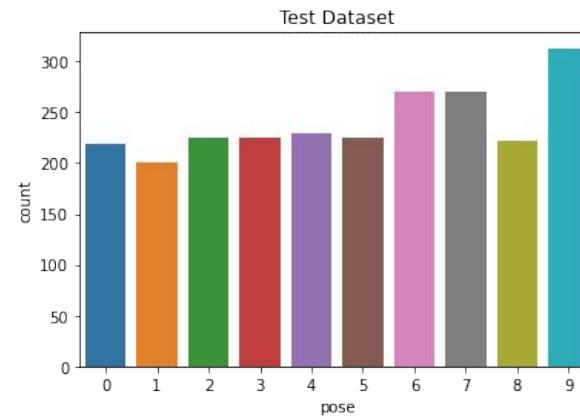
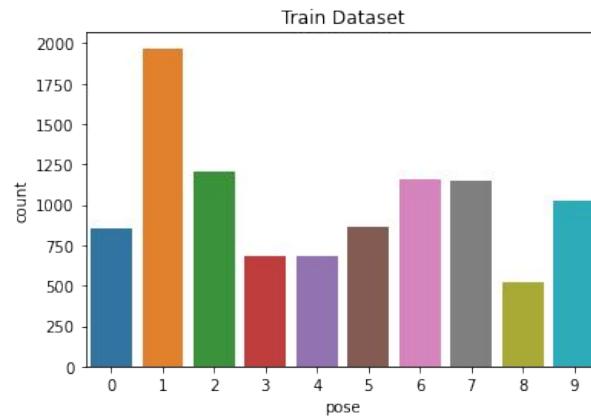


# FSR Chair Pose Pattern

Data Visualization

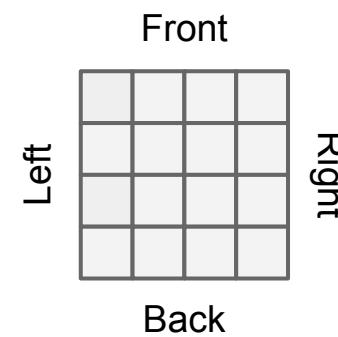
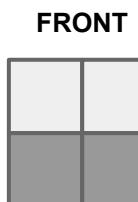
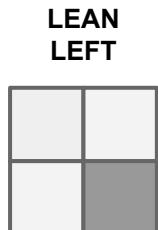
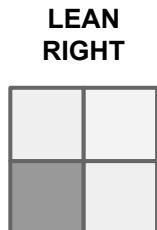
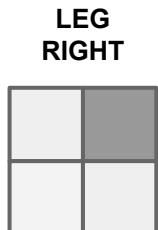
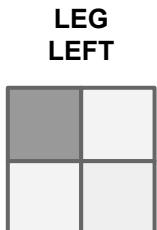
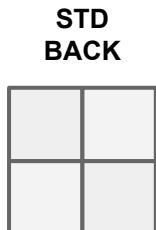
# Summary

2x2 센서의 구분 가능한 자세를 확인하기 위한 패턴 분석 자료입니다. (FSR 자세 학습 데이터: 2019~2020)



```
category = {  
    0 : 'FRONT',  
    1 : 'STD_BACK',  
    2 : 'LEAN_FRONT',  
    3 : 'LEAN_LEFT',  
    4 : 'LEAN_RIGHT',  
    5 : 'LEAN_BACK',  
    6 : 'LEG_RIGHT',  
    7 : 'LEG_LEFT',  
    8 : 'LEG_CROSSED',  
    9 : 'LEG_SPREAD',  
}
```

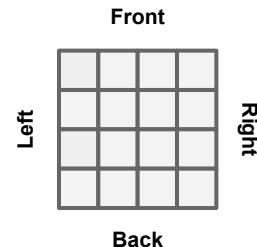
2x2 데이터 분포에서 아래 6개 자세에 대해서는 어느정도 일관된 패턴을 보여줍니다.



