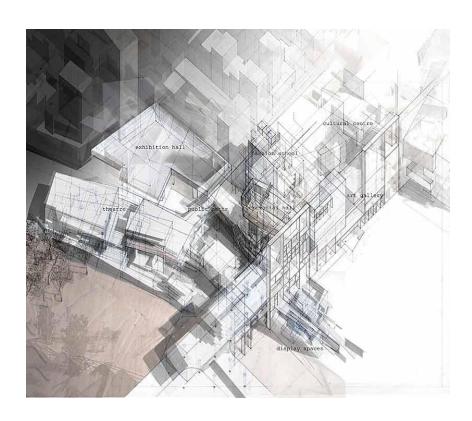


http://www.youtube.com/watch?v=q6mk9HPxWvo http://www.youtube.com/watch?v=bnu2GB7w4Qs



## technical drawing introduction what is an axonometric drawing?

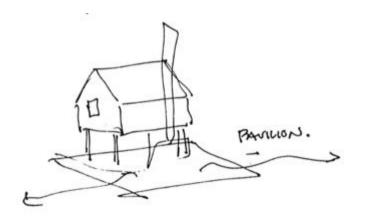


Axonometric means to measure along axes.

Axonometric projection shows an image of an object as viewed from a skew direction in order to reveal more than one side in the same picture.

## technical drawing introduction what is an axonometric drawing?

#### Parallel projection



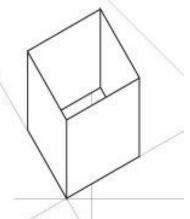
Parallel projections have lines of projection that are parallel both in reality and in the projection plane (drawing).

#### Parallel projection



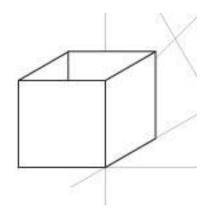
## orthographic

In Orthographic projection lines are orthogonal (making an angle of 90 degrees) to the projection



## oblique

Oblique projection is created by drawing one side of the object facing the observer. This side is always drawn as a true shape



#### what is an axonometric drawing?

Parallel projection

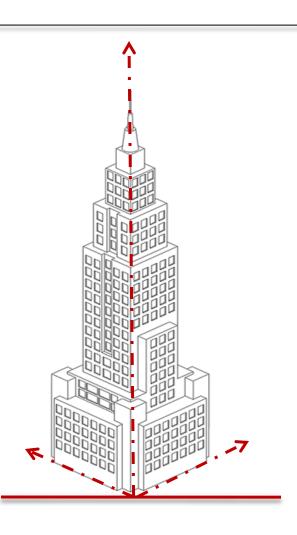


orthographic



#### axonometric

Axonometric projection is a type of orthographic projection, used to create a pictorial drawing of an object, where the object is rotated along one or more of its axes relative to the plane of projection.





