

MODEL SUMMARY

1. LANDMARKS

Proposed Changes:

- Ear Landmarks are not used for analysis or anything post curve-finding- should we remove them from the final model summary?
- Order of landmarks for more natural placement (top to bottom)

2. CURVES

Proposed Changes:

- Order (top to bottom) except mid-line at end
- "lower eye socket" becomes "lower eye lid"
- "cheek-eye" becomes "eye temple"
- "cheek-nose" becomes "cheek bone"
- "philtrum lip" becomes "cupidbow" *need anatomical name for cupid bow
- "mid-line lip" to "labial seal"
- "cheek-lip" becomes "cheek"
- "mid-line nasal profile" becomes "mid-line nose"

3. MESH

Proposed Changes:

- upper face 1 becomes temple
- upper face 2 becomes brow
- upper face 3 becomes inner socket nasal brow * need anatom name
- upper mid-face becomes upper cheek
- mid-face becomes mid-cheek
- lower face becomes lower cheek

TABLE 1. Landmarks (face\$lmks)

Lmk abv.	Landmark Name	Region	Side	Definition
n	<i>nasion</i>	nose	middle	the point where the brow ridge curves meet the superior extension of the mid-line nasal profile curve
se	<i>sellion</i>	nose	middle	the point of maximal curvature of the mid-line nasal profile curve at its nasal root end
en	<i>endocanthion</i>	eye	left/right	the crossing of the medial ends of the lower and upper eye lid curves
ex	<i>exocanthion</i>	eye	left/right	the crossing of the lateral ends of the lower and upper eye lid curves
pn	<i>pronasale</i>	nose	middle	the crossing of the mid-line nasal profile and alar curves
ac	<i>alare crest</i>	nose	left/right	the point of maximal curvature on the alar curve where this meets the paranasal area
sn	<i>subnasle</i>	nose	middle	the point of maximal curvature on the mid-line curve at the base of the nasal septum
ls	<i>labiale superius</i>	middle	middle	the crossing of the upper lip and mid-line philtrum curves
cph	<i>crista philtri</i>	lips	left/right	the crossing of the upper lip and philtrum ridge curves
ch	<i>cheilion</i>	lips	left/right	the point of maximal curvature at the lateral end of the labial seal curve
st	<i>stomion</i>	lips	middle	the crossing of the mid-line upper lip and labial seal curves
li	<i>labiale inferius</i>	lips	middle	the crossing of the lower lip and mid-line lower lip curves
sl	<i>sublabiale</i>	chin	middle	the point of maximal curvature in the mid-line curve as it passes through the <i>mentolabial sulcus</i>
gn	<i>gnathion</i>	chin	middle	the crossing of the mid-line chin and mandible curves
t	<i>tragion</i>	ear	left/right	the point of maximal curvature at the superior end of the tragus curve
oi	<i>otobasion inferius</i>	ear	left/right	the final point at the preauricular end of the ear rim curve

TABLE 2. Curves (face\$curves)

Curve Name	Side	Definition
<i>brow ridge</i>	left/right	ridge points at the supra-orbital region of the forehead
<i>lower eye lid</i>	left/right	the superior and inferior edges of the palpebral fissure
<i>eye temple</i>	left/right	points from <i>exocanthion</i> to <i>tragion</i>
<i>nasal root</i>	left/right	points from <i>sellion</i> to <i>endocanthion</i>
<i>nasal boundary</i>	left/right	ridge points from <i>endocanthion</i> to <i>alare crest</i>
<i>nasal bridge</i>	left/right	ridge points on the lateral extension of the nasal cartilage
<i>nasal base</i>	left/right	ridge points from aL to sn
<i>cheek bone</i>	left/right	ridge points from aL to <i>tragion</i>
<i>nasolabial</i>	left/right	ridge points lateral to the mid-line philtrum <i>aL</i> to <i>ch</i>
<i>philtrum ridge</i>	left/right	ridge points immediately lateral to the mid-line philtrum <i>sn</i> to <i>cph</i>
<i>cupid bow</i>	left/right	ridge points immediately lateral to <i>ls</i> to <i>cph</i>
<i>upper lip</i>	left/right	ridge points along the upper lip
<i>lower lip</i>	left/right	ridge points along the lower lip
<i>labial seal</i>	left/right	rut points where the upper and lower lips meet
<i>cheek</i>	left/right	ridge points from <i>ch</i> to <i>oi</i>
<i>mandible</i>	left/right	ridge points across the entire mandible (lower jaw)
<i>mid-line nasal root</i>	middle	ridge points from <i>n</i> to <i>se</i>
<i>mid-line nose</i>	middle	ridge points from the <i>se</i> along the dorsum of the nose to the <i>pn</i>
<i>mid-line columella</i>	middle	ridge points from <i>pn</i> to <i>sn</i>
<i>mid-line philtral</i>	middle	rut points between the columella and the upper lip
<i>mid-line upper lip</i>	middle	the continuation of the philtrum curve to the closest point on the labial seal curve
<i>mid-line lower lip</i>	middle	the continuation of the mid-line upper lip curve to the closest point on the lower lip curve
<i>mid-line mentolabial</i>	middle	the continuation of the mid-line lower lip curve to the closest point of the <i>mentolabial sulcus</i> (rut)
<i>mid-line chin</i>	middle	the continuation of the mid-line mentolabial curve to the closest point on the mandible curve

TABLE 3. Mesh (face\$mesh)

Mesh Name
<i>temple</i>
<i>brow</i>
<i>inner socket nasal brow</i>
<i>cheek bone</i>
<i>nose</i>
<i>mid-cheek</i>
<i>philtrum</i>
<i>upper lip</i>
<i>lower lip</i>
<i>lower cheek</i>