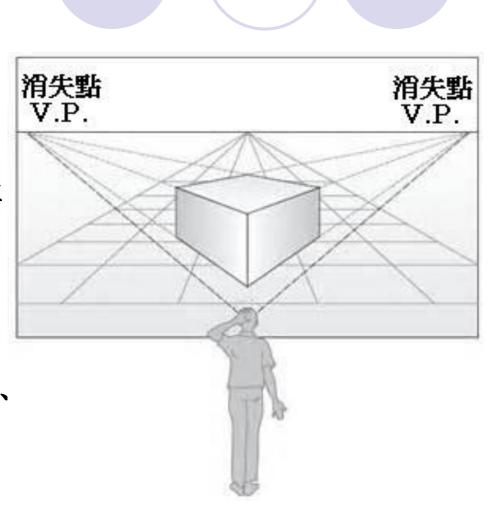


PERSPECTIVE

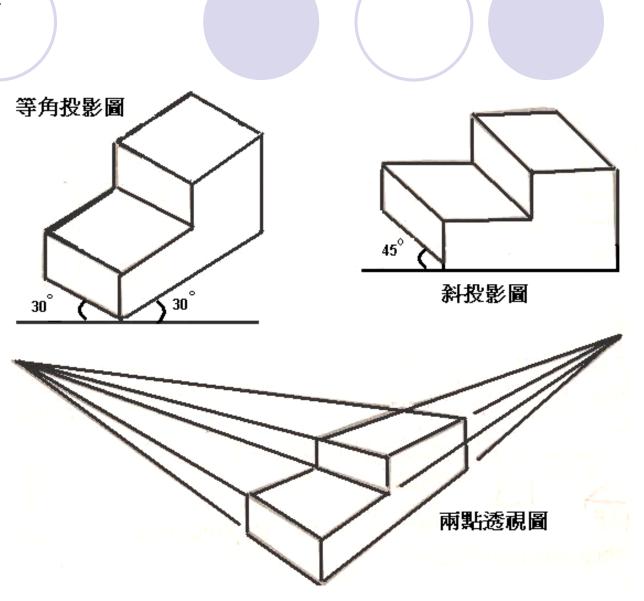
PROJECTION

姓名:	班別: ()

- 斜投影圖及等角投影圖以無限遠距離投影
- 透視投影圖是模仿人眼在 實際距離下看到的三維 (3D)立體圖以二維 (2D) 平 面圖的方式畫出來的繪圖 方法
- 透視投影圖與斜投影圖和等角投影圖比較,畫法十分複雜但效果比較真實
- 透視投影圖最常見於繪畫 實景建築物繪圖及室內設 計等

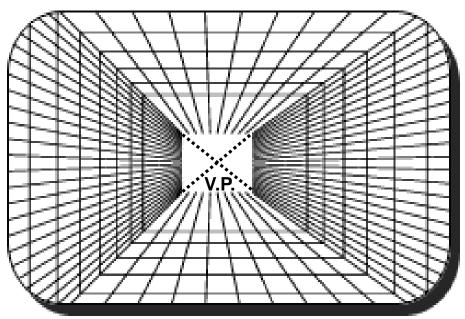


等角投影圖、 斜投影圖、透 視投影圖視覺 效果比較



在透視圖中,距離越遠的物體視覺上越小,無限遠的物體最終消失變成一點,稱為消失點(Vanishing Point V.P.),下圖的隧道透視圖就是一個例子。

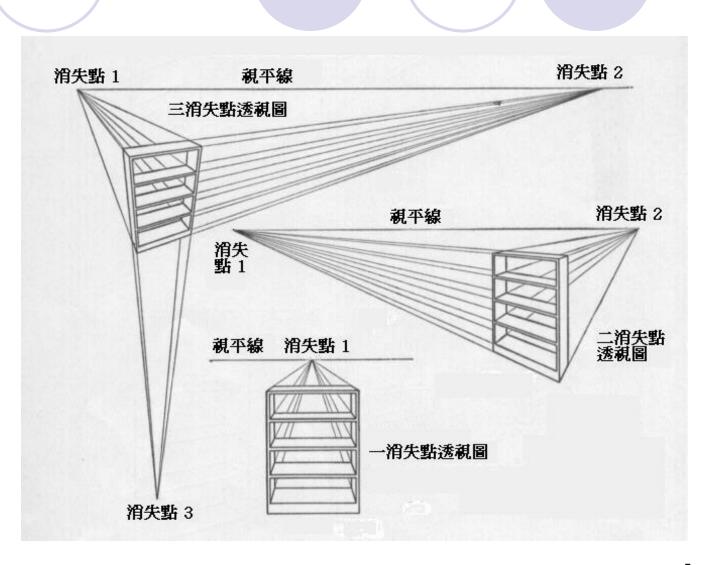




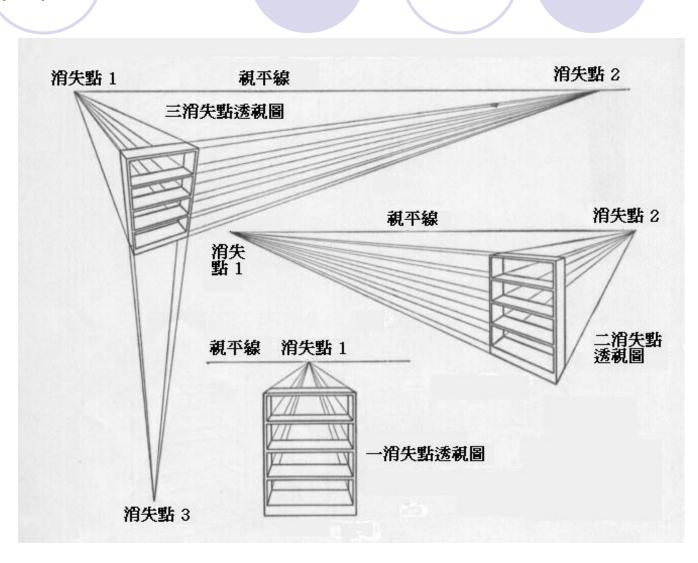
根據不同觀看 角度,透視圖 可分為以下三 種:

- ●一點透視圖
- ■二點透視圖
- 三點透視圖

右圖展示一個 木架在三種不 同透視圖下的 分別

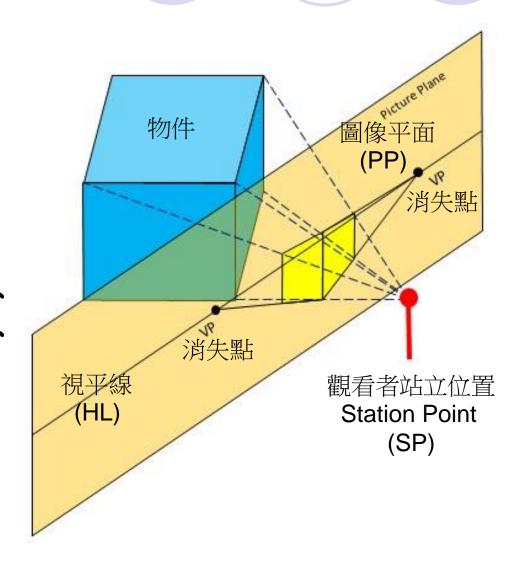


- 一點透視圖寬度、高度、深度中的任何二度與投影面平行,有一視平線及一消失點
- 二點透視圖寬度、高度、深度中的任何一度與投影面平行,有有一視平線及二消失點
- 三點透視圖 寬度、高度、深度 中的任何一度均不 與投影面平行,有 有一視平線及三消 失點



