Dissociation in neuronal encoding of object versus surface motion in the primate brain

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Summary of the data

This repository contains data, codes to reproduce the main results of the paper.
For example, **cellData_sua.mat** file contains spike count information of 115 single units across stimulus conditions and trials. To read the responses of unit# 86,

```
>> cellData_sua(86)

ans =

  struct with fields:

       file_id: 'p190516'
       unit_id: 1
        rf_pix: [-72 -286]
       respMtx: [7×41 double]
     condition: {6×1 cell}
         anova: [2×5 double]
   dir_tuning: [8×5 double]
       DI_base: [0.9167 0.5263 1 0.8889 0.5333]
```

If you want to reproduce the findings:

1) Download the “Bigelow2023_CB” folder which contains ‘analysisCode’ and ‘dataFiles’
2) Open **MATLAB**, then move to the ‘Bigelow2023_CB > analysisCode’ folder
3) Run make_FigureXX.m code

Conditions for using the data

If you publish any work using the data, please cite the publication above (Bigelow et al., 2023), and also cite the data set using the following:

Bigelow, Anthony; Kim, Taekjun; Namima, Tomoyuki; Bair, Wyeth; Pasupathy, Anitha (2022), “Dataset: Dissociation in neuronal encoding of object versus surface motion in the primate brain”, Mendeley Data, V1, doi: 10.17632/cs76nk38zj.1