

10TH DAY

20TH DAY

30TH DAY

40TH DAY

50TH DAY

60TH DAY

Hygbičky:

AqY[Sf[Y[Bvlg S' V[fcbVgUW [fa
 7gcbWsf fZWW V aXfZW#) fZ UW fgdk
 fZWeg` Üai Vd[e S b'S` f i ZaeW S_ W
 [e i a' Vvlg`k Sbf Se [f fgd e fai SdVe
 fZWeg` Xb_ _ ad [Y f[^VWV [Yz; fe
 TafS` [US^ S_ WZV[S` fZge S` ` gge
 Ua_ Vè Xb_ fZW9dWV ZWae/eg` fiS` V
 S' fZae/Üai Vdiz 3` ` gge [V[USVè fZW
 VgdSf[a` aX[fe fXV fZWeg` Üai Vd[e
 S` S` ` gS^b'S` fZ
 fZWeg` Üai VdUS` dVSLZ gb fa %_ VdVè [
 ZWYZfz 3f fZWTWV [` [Y aX? Sk kag US`
 b'S` f kagdeWVe V[dVf`k [fZWea[ž4k g`k
 fZWÜai Vdi [^TWSe T[Y Se SV [` VdV`SfW

Activity:

H[UWfhS` 9aYZ bS[fW
 eg` Üai Vè eVWVbS^f[Vèž
 8adZ[fZVWÜai Vè i VdV
 Sek_ Ta^aXYdSf[fgVWž
 ;` Z[e VVfVdè ZWea_ W[Vè
 US^VW fZW_ l eg` eIž

Eg` Üai Vè eVWVe SdVdVSV[k
 ShS[ST W[fZWeZabež
 B'S` f kagdai ` eg` Üai VdS` V VdSi
 [fe badfS[f VVWk fW VSke` ? S] W
 egdVfa VjbaeW[f fa fZWeg` S` V
 i SfVd[f dVg`SdK`

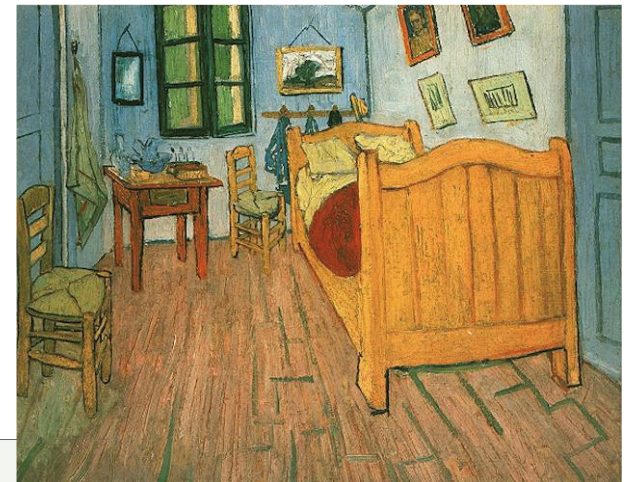


8fUk'mi fVXfcca°

H[UWfhS` 9aYZ bS[fVW fzdVWVhVb[a` e
aXZ[e TVWda_ [3dVēž

FZWa_ [S` faTWWf [fZWda_ [e
fZWTW, ea[V S` V e_ bVW [f egYVbfe
i Sd_fZ! Ua_ Xaf S` V eVWgdffkž: ` fZ[e
bS[f[Yf H[UW f eagYZf fa VjbdVē dVēf
fōS` cg[[°]ffk adVdS` V US^ ž

BVābVgeVW fa fZ[] fZSf ZWW[efadVW
fZWbVēbVWf[hVē aXZ[e TVWda_ ž;` XSuF
ZVXS[fZxg`k VVb[UfVW S da_ i ZaeWTSU
i S^ [e Sf S` S` YVž



4afZ [bS[f[Y S` V VdSi [Yf i ZSf kag
VWb[UF VVbW Ve gba` i ZSf kag eVWV S` V
i ZSf kag eVWVbW Ve a` i ZVdWkag SdW
efS` V[YĀ
FS] WfZWVēf~;` kagdTVWda_ ad
USeedaa_ f VdSi i ZSf kag eVWfdk[Y
fa fS] WsUag` faXfZWbae[f[a` aXfZW
Xgd [fgdVFa TVW[i [fZ! S^VdWkag ZShW
e] VVUZVW fZW S^ēf kag_ Sk i [eZ fa
VWb[UF`gef a` W[fW_ aXgd [fgdVfST VV