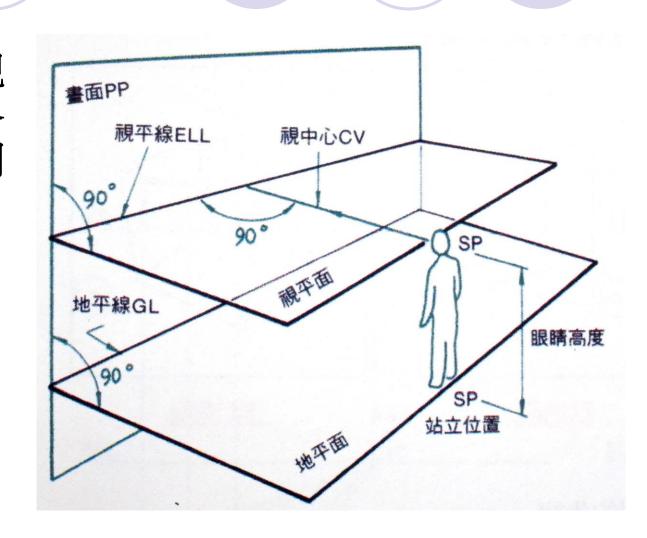
透視投影圖 - 圖像平面

- 畫面 (Picture Plane PP)是將看到的影像投影在上面的平面,即是要畫在畫紙上的圖像
- 一右圖是以二點透視投影圖為例來表示物件、觀看者站立位置(SP)、視平線(HL)、消失點(VP)、畫面(PP)等之間的關係



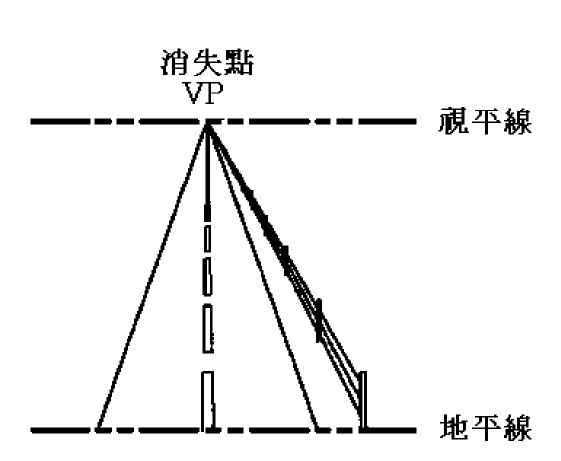
透視投影圖 - 地平面

右圖表示透視 圖地平面與各 主要元素之間 的空間關係



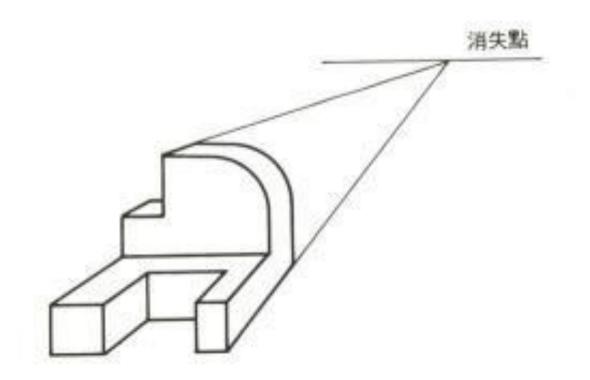
一點透視投影圖

- 消失點在視平 線上任何位置
- 視平線即是視線的水平位置
- 地平線是圖像 前端的最低點



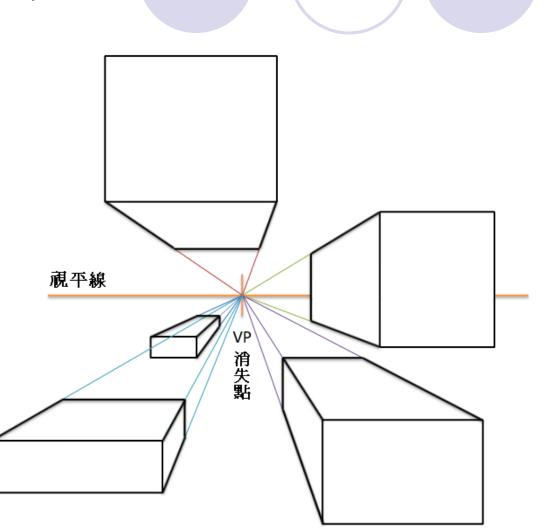
一點透視投影圖

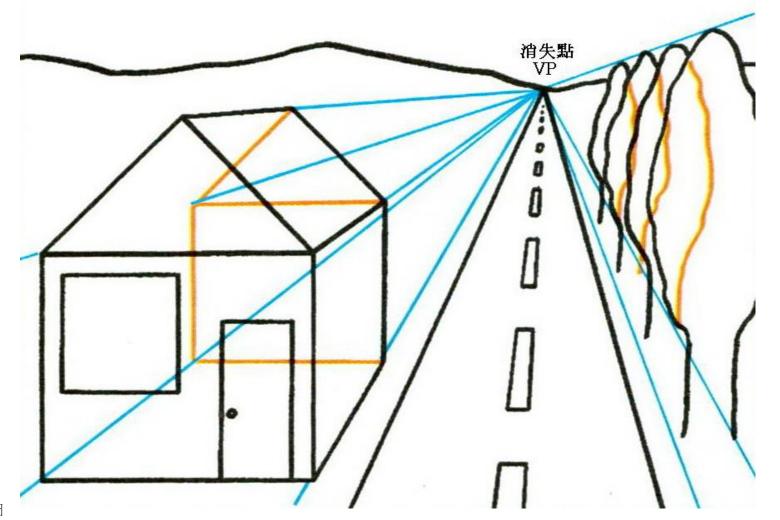
- 物件寬度與高 度與畫面平行、 深度向消失點 傾斜
- 一點透視圖又 稱為平行透視 圖

