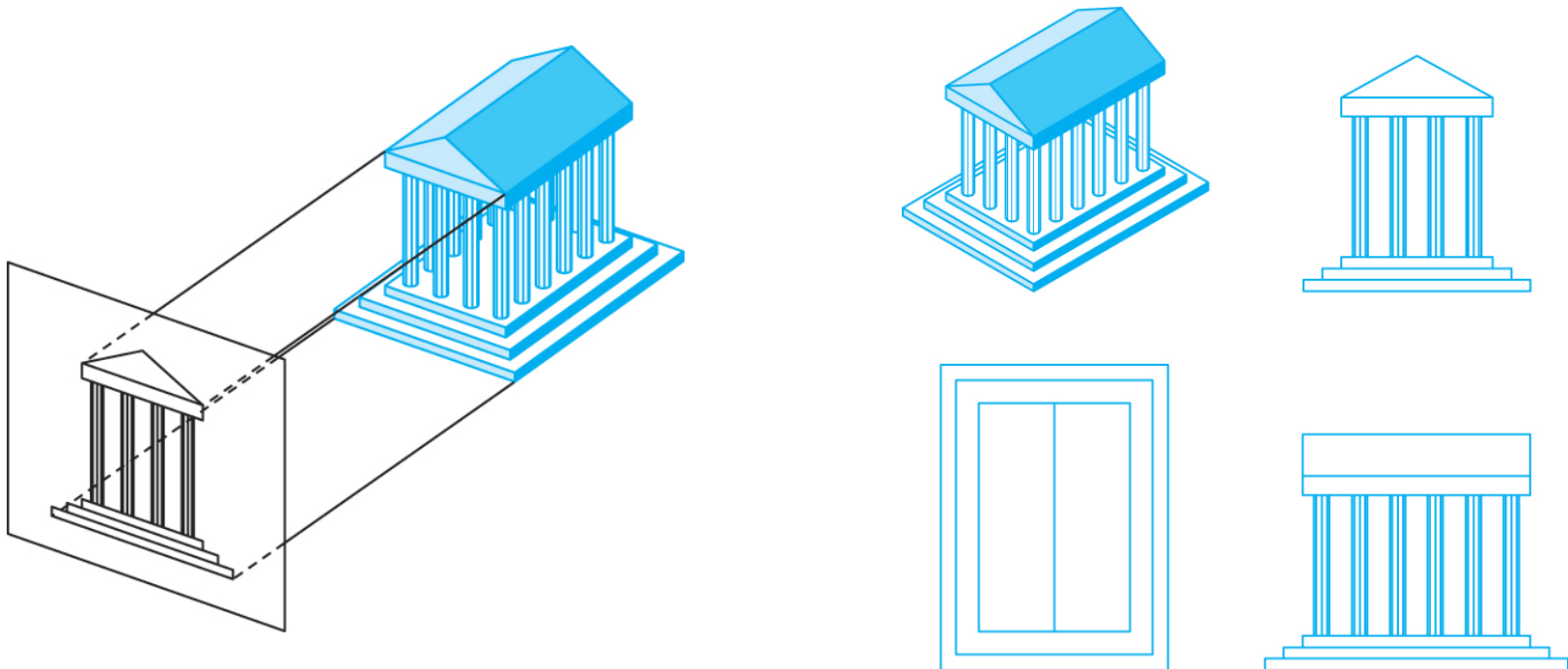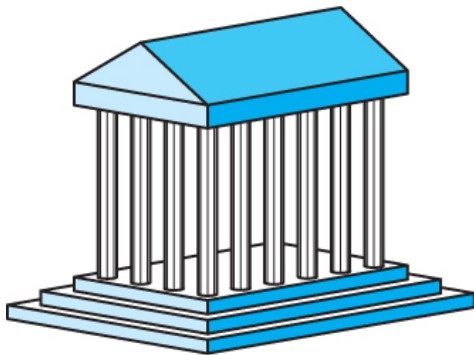| [x]-point perspective	three	two	one
# directions parallel to projection plane	0	1	2
# directions in which parallel lines converge	3	2	1

(a)   (b)   (c)

Orthographic

- Most common parallel view
- Projectors are orthogonal to projection plane
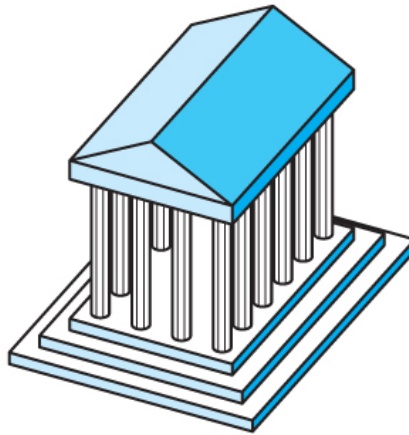- Multiple views are usually used
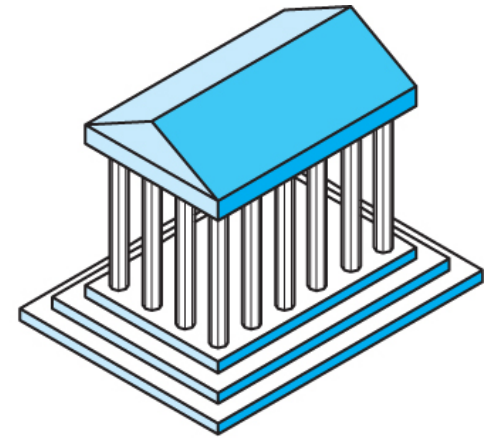
Orthographic - axonometric

[x]-point perspective	isometric	dimetric	trimetric
# symmetric principal faces	3	2	1
# foreshortening ratios	1	2	3

Dimetric   Trimetric   Isometric