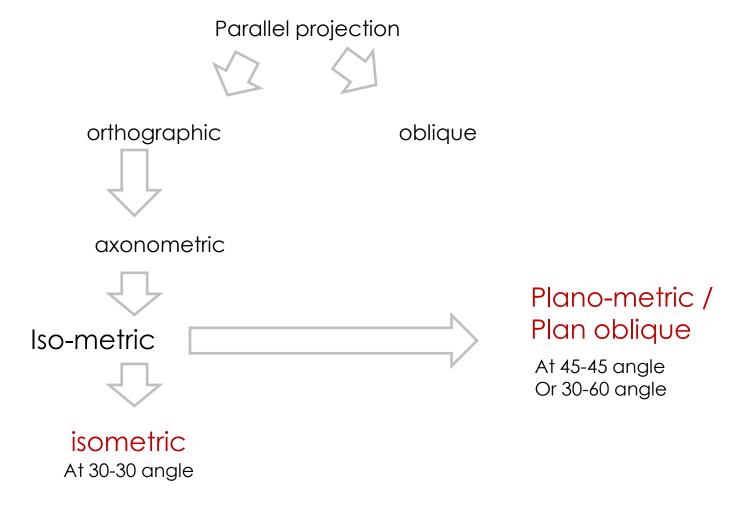
plane of projection



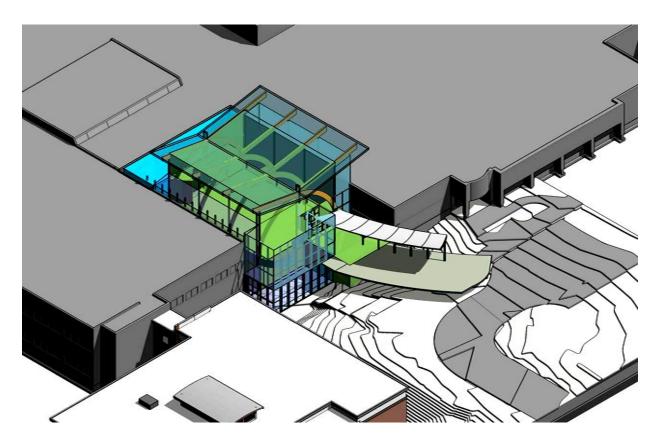
#### what is an axonometric drawing?

Parallel projection orthographic oblique axonometric tri-metric Iso-metric di-metric

#### what is an axonometric drawing?

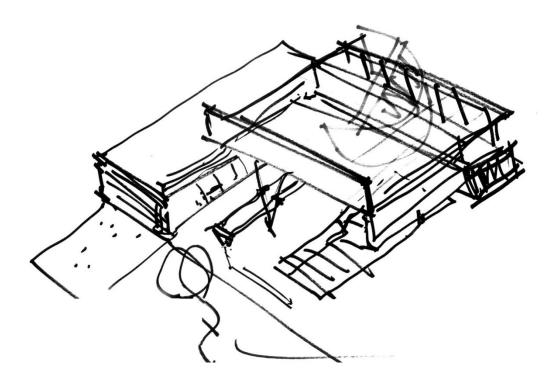


#### what is an isometric drawing?



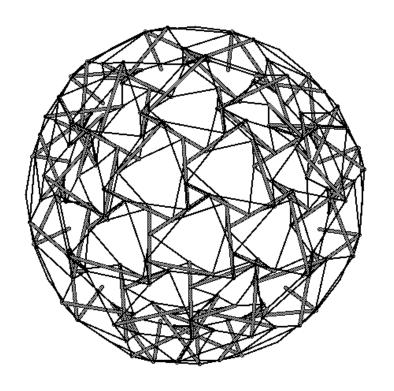
An isometric drawing is an angled drawing in which the horizontal lines are drawn at a 30 degree angle and the vertical lines are left straight.

#### what is an isometric drawing?



It is a simple way of representing a three dimensional object, keeping the elements to scale and showing the relationship between several sides of the same object, so that the complexities of a shape can be clearly understood.

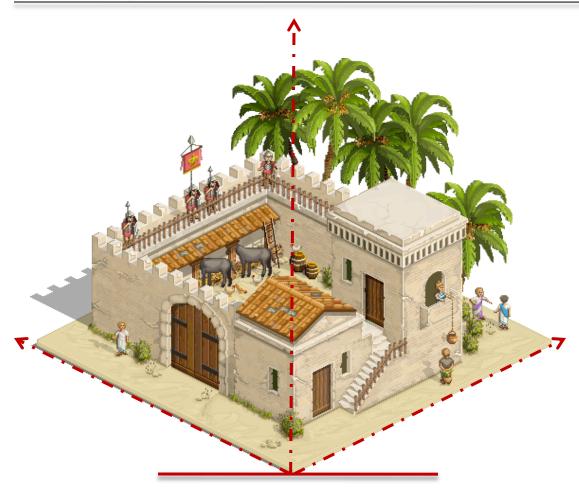
#### what is an isometric drawing?



As a result, an isometric drawing is simply a picture of an object viewed at an angle.