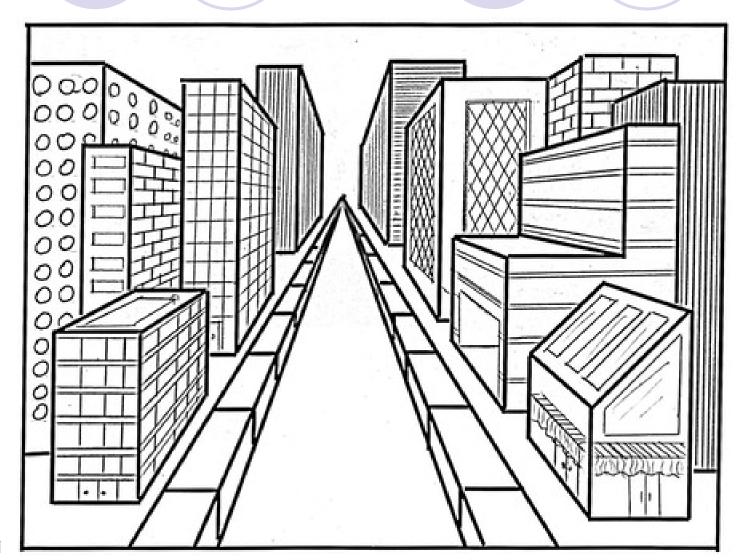


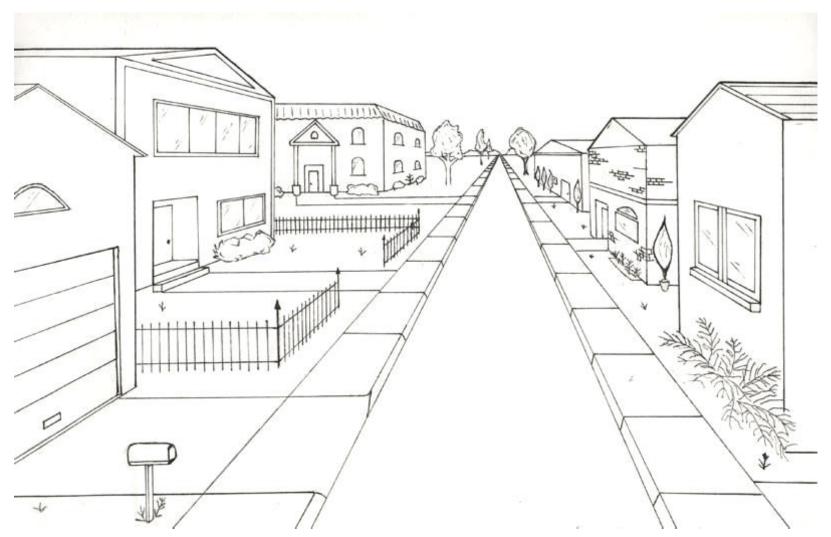
一點透視投影圖

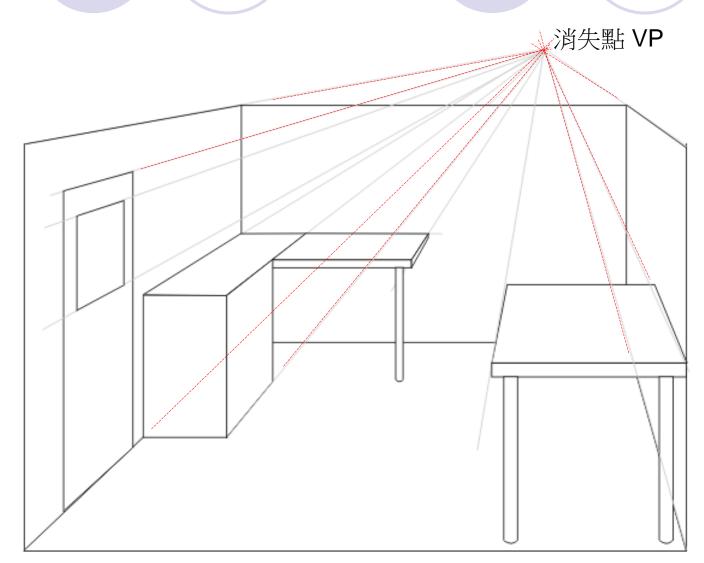
一點透視圖不同 高低視平線的視 覺效果比較

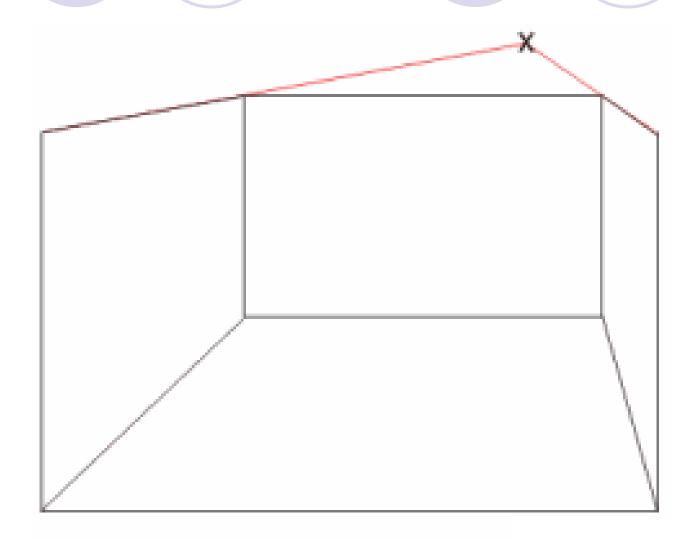


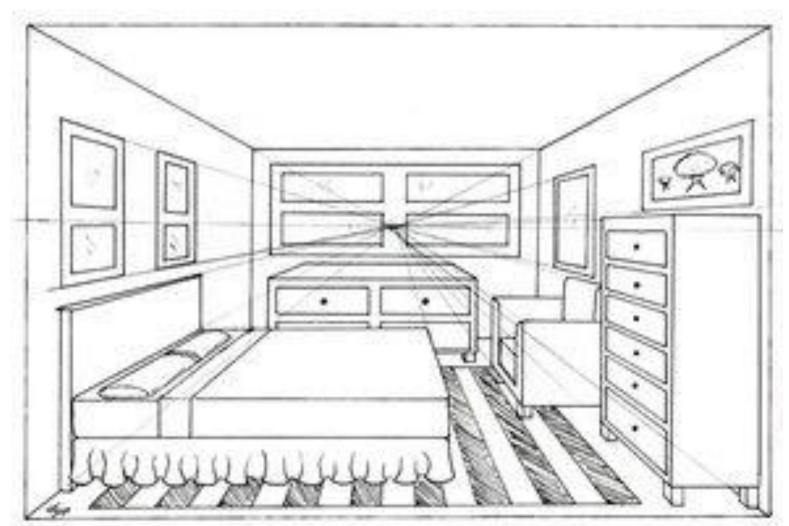


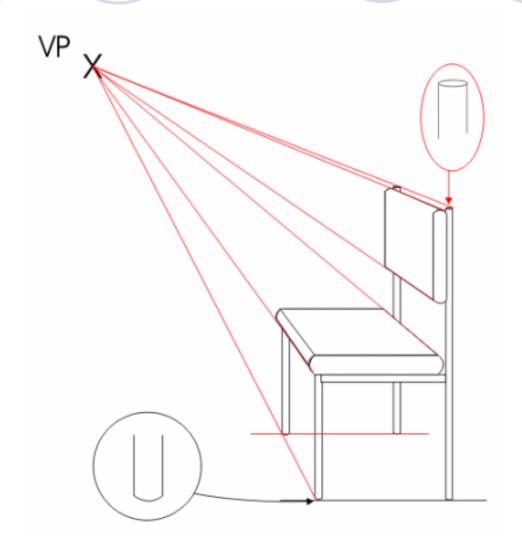


