ElementSets from MeshConnectivity

Faces, VertexOneRing, OrientedOppositeFaces, OppositeVertices, NeighborVerticesInFace, OrientedVertices from Neighborhoods(M)

$$\begin{aligned} M: & \operatorname{FaceMesh} \\ x_i \in \mathbb{R}^3 \\ V.E.F. & = \operatorname{ElementSets}(M) \\ & \operatorname{VertexNormal}(i) = \left(\sum_{l \in l \text{ onto } 0} \frac{(x_j - x_i) \times (x_k - x_i)}{\|x_j - x_i\|^2 \|x_k - x_i\|^2} \right) & \text{where } j, k = \operatorname{NeighborVerticesInFace}(f, i) \\ & \theta(i, f) = \operatorname{arccos}\left(\frac{(x_j - x_i) \cdot (x_k - x_i)}{\|x_j - x_i\|^2 \|x_k - x_i\|^2} \right) & \text{where } i \in V \\ & f \in F \\ & i, k = \operatorname{NeighborVerticesInFace}(f, i) \\ & \operatorname{arca}(f) = \frac{1}{2} \|[x_j - x_i) \times (x_k - x_i)\| \\ & \text{where } \\ & f \in F \\ & i, k = \operatorname{OrientedVertices}(f) \\ & N(f) = \frac{(x_j - x_i) \times (x_k - x_i)}{2\operatorname{arca}(f)} \\ & \text{where } \\ & f \in F \\ & i, k = \operatorname{OrientedVertices}(f) \\ & \mathbb{N}(i, i) = \operatorname{Bir}(x_j - x_i) \times (x_k - x_i) \\ & \text{where } \\ & f \in F \\ & i, k = \operatorname{OrientedVertices}(f) \\ & \mathbb{N}(i, j) = \operatorname{adm2}(c \cdot (n_k \cdot x_k), n_1 \cdot n_2) \\ & \text{where } \\ & i, j \in V \\ & \theta(i, j) = \operatorname{adm2}(c \cdot (n_k \cdot x_k), n_1 \cdot n_2) \\ & \text{where } \\ & i, j \in V \\ & \theta(x_j) = \operatorname{OrientedVertices}(i, j) \\ & n_i = \mathbb{N}(f_i) \\ & n_i = \mathbb{N}(f_i) \\ & n_i = \mathbb{N}(f_i) \\ & \text{ond } \\ & \text{in } \| \| \| x_i - x_k \| \times (x_i - x_k) \| \\ & \text{ond } \\ & \text{in } \| \| \| x_i - x_k \| \times (x_i - x_k) \| \\ & \text{SN}(i) = \frac{2}{2} \left(\sum_{i \in \operatorname{NeuconSulego}(i)} \int_{i_i} (x_i - x_i) \right) \\ & \text{where } i \in V \\ & \operatorname{BN}(i) = \frac{1}{2} \left(\sum_{i \in \operatorname{NeuconSulego}(i)} \int_{i_i} (x_i - x_i) \right) \\ & \text{where } i \in V \\ & \operatorname{BN}(i) = \frac{1}{2} \left(\sum_{i \in \operatorname{NeuconSulego}(i)} \int_{i_i} (x_i - x_i) \right) \\ & \text{where } i \in V \\ & \operatorname{BN}(i) = \frac{1}{2} \left(\sum_{i \in \operatorname{NeuconSulego}(i)} \int_{i_i} (x_i - x_i) \right) \\ & \text{where } i \in V \\ & \operatorname{BN}(i) = \frac{1}{2} \left(\sum_{i \in \operatorname{NeuconSulego}(i)} \int_{i_i} (x_i - x_i) \right) \\ & \text{where } i \in V \\ \end{aligned}$$