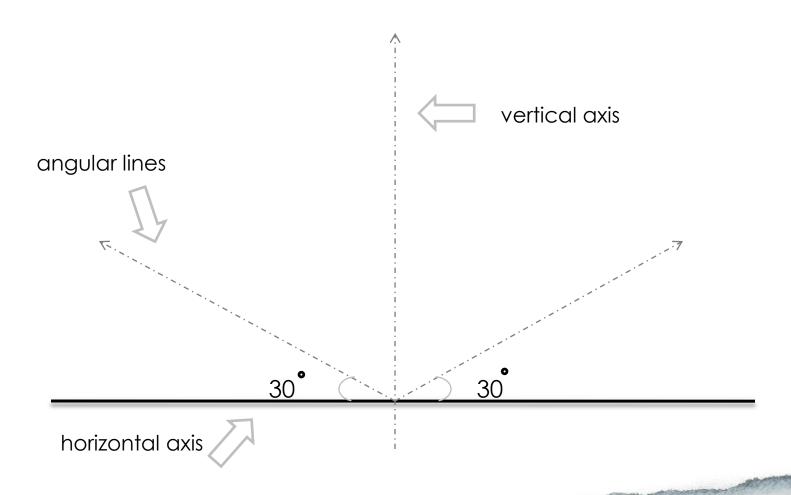
#### technical drawing introduction How to draw an isometric drawing?

#### Drawing isometric



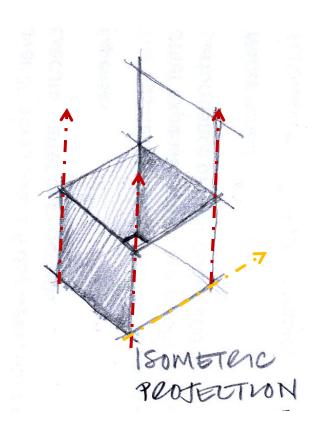
Isometric sketches begin with defining an isometric axis, one vertical and two drawn at 30 degrees from the horizontal.

### technical drawing introduction Components of an isometric drawing



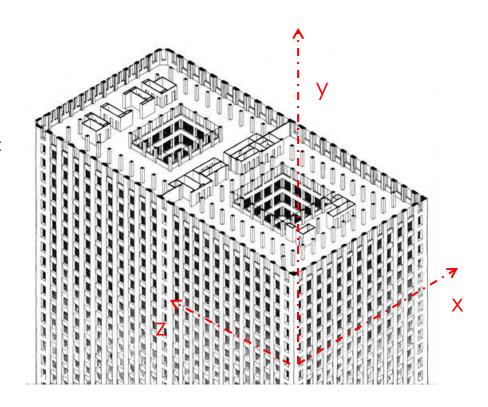
How to draw an isometric drawing?

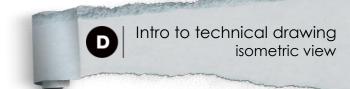
In an isometric drawing, the object's vertical lines are drawn vertically, and the horizontal lines in the width and depth planes are shown at 30 degrees to the horizontal.



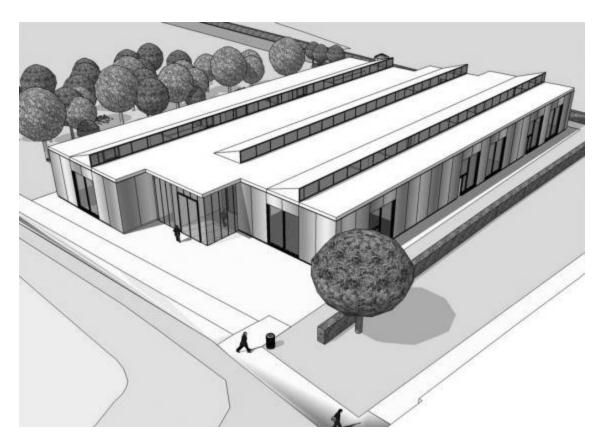
How to draw an isometric drawing?

These three lines of the isometric axis represent the three primary dimensions of the object: width, height, and depth.