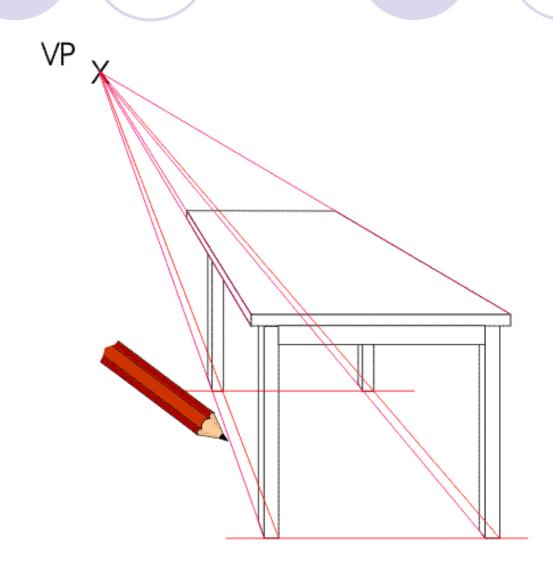


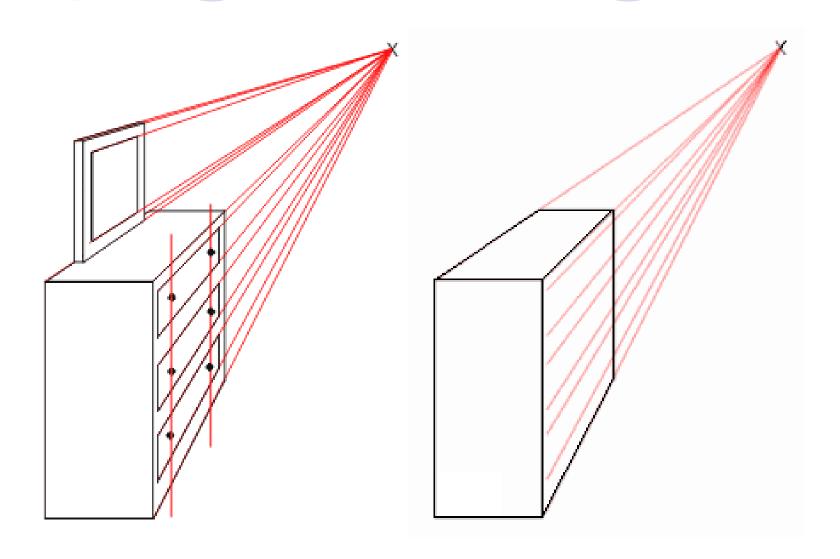




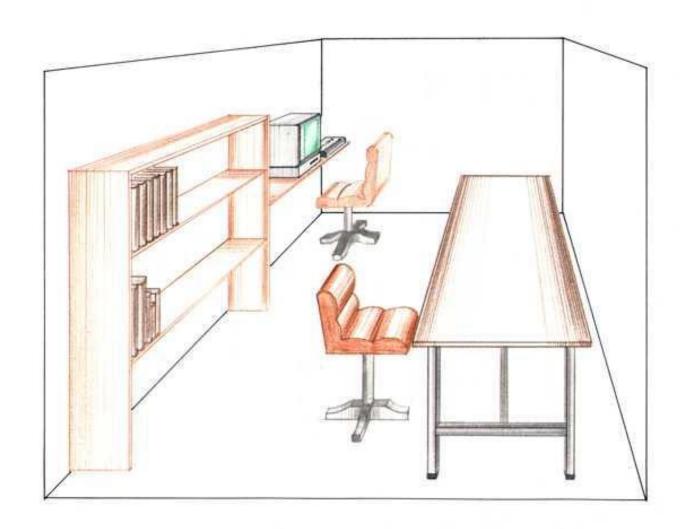




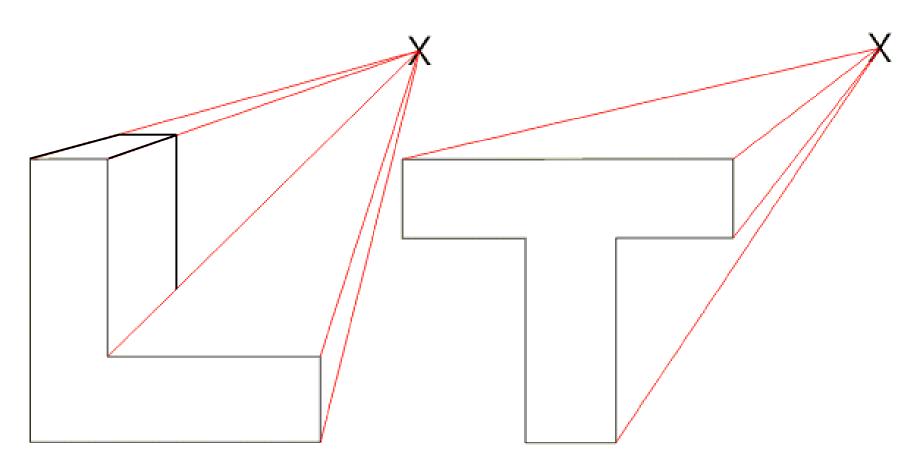






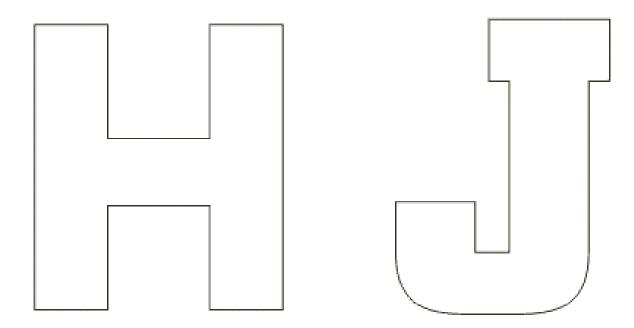


完成下面 LT 字的一點透視圖



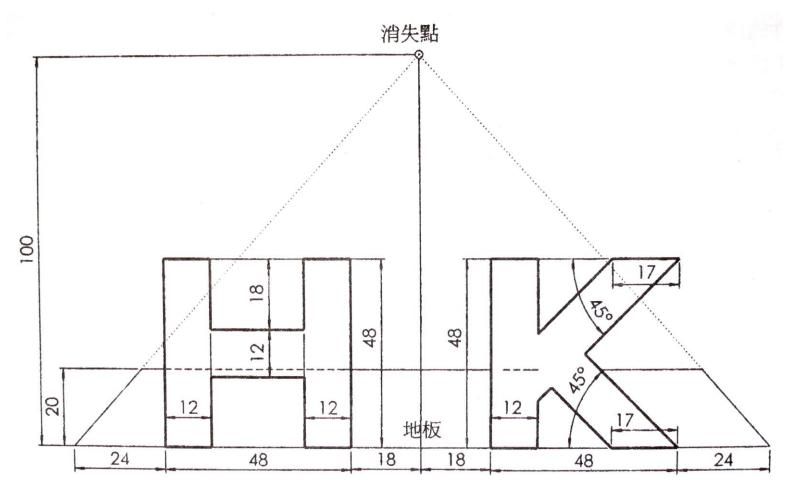




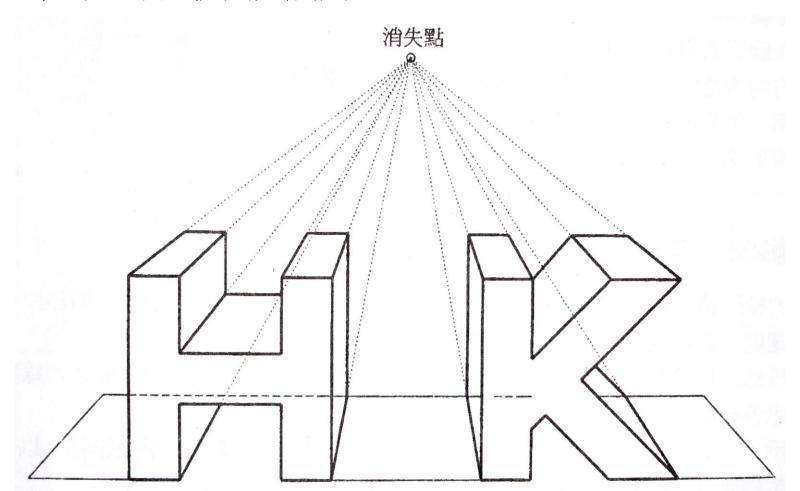


