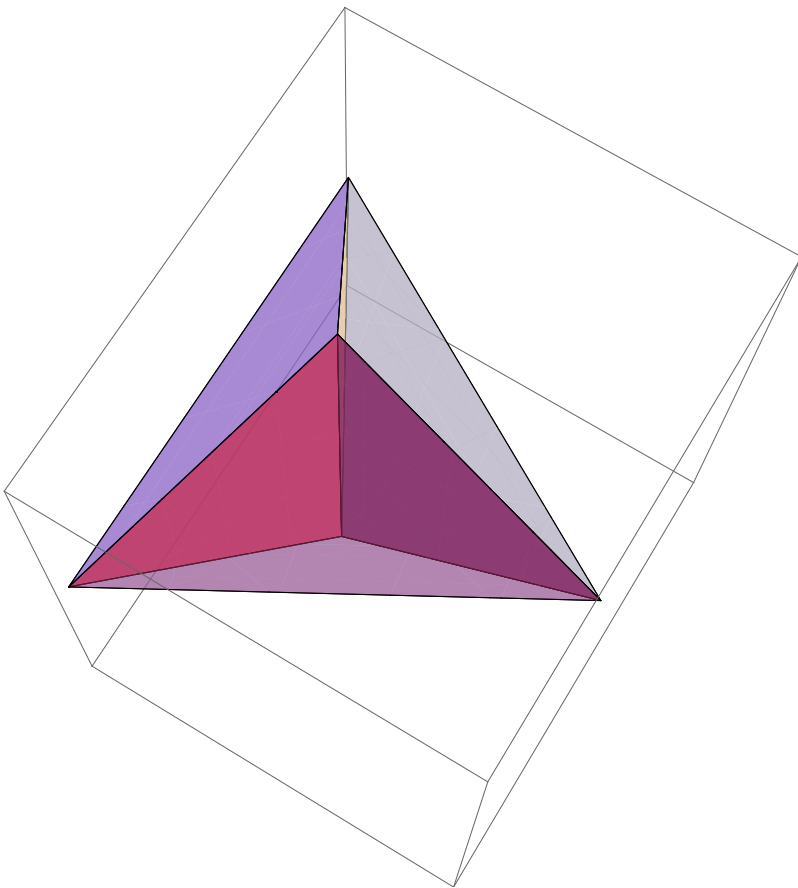


Pensieve Header: Programs to generate pictures of the Pachner moves.

```
{v1, v2, v3} = {Re[#], Im[#], 0} & /@ Table[E^(2 Pi I k / 3), {k, 0, 2}]  
  
{ {1, 0, 0}, { -1/2, sqrt(3)/2, 0}, { -1/2, -sqrt(3)/2, 0} }  
  
n = {0, 0, 1}; s = {0, 0, -1};  
  
P2 = {Simplex[n, v1, v2, v3], Simplex[s, v1, v2, v3]};  
P3 = {Simplex[n, s, v2, v3], Simplex[n, s, v3, v1], Simplex[n, s, v1, v2]};  
  
Draw3D[s_Simplex] := Table[  
  Polygon[List @@ Delete[s, k]],  
  {k, 1, 4}  
];  
Draw3D[l_List] := Graphics3D[{  
  Opacity[0.5],  
  Draw3D /@ l  
}]  
  
Draw3D[P3]
```



```

ShrinkTo[p_, s_Simplex] := Module[
  {b = (1 - p) Mean[List @@ s]},
  Expand[p # + b] & /@ s
];
ShrinkTo[p_, expr_] := expr /. s_Simplex => ShrinkTo[p, s]

{
  Draw3D[ShrinkTo[0.7, P2]],
  Draw3D[ShrinkTo[0.6, P3]]
}

```

