image: 600x400x3

implementation: 04\_Mog\_impl.py

|  |
| --- |
| 20.279019117355347 |
| 20.009904384613037 |
| 20.1321542263031 |
| 19.624714851379395 |
| 19.849933862686157 |
| 19.953917026519775 |

implementation: using np.nditer()

|  |
| --- |
| 58.526954650878906 |
| 58.29088878631592 |
| 58.1470468044281 |
| 57.75170540809631 |
| 58.91218018531799 |

implementation: using np.ndindex()

|  |
| --- |
| 19.888588905334473 |
| 19.836508989334106 |
| 19.92132544517517 |
| 20.303245067596436 |
| 20.184700965881348 |
| 20.02846121788025 |

implementation: using float32 instead of float64

commit: e7f26f52468bba74bd1808de02eaf320164e188e

|  |
| --- |
| 22.383992910385132 |
| 22.061100482940674 |
| 21.797725439071655 |
| 21.82249140739441 |
| 22.048667669296265 |
| 22.25205945968628 |

implementation: using int for some constant

commit: 2d584fd5d1b9c8bd690f1d4fe258aaaf8acb9e48

|  |
| --- |
| 20.240018129348755 |
| 20.3268563747406 |
| 20.140850067138672 |
| 20.256418704986572 |
| 20.184990406036377 |
| 20.41510319709778 |

implementation: use only distance

|  |
| --- |
| 4.142091274261475 |
| 4.386620283126831 |
| 4.0766541957855225 |
| 4.1128294467926025 |
| 4.46052360534668 |
| 4.086043834686279 |

implementation: use numpy einsum distance

|  |
| --- |
| 3.6927168369293213 |
| 3.215099573135376 |
| 3.1615333557128906 |
| 3.1853103637695312 |
| 3.4759979248046875 |
| 3.3286538124084473 |

implementation: without for loop

commit: 9c27b546b50ffe5793bdfec73a49c1a837cef5cd

|  |
| --- |
| 0.1869971752166748 |
| 0.12697458267211914 |
| 0.1254880428314209 |
| 0.12796759605407715 |
| 0.12598490715026855 |
| 0.1254885196685791 |