透視投影圖

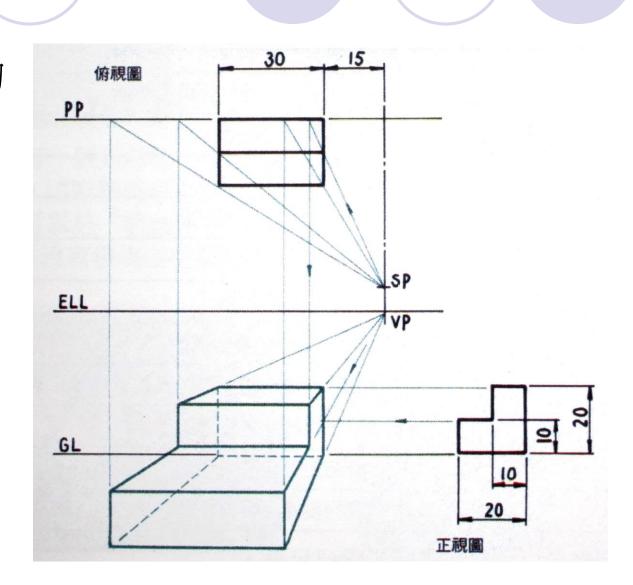
完成下面 HK 字的一點透視圖

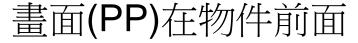


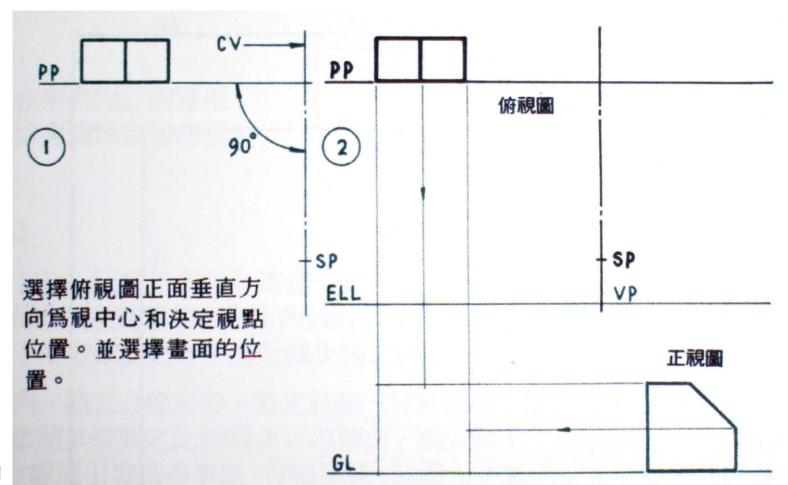
HK 字的一點透視圖完成圖



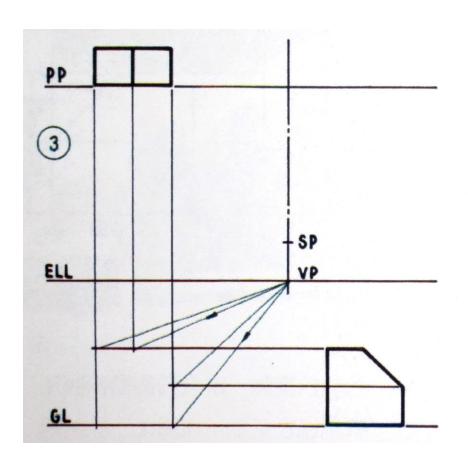
畫面(PP)在物件後面

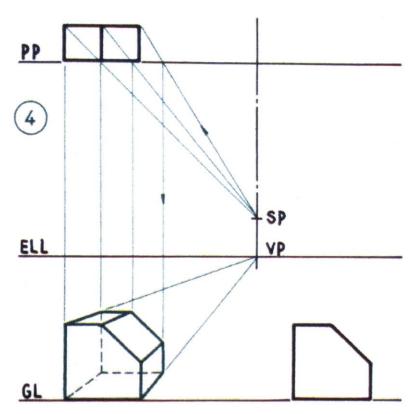




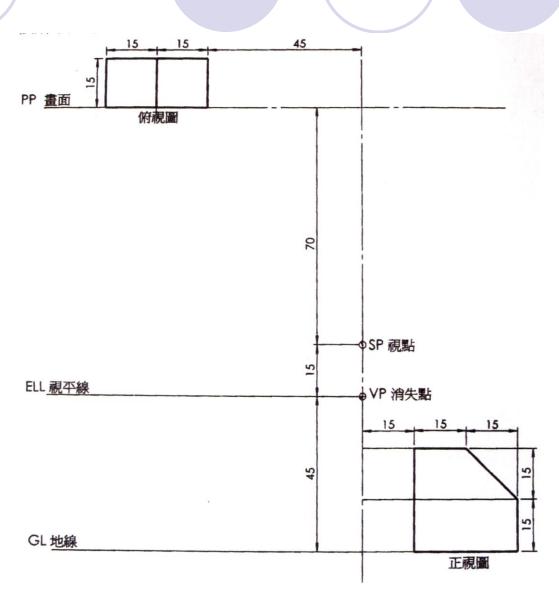