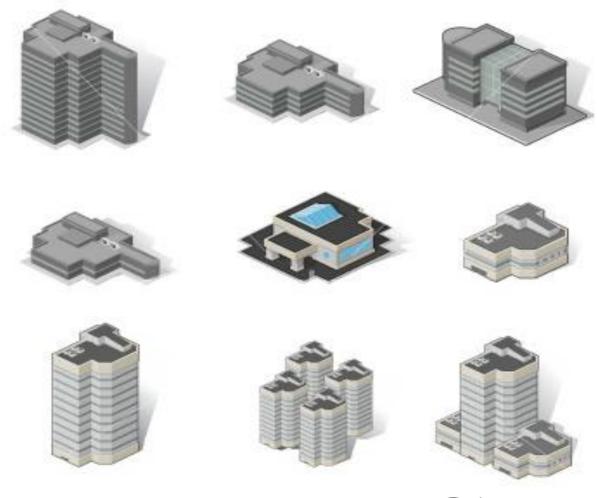
How to draw an isometric drawing?



When drawn under these guidelines, the lines parallel to these three axes are at their true (scale) lengths. Lines that are not parallel to these axes will not be of their true length.

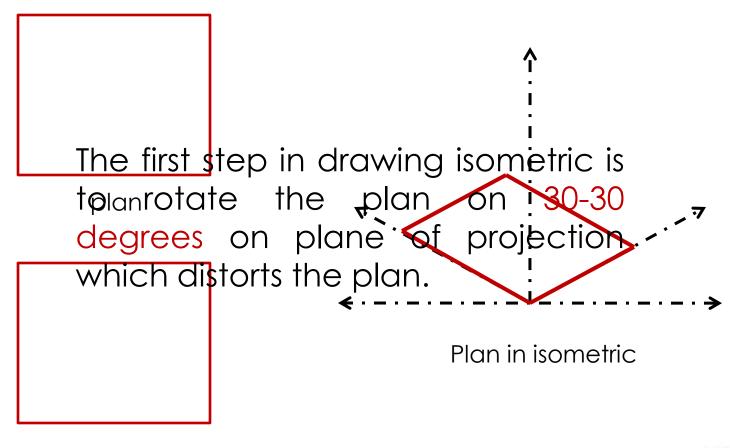
#### technical drawing introduction How to draw an isometric drawing?

## For example...

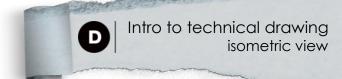


Intro to technical drawing isometric view

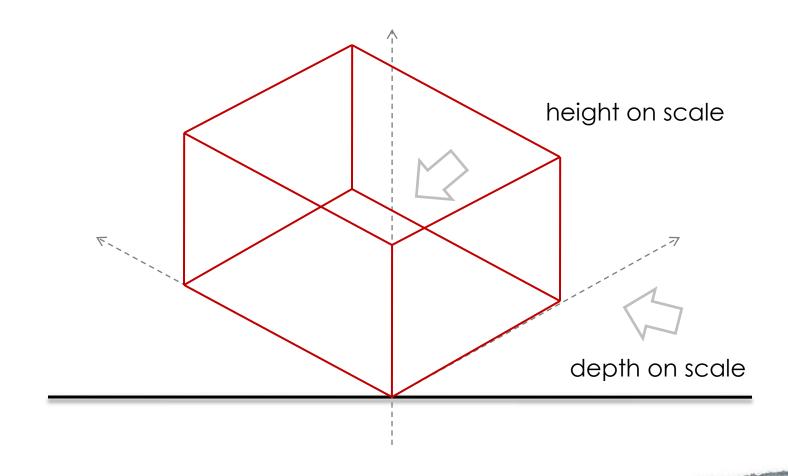
## technical drawing introduction drawing plan in isometric



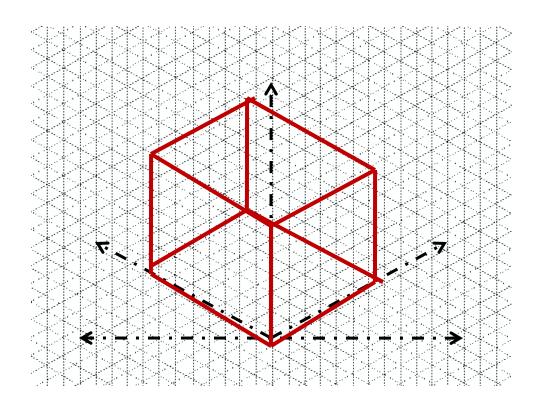
elevation



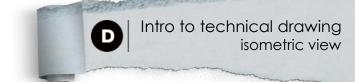
#### technical drawing introduction How to draw an isometric drawing?