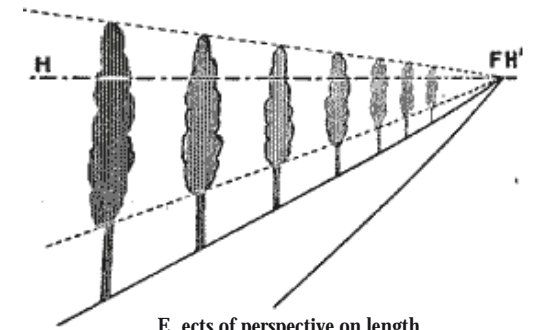
UZS[d VVē] f VVUfž
;XfZ[e eVW_ e faa V[XUg`f fdk Uabk[Y fZW
b[UfgdVaXHS` 9aYZie TVWda_ ž 8VWXdVWfa
geWfZWBVēbVWf[hVēZVWV fa dV_ [V kag aXS
XW Xg` VS_ W fS^VWV_ W fe aXVdSi [Y,
žfV_ e eVW_ e_ S^Vdi ZW fZVk SdV
XgdZVdSi Sk Xa_ kagž
žKag US` a` k VdSi i ZSf kag eVWV i Z[LZ
VWbW Ve a` Zai Z[YZ gb kagdVWVē SdW

9YVgY:

Df gWij Y



I ZW kag 'aa' Sf S V[efS' faTWVf [f eWV_ee_ S^Vd'fZS' fZWaTWVfe i Z[LZ SdU'aeVd'fa kagZ'fZWSd[ef i Za bS[fe adVdSi ei ZSf ZWewVd'fS] Vd' SUJag' f aX fZ[e VVVVf i Z[LZ [e US^W bVd'ebVd'f[hVd' ;' fZWbS[f[Y abbaefVW fZWd'YgdVd' [fZWad'Vd'g' V eWV_ 'Sd'Vd'fZS' fZWT'gW d'YgdM Z[LZ [e_ ah[Y fai Sd'e fZWT SU] aXfZWba_ z 3'eat fZM S^e eWV_ fa YW U'aeVd' faYVZVd' cg[fVd'_ b'k TWV'SgeWfZWT SU] aXfZWba_ eWV_ee_ S^Vd'fZS' fZWd'ba' fZ FZ[e d'WgUf[a' aTWke efd[Uf dg' Vd'i Z[LZ US' TWfcd' e'SfW [fa ↑ Vd'i Z[LZ_ VVf Sf S Vaf fZWd'S' [eZ[Y ba[fZ

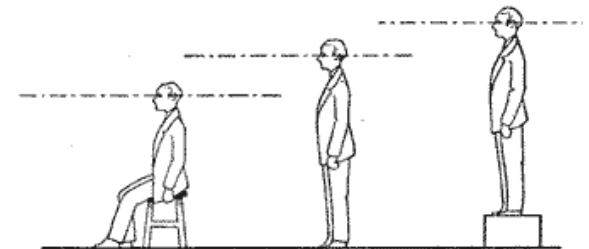


Effects of perspective on length, volume and scale.