畫面(PP)在物件前面



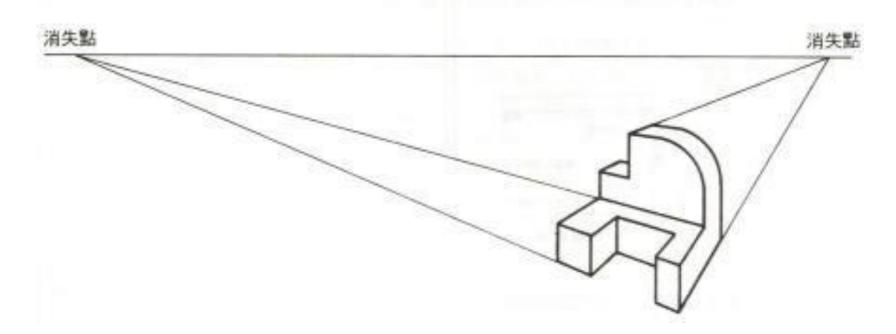


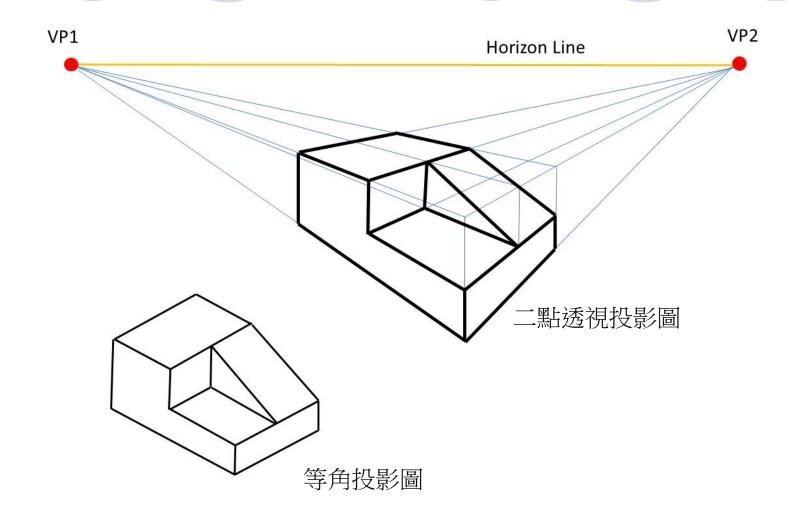
畫出右圖的一點 透視圖

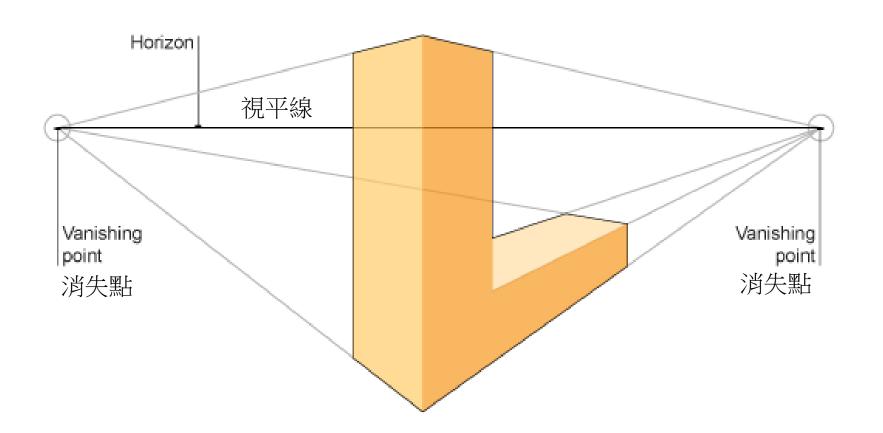


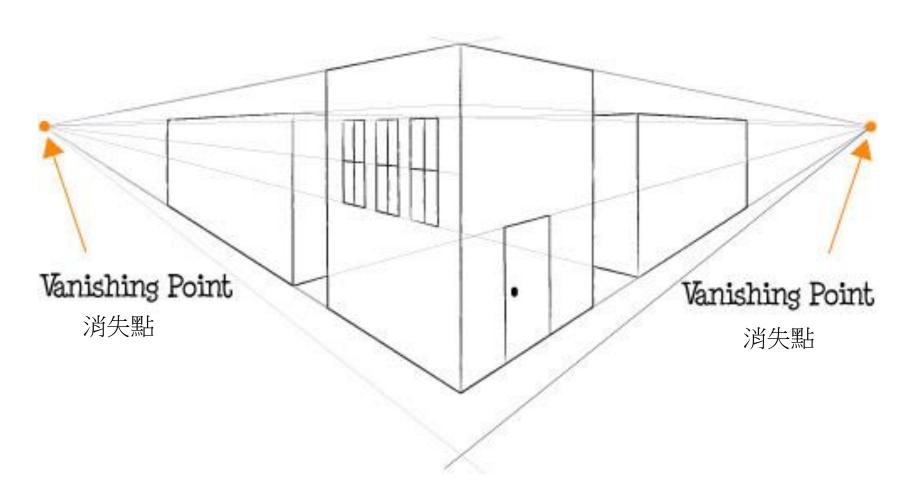
二點透視投影圖

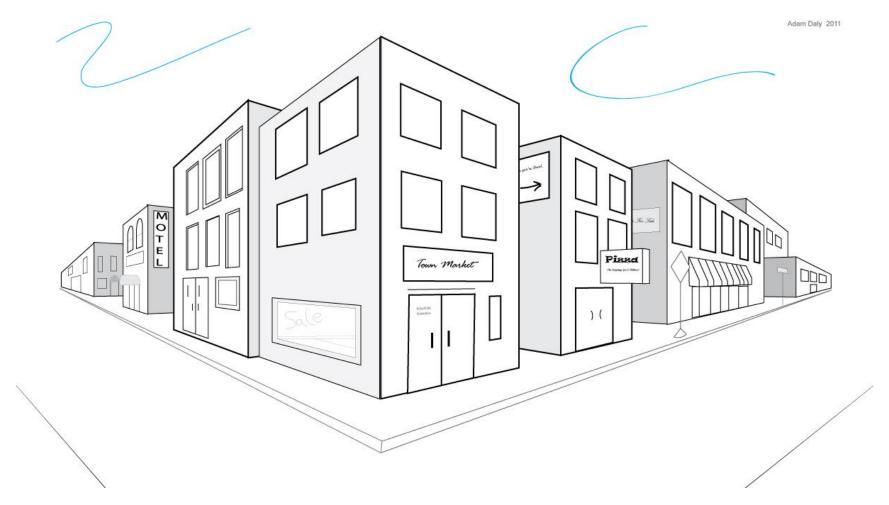
- 物件高度與畫面平行、寬度與深度分別向左右消失點傾斜
- 二點透視圖又稱為成角透視圖