## technical drawing introduction how to draw an isometric drawing?



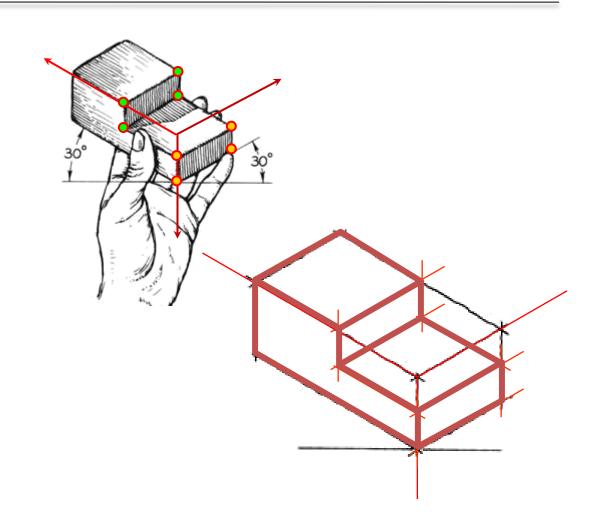
Isometric graph paper can also be used for making such drawings.



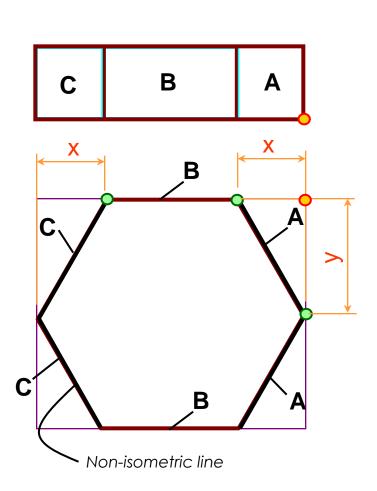
## technical drawing introduction Sketch from an actual object

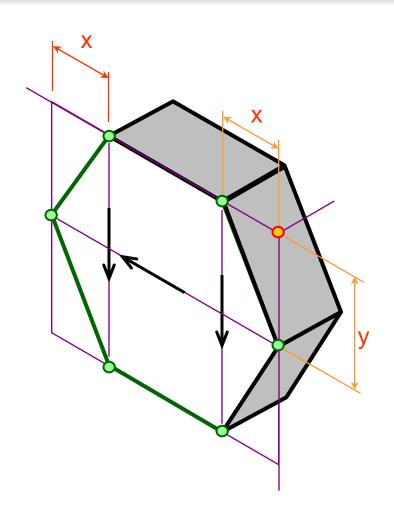
#### steps

- 1. Positioning object.
- 2. Select isometric axis.
- 3. Sketch enclosing box.
- 4. Add details.
- 5. Darken visible lines.