Jub: c[\ UbXad'fgWij Y

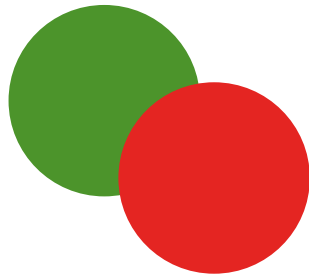
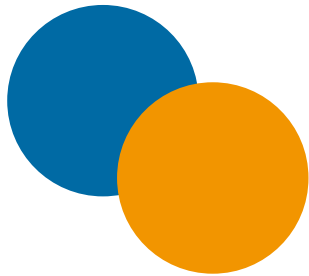
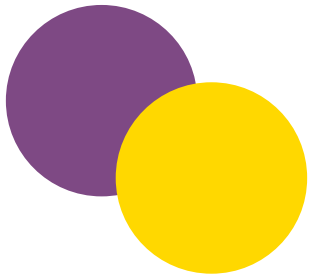
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Yd'g b aX d'YgdVd' i Za Sd'VeVd'fW Sd'g' V fZWefahW ZW_ gef ZShVefaaV gbZ'fZ[e VVVVf [e Xag' V [S 'Sd'W g_ TVd'aXZ[e bS[f[Yel S' V [fY[hVd' fZW_ S' VVVVf aX VYfcd'ad/[Sck VVd'fZz Fck fa d' V fZWd'S' [eZ[Y ↑ Vd'/↑ Vd' aXbVd'ebVd'f[hVd'i' fZWbS[f[Y STahW efd'f[Y Xba_ fZW_ S[hS' [eZ[Y ba[fZ

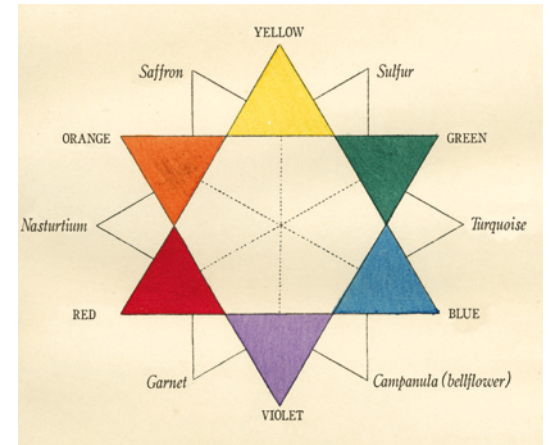


height of the horizon varies with the position of the observer.

8|gwy YfWci fg°



; fZW#fz UW fgdk eU[W f]efe V[eLahVdW fZSf
 fi a V[XVdVf La 'agde Lag V TWefdV YfZWVW
 i ZW fZVki VdWb'SUW e[VWTK e[VVZ&advjS_ Ž
 b'VVS dW Ūai Vd'Ų] WfZWbabbk SbbVŠde TqYZfVd
 a` S YdVW TSUJ Ydag` V fZS` a` S kw'ai a` VZ
 BS[fVde Ų] WH[UW f hS` 9aYZ geW fZ[e V[eLaz
 hVdk [adVdifa UdVŠfWefca` YVdLa 'agdVŠVUfež



JUb: c| \ UbXWci fg

HS` 9aYZ i S` fW fa TWLa_ WS La 'agd[ef bS[fVd fZSf [e fa eSk
 S bS[fVdi Za eWVYe fa VjbdVde Z_ eVXfZdgYZ La 'agdSe_ gUZ
 Se fZdagYZ VdSi [Yž

Gb fa fZWSYWaX%4 HS` 9aYZ bS[fW
 i [fZ VSd] La 'agdež 6gd` Y fZWSe f Xgd
 kVŠde aXZ[e ŲXVi Z[LZ ZWbWf [8dS` UW
 ZWfdVW fa bgf Se_ gUZ ŲYZf Se baeelT W
 [fa Z[e bS[f] Yž: [e YaS'i Se fa VjbdVde
 [La 'agdfZWW_ af[a` e ZWVd S' Vi Z[LZ
 ZW S' fW bVab'W Za 'aa] W Sf Z[e
 bS[f] Ye fa XWVfaaz4k eWfŲ Y [fZW

eagfZ aX8dS` UM[#* *† ZWShWZ[eVXfZW
 _ VŠ` e fa bS[f g` VVdS efd` YVde g` † W ST Ų Y
 Z[fa SffS[i ZSf ZWVUS'WV fZWZ[YZ kW'ai
 ` afVZ&adHS` 9aYZi La 'agde i VdVŲ] W_ ge[US^
 ` afVd [fZ i Z[LZ ZWlag V La_ baeVhVd fST W
 ek_ bZa` [Vž

