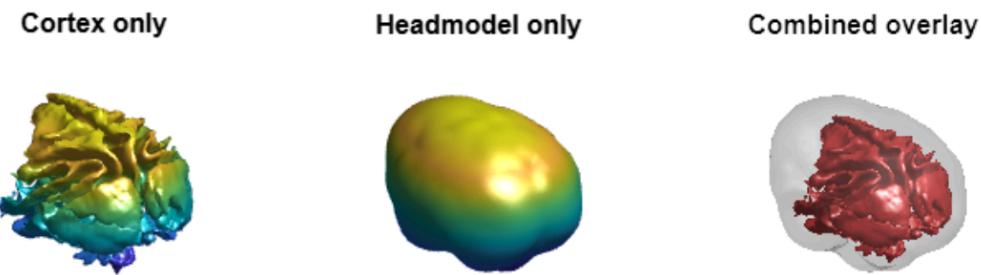
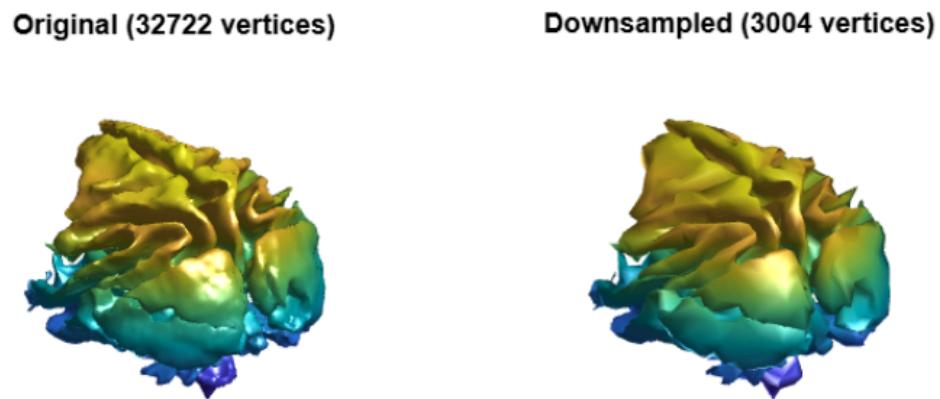


1. Original cortex, headmodel



The colouring in the plot is not atlas-based — it is simply MATLAB's lighting-based shading.

2. Comparison with downsampling



Summary table

```
Original cortex: 32722 vertices, 65436 faces
Downsampling with reduction factor = 0.0917
Downsampled cortex: 3004 vertices, 5998 faces
Mapping downsampled vertices back to original mesh...
```

```
==== Global downsampling summary ====
Original vertices: 32722
Kept vertices: 3004 (9.18%%)
Removed vertices: 29718 (90.82%%)
```

Top 10 largest labels (by vertex count) :

LabelID	OrigN	KeptN	Removed%%
Label_0	1748	155	91.13
Label_14433500	1346	119	91.16
Label_9221140	1291	124	90.40
Label_1351760	1159	107	90.77
Label_9182740	1093	103	90.58
Label_14474380	1068	104	90.26
Label_1316060	1047	86	91.79
Label_3302560	866	74	91.45
Label_11832480	809	70	91.35
Label_7874740	780	85	89.10

Since this is monkey data, the .annot labels don't map to standard human atlas names. The "Unknown" / Label_xxx entries simply reflect raw monkey annotation IDs. I think it needs a non-human atlas, like a macaque, to mark the corresponding labels.