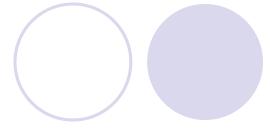


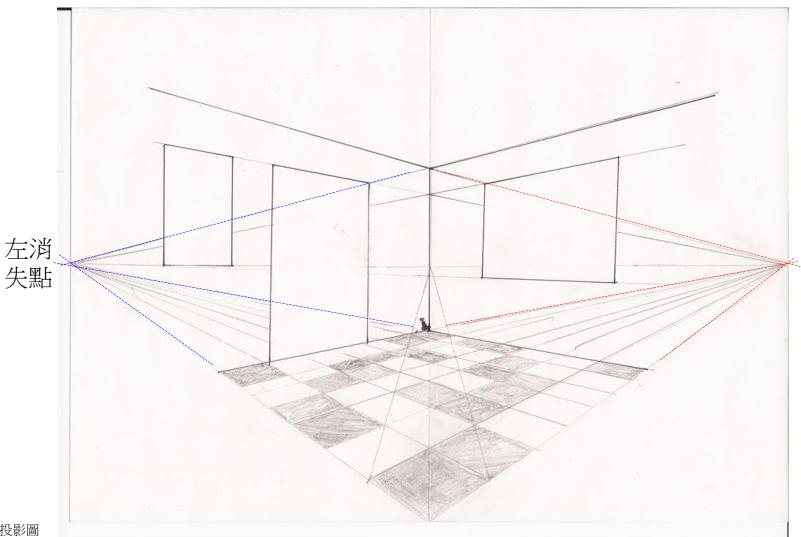












透視投影圖

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右消

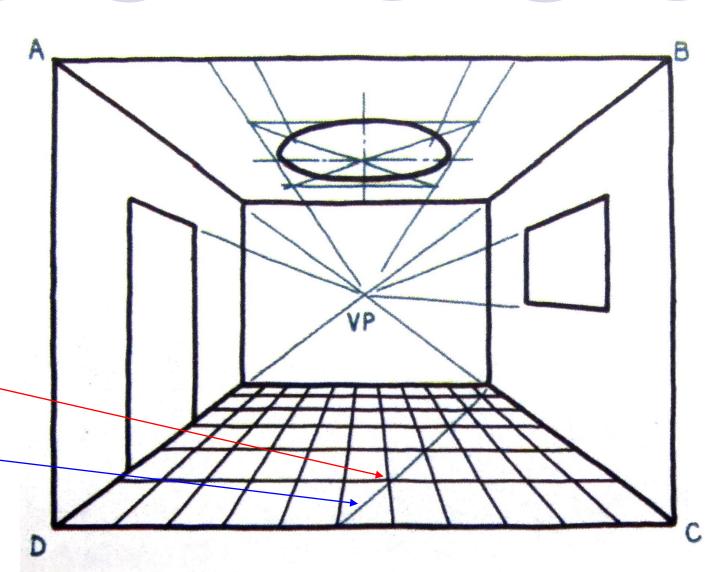
失點

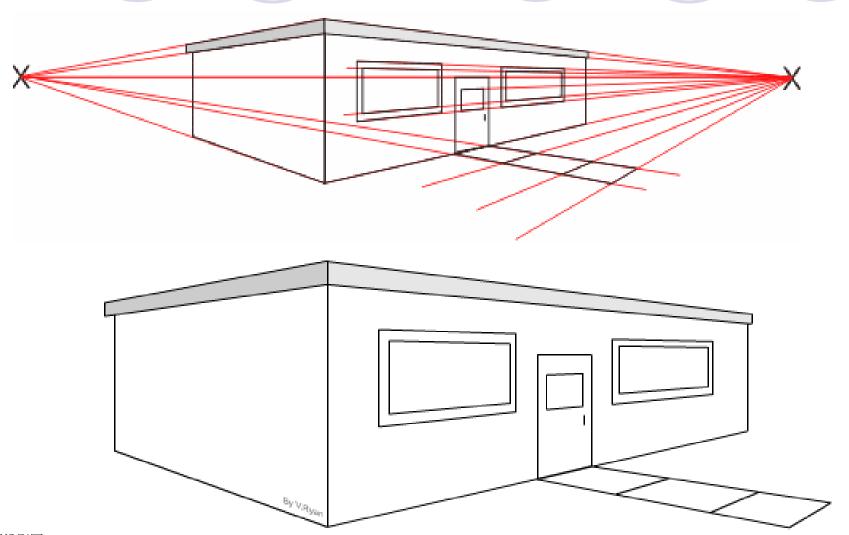


在室視會中天燈地板內遇畫圓方磚

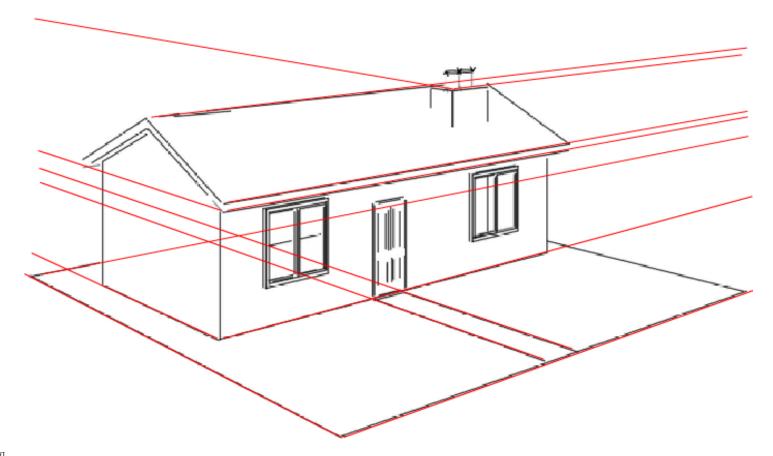
交點

輔助用對角線

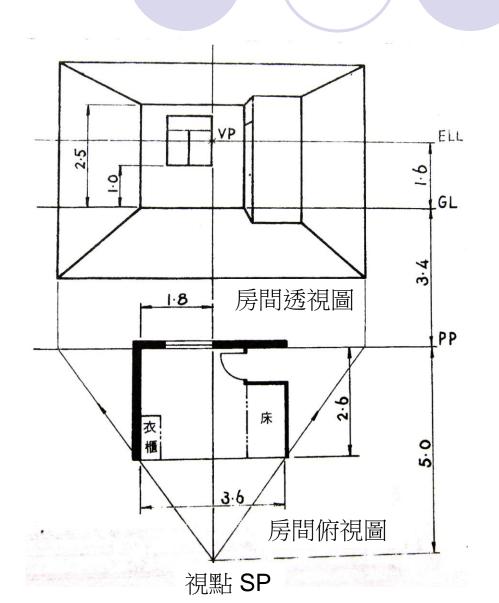




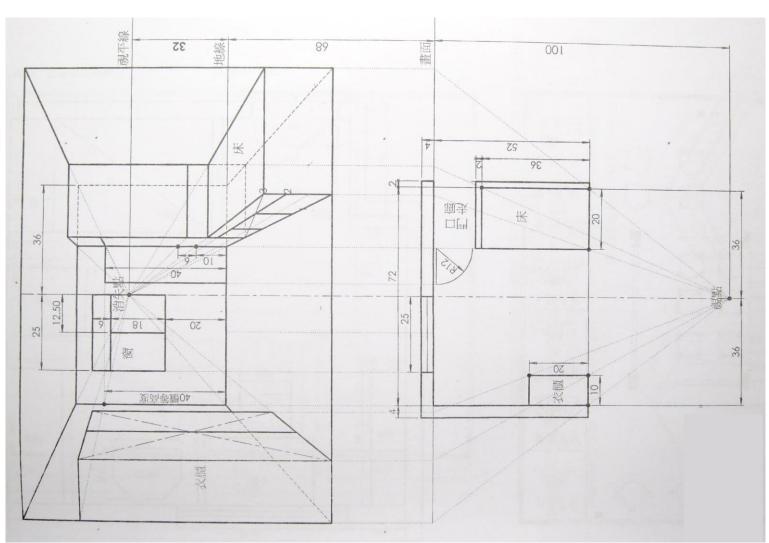
消失點在畫紙外,畫投射線時只能估算消失點位置

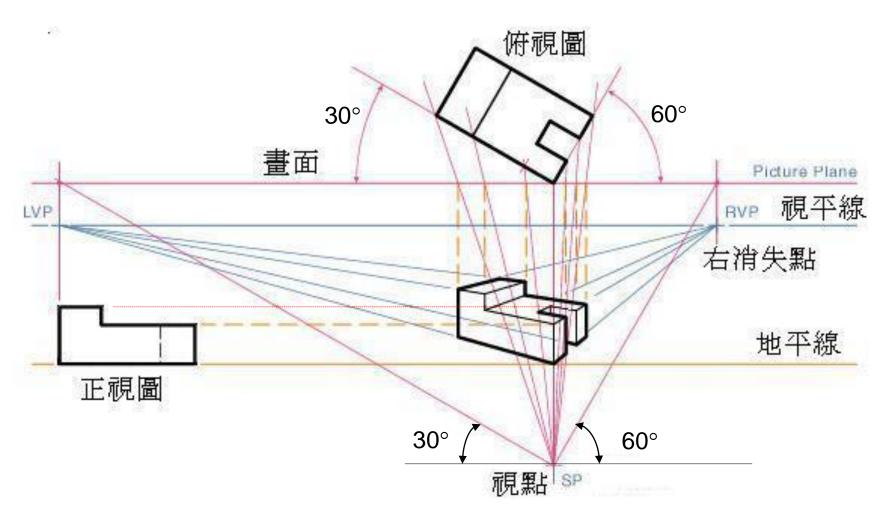


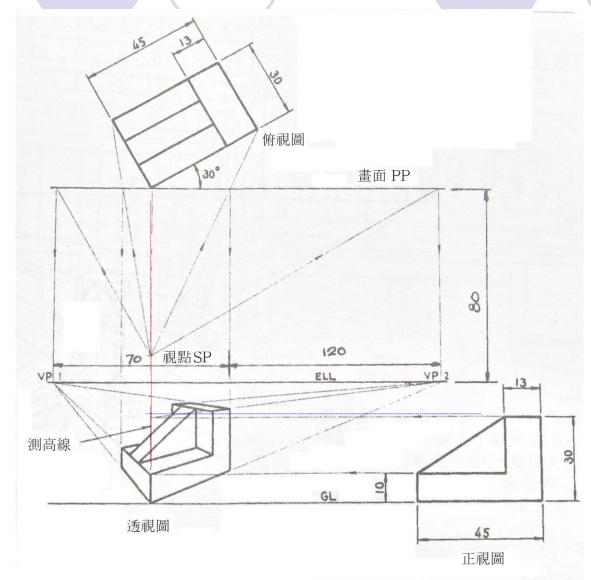
由房間俯視圖繪畫透視圖