J|bWb|ghm|W|kcf|b|X|m

H[UW f hS` 9aYZ Yaf gb VsdKz 3XfWdVsf[Yf
 S` V Vd[] [Y S Ugb aXLaXWV ZWbGf a`
 Z[e i ad] _ S` ie UafZVh fZW eW agf Z[e
 _ Sfv[S`e, Z[e fgTVh Z[e TdgeZVh Z[e VSeW
 S` V Z[e US` hSeVz: W| Vbf S`^fZVW_ Sfv[S`e
 [S USeM Z[LZ ZWJag`V USck a` Z[e TSU] †
 S T[f †] WS eSfLZW`
 : W| Se cg[fM [^f Y fa i S`] gb fa \$`] _ [
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 i [fZ i ZSf ZWZSV Xag` V| ZWeV gb Z[e

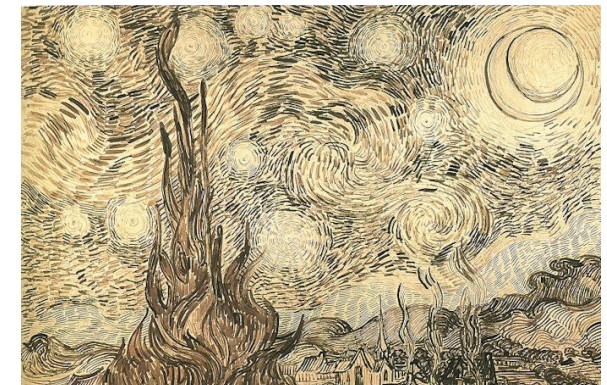


bVebVUf[hWXS_ W VdW S bdVScSfack
 e] WUZ† fZW USd[VW agf SeV[Ve aXV[XUg`f
 _ WfS^US`Ug`Sf[a` e fa i ad] agf fZWTVh
 Ua`agdSeeaU[Sf[a` ež
 A` UZWV Se dVSVk ZWTWV` bS[f[Y †] W
 S_ S` [SU`adZagde a` W V† efabb[Y a` k fa
 Vd[] S` V Vsf i ZSf ZWZSV TdgYZf i [fZ Z_ ž
 : W_ [YZf bdaVgUWeVhVd`US` hSeV S` V
 VdSi [Ye[S VSk S`a` W fS[] [Y a` k fa
 fZWbVSeS` fe S` V fZWbVab`W Za bSeeW
 Tkž: WdVgd W Za_ Wsf` [YZfS`^ aXW
 VY ZSgefWž: WsfWsf fZWdVfSgd` f
 S` V i W f fa TW` Sfv`ea_ W_ Vh SXVd
 Ua` f[g[Y fa bS[f[fa fZW [YZfZl ZW S`^



fZW adV i Se SeVWb H[UW f bS[fW agf
 aXVaade fa USbfgdW [YZf VVWVf† ad[Z[e
 efgV[a [adVd fa UdVfWfZWVWVre i Z[LZ
 i [V addS[ZSV bdVWV fW Z_ Xa_
 aTfS[[Y Vgd` Y fZWWSkž
 3f fZWdVfSgd` f† ZWUZSffW i [fZ Z[e
 XdV Vel egUZ Se Dag† fZWbaef_ S` [
 3dV† ad9gefShWDSHagj [3ghVhžegč
 A [eVž: WS`ea †] W fa e[f [USXV S` V
 dVfSgd` fe fa i d[fW`WVd fa Z[e XdV Ve
 S` V Z[e Td†fZVh

H[UW f hS` 9aYZ i Se]` ai` XadZ[e
 YdVsf USbSU[fk fa i ad] ž: [e bdaXVee[a`
 Se S bS[fVd faa] gb S`^aXZ[e f_ Vž
 ; VVWV ZWV[V` afZ[Y Tgf bdaYdVee
 S`a` Y S` Sdf†ef[UdaSV i Z[LZ ZWJag`V
 eWVUvSdK† efdVUZ[Y agf SZVSV aXZ_ ž
 FZVdM VdV a Za [VSk eadi WV W Ve
 XadZ_ ž: [e XdVf_ W Se f_ WebWf
 i ad] [Y- bS[f[Y S` V VdSi [Y i VdVZ[e
 a` k bSee[a` ež



8|gWj YfWci fg UWj lIm

@ai fZSf kag ZShW[eUahWdW fZWeWdWfe
aXLa_ b^W_ WfSck La^agde!
GeWfZWbS[f[YTWai fa Ø^ [fZWdYZf
La^agde~

