









# Polychrony detection in raster plots

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## Authors

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- **Laurent U Perrinet** · <https://laurentperrinet.github.io/>  
 [0000-0002-9536-010X](#) ·  [laurentperrinet](#) ·  [laurentperrinet](#)  
Institut de Neurosciences de la Timone, CNRS / Aix-Marseille Université · Funded by Grant XXXXXXXX
- **John Doe**  
 [XXXX-XXXX-XXXX-XXXX](#) ·  [johndoe](#) ·  [johndoe](#)  
Department of Something, University of Whatever · Funded by Grant XXXXXXXX
- **Jane Roe**  
 [XXXX-XXXX-XXXX-XXXX](#) ·  [janeroe](#)  
Department of Something, University of Whatever; Department of Whatever, University of Something

## Abstract

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surrogate gradients

F Zenke and S Ganguli, Neural Computation 30.6 (2018), pp. 1514-1541.

G Bellec et al., arXiv:1803.09574 [cs, q-bio] (2018) arXiv: 1803.09574.

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## cortical songs

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Ikegaya Y, Aaron G, Cossart R, Aronov D, Lampl I, Ferster D, Yuste R. 2004. Synfire chains and cortical songs: temporal modules of cortical activity. Science (New York, NY) 304:559–564. [\[1\]](#)

Gan were introduced in [\[2\]](#) see also [\[3\]](#) [\[4\]](#) [\[5\]](#) [\[6\]](#) [\[7\]](#)

```
import numpy as np
print(f'{np.pi=}')
```

```
np.pi=3.141592653589793
```

in [\[natural?\]](#), we generate raster plots from natural images

A natural documentary, Planet Earth with David Attenborough

```
filename = './nat_inputs/PlanetEarth.mp4' # filename of the movie
```

## References

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