加入床和衣櫃







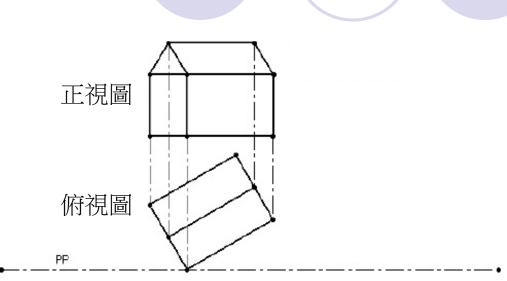


PP = 畫面

HL = 視平線

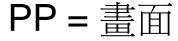
GL = 地平線

SP = 視點





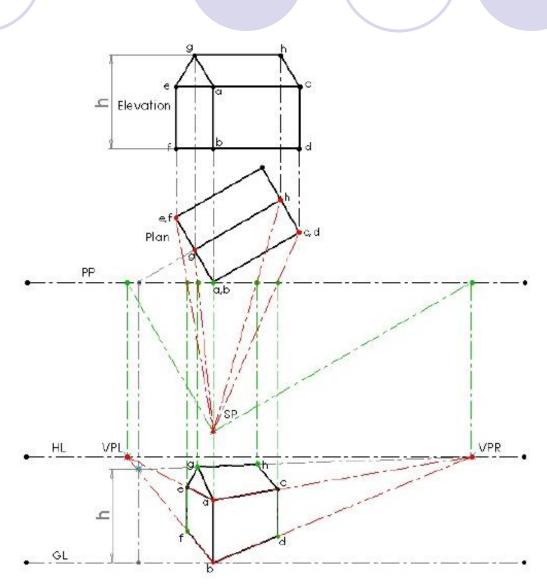
GL



HL = 視平線

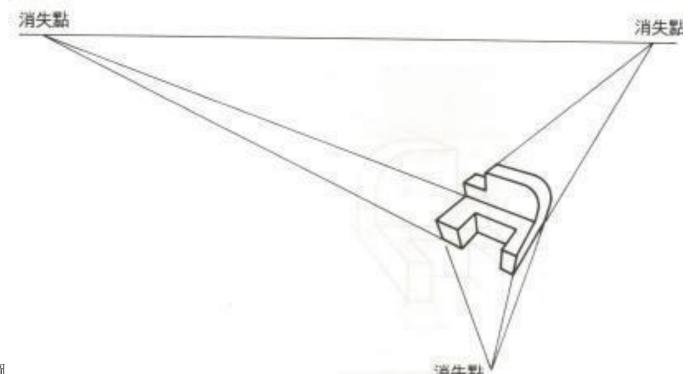
GL = 地平線

SP = 視點

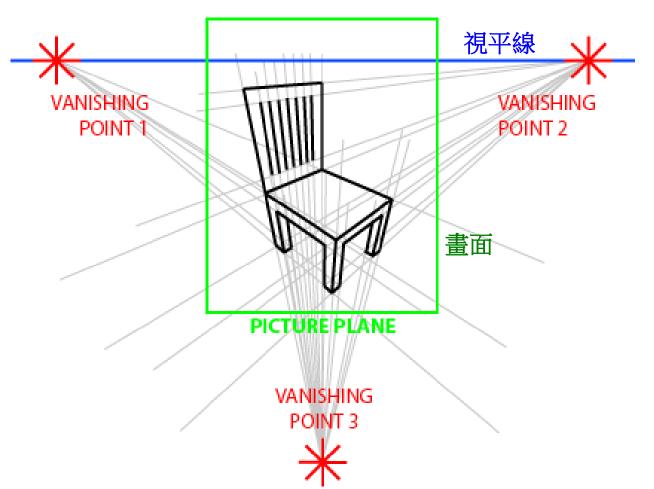


三點透視投影圖

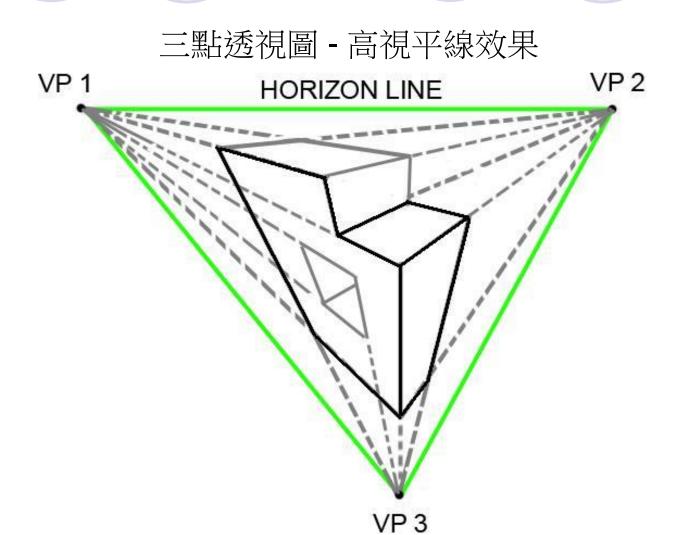
- 物件寬度、高度、深度皆不與畫面平行,各 自向自己的消失點傾斜
- 三點透視圖又稱為傾斜透視圖

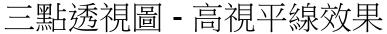


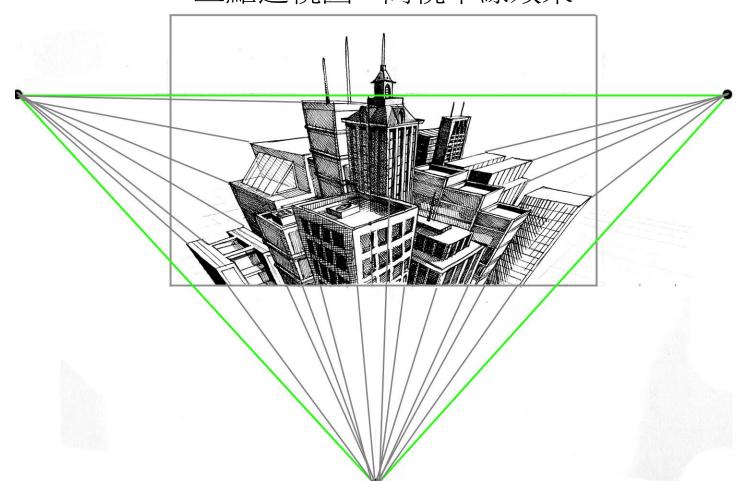
三點透視圖 - 高視平線效果



透視投影圖







三點透視投影圖 -

低視平線效果