# 자세별 데이터 패턴 평균 (4x4)

Front (857), STD\_BACK (1969),

LEAN\_FRONT (1209), LEAN\_LEFT (681), LEAN\_RIGHT (681), LEAN\_BACK (867),  
LEG\_RIGHT (1162), LEG\_LEFT (1150), LEG\_CROSSED (525), LEG\_SPREAD (1025)



FRONT			
2339	2440	2529	2092
2339	2590	2533	2690
1237	1132	1443	1715
216	192	184	177

STD_BACK			
1855	1872	2125	2028
1975	1968	1856	2257
1727	1891	1892	2170
2088	2035	2131	2025

LEAN_FRONT			
2002	1905	2148	1967
2057	2080	2027	2411
1708	1523	1817	2238
1389	1320	1476	1509

LEAN_LEFT			
2107	2026	2019	1519
2061	2118	1834	2210
1741	1314	1090	1814
2367	1916	1252	1431

LEAN_RIGHT			
1923	1889	2224	1764
1852	1924	2068	2462
1041	779	1789	2303
1077	893	2197	2555

LEAN_BACK			
2020	2082	2238	1812
1979	2188	2133	2367
1111	1236	1527	1649
259	234	219	262

LEG_RIGHT			
2008	2304	848	309
1960	2156	590	624
1464	1203	1877	2085
1852	1636	2029	2143

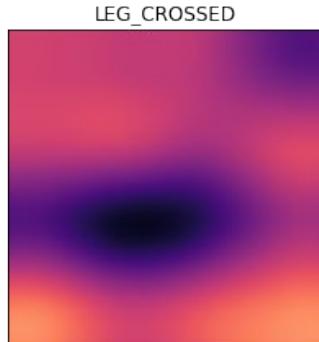
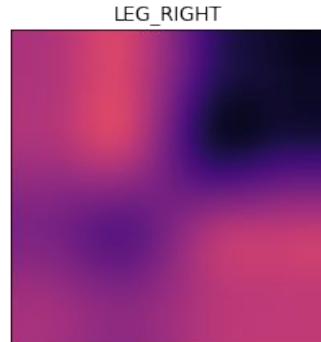
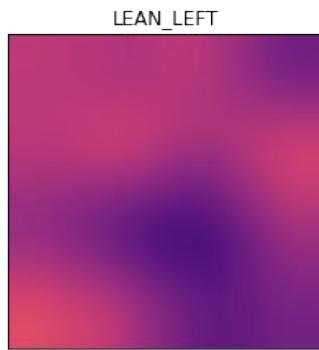
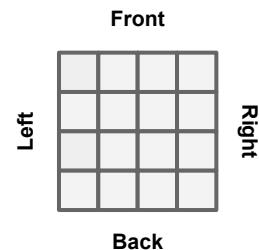
LEG_LEFT			
234	437	2343	1682
421	747	2059	2255
1666	1446	1658	2072
1965	1773	1715	1838

LEG_CROSSED			
2328	2192	2033	1277
2257	2238	1874	2380
1027	271	687	1795
2887	2154	2538	3001

LEG_SPREAD			
1182	799	1040	546
1354	1059	1070	1912
1317	557	1169	2092
2568	1947	2293	2682

# 자세별 데이터 패턴 평균 (4x4) — Bicubic Interpolation

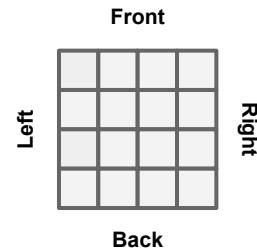
Front (857), STD\_BACK (1969),  
LEAN\_FRONT (1209), LEAN\_LEFT (681), LEAN\_RIGHT (681), LEAN\_BACK (867),  
LEG\_RIGHT (1162), LEG\_LEFT (1150), LEG\_CROSSED (525), LEG\_SPREAD (1025)



# 자세별 데이터 패턴 평균 (2x2)

Front (219), STD\_BACK (201),

LEAN\_FRONT (225), LEAN\_LEFT (225), LEAN\_RIGHT (230), LEAN\_BACK (225),  
LEG\_RIGHT (270), LEG\_LEFT (270), LEG\_CROSSED (222), LEG\_SPREAD (313)