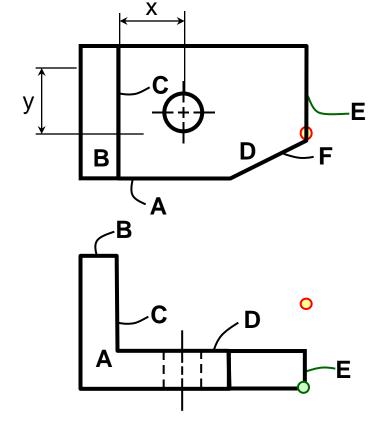


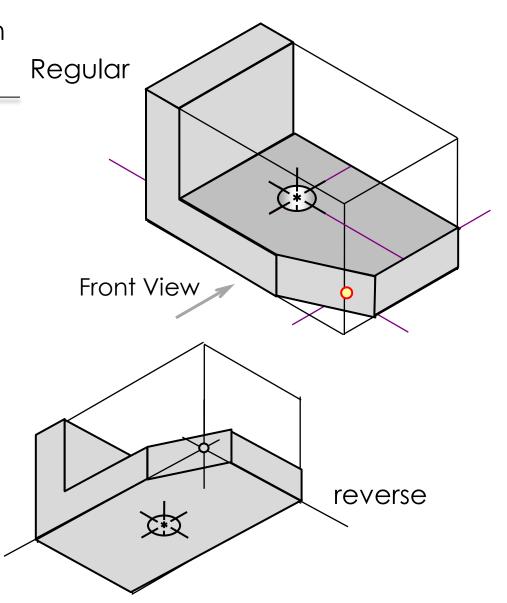
# technical drawing introduction Object having inclined surface





# technical drawing introduction Drawing isometric

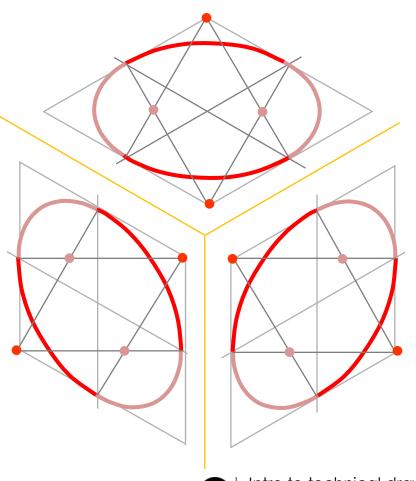




### technical drawing introduction Circle & Arc in Isometric

Four-centre method is usually used when drawing an isometric ellipse.

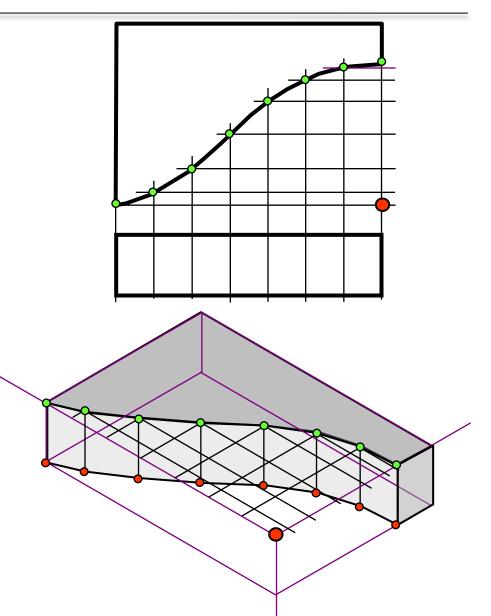
- 1. Locate the centre of an ellipse.
- 2. Construct an isometric square.
- 3. Construct a perpendicular bisector from each tangent point.
- 4. Locate the four centers.
- 5. Draw the arcs with these centers and tangent to isometric square.



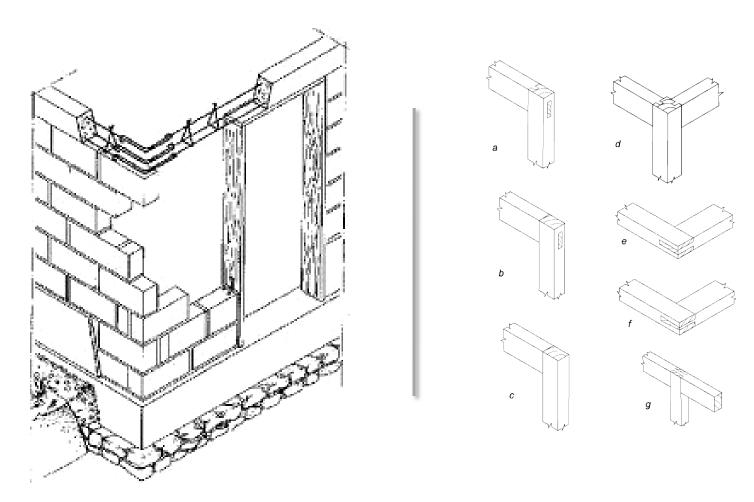
### technical drawing introduction Irregular Curve in Isometric

#### Steps

- 1. Construct points along the curve in multi view drawing.
- 2. Locate these points in the isometric view.
- 3. Sketch the connecting lines.

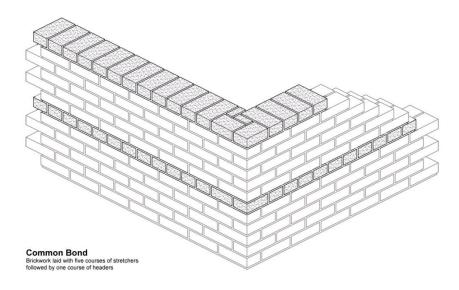


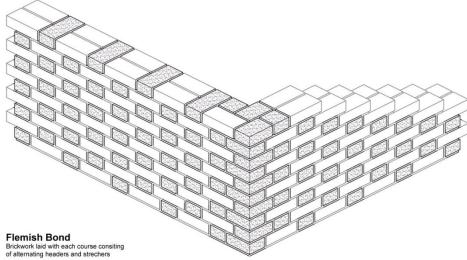
### technical drawing introduction Example in joinery





### technical drawing introduction Example in joinery

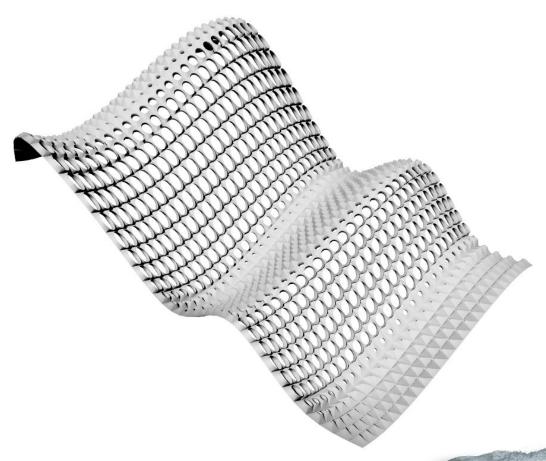




Isometric views of different types of brick bonds.



Create an isometric view of your home.

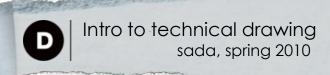


## technical drawing introduction quote of the day

If you cannot help worrying, remember that worrying cannot help you

## technical drawing introduction picture of the day



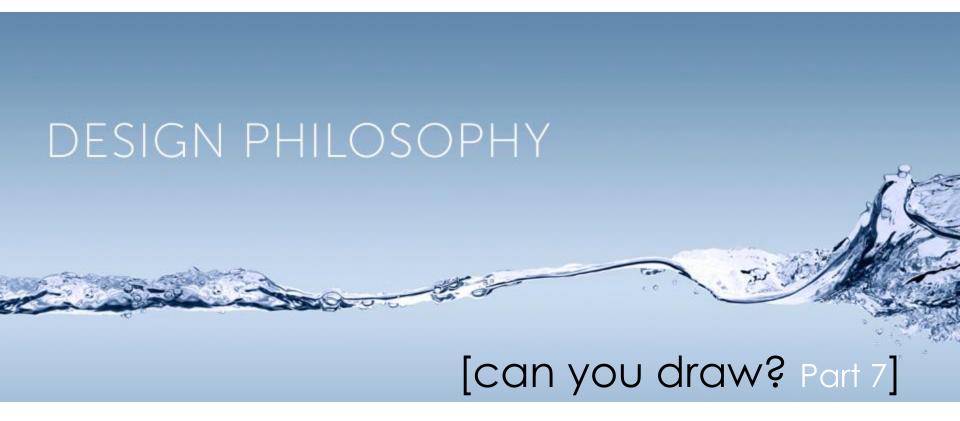


## technical drawing introduction building of the day



Egg building, Mumbai

## video of the day –





# DRAWING

a mean to design reasoning

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