FRONT

2427	2461
694	880

STD\_BACK

1917	2067
1935	2055

LEAN\_FRONT

2011	2139
1485	1760

LEAN\_LEFT

2078	1895
1834	1397

LEAN\_RIGHT

1897	2130
947	2211

LEAN\_BACK

2068	2138
710	914

LEG\_RIGHT

2107	593
1539	2034

LEG\_LEFT

460	2085
1712	1821

LEG\_CROSSED

2254	1891
1585	2005

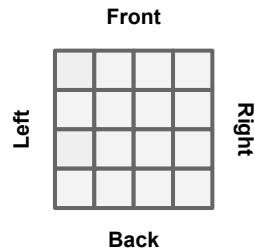
LEG\_SPREAD

1099	1142
1597	2059

# 자세별 데이터 패턴 평균 (2x2) — Bicubic Interpolation

Front (219), STD\_BACK (201),

LEAN\_FRONT (225), LEAN\_LEFT (225), LEAN\_RIGHT (230), LEAN\_BACK (225),  
LEG\_RIGHT (270), LEG\_LEFT (270), LEG\_CROSSED (222), LEG\_SPREAD (313)



FRONT



STD\_BACK



LEAN\_FRONT



LEAN\_LEFT



LEAN\_RIGHT



LEAN\_BACK



LEG\_RIGHT



LEG\_LEFT



LEG\_CROSSED

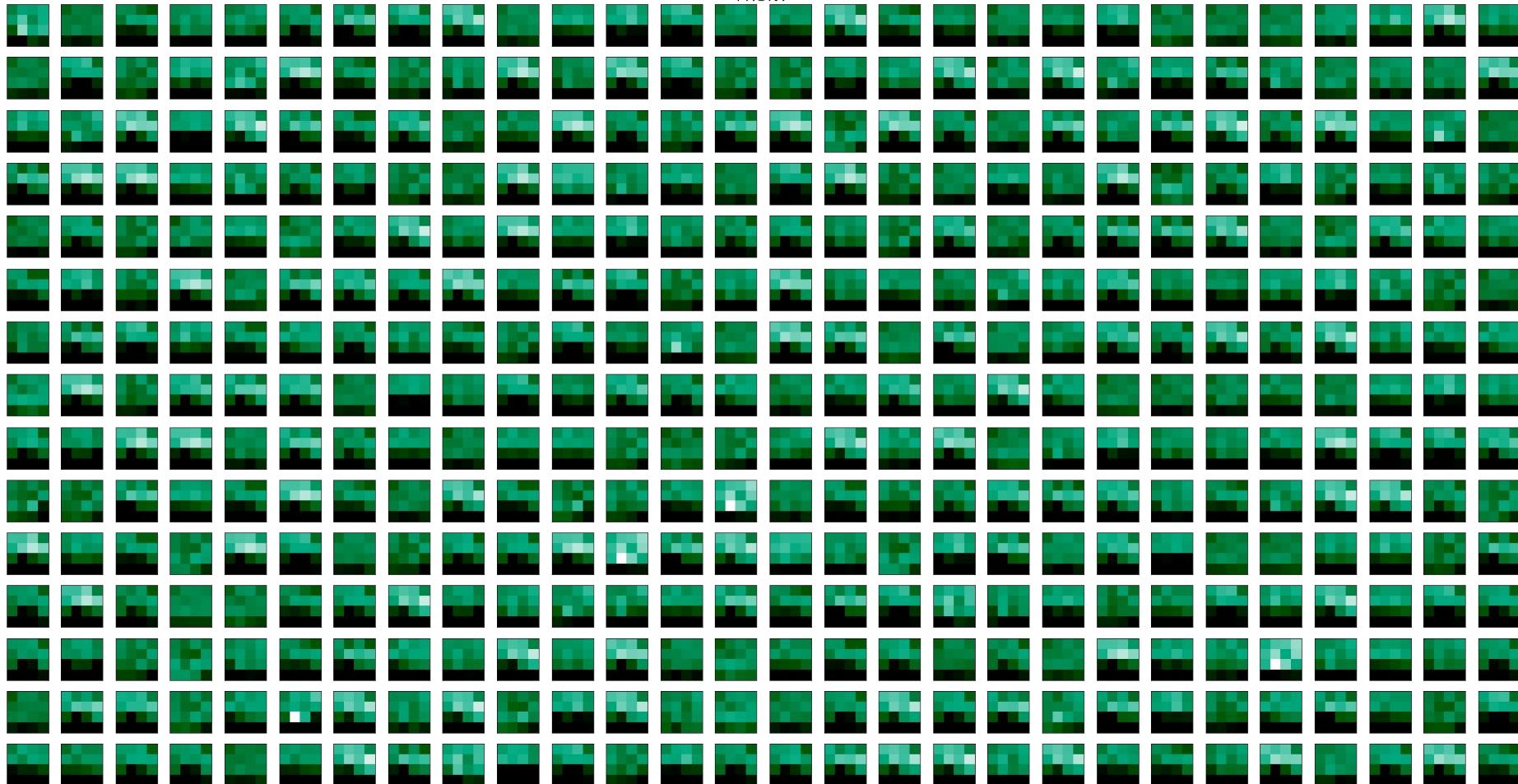


LEG\_SPREAD

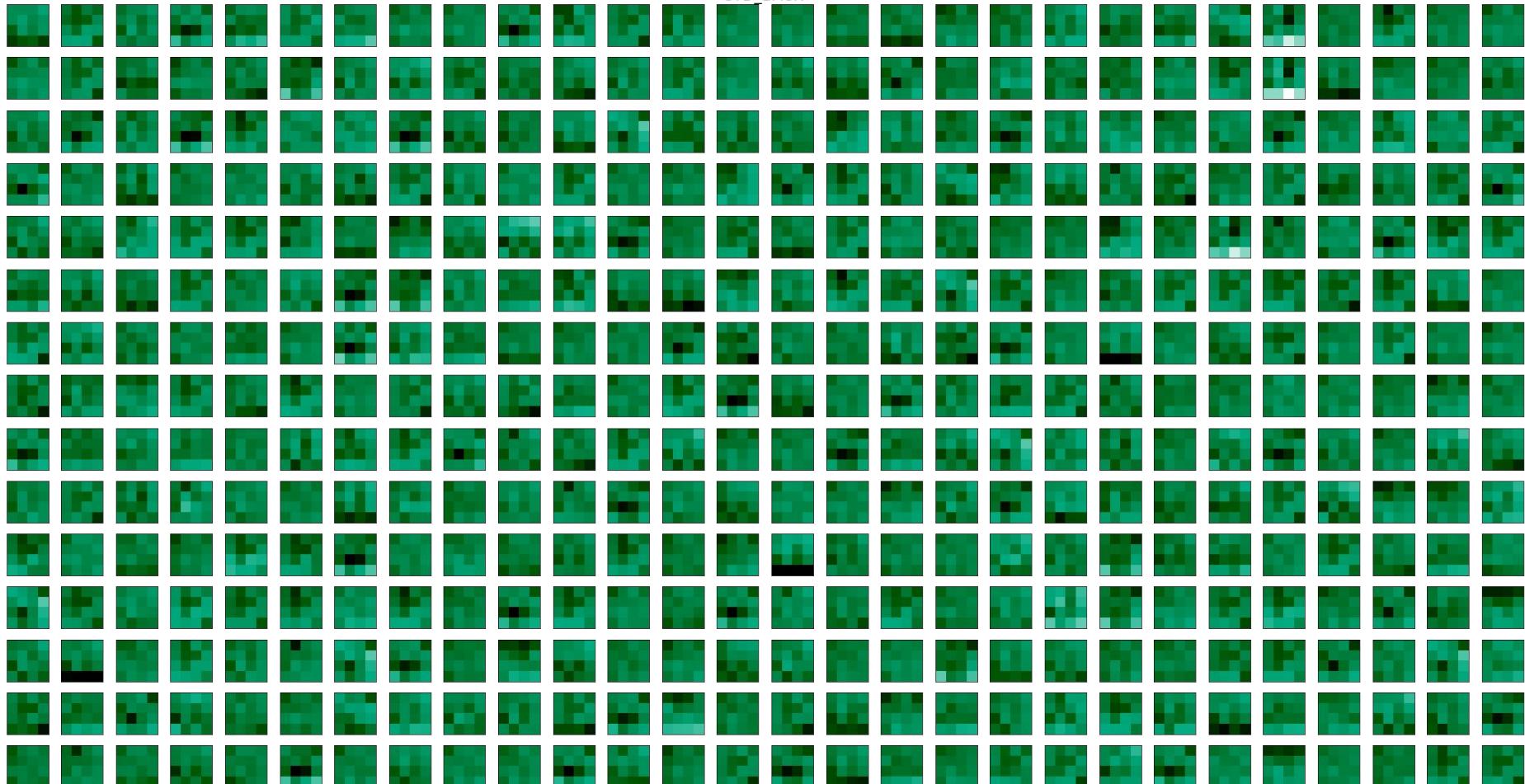


# 4x4 자세별 데이터 분포 (학습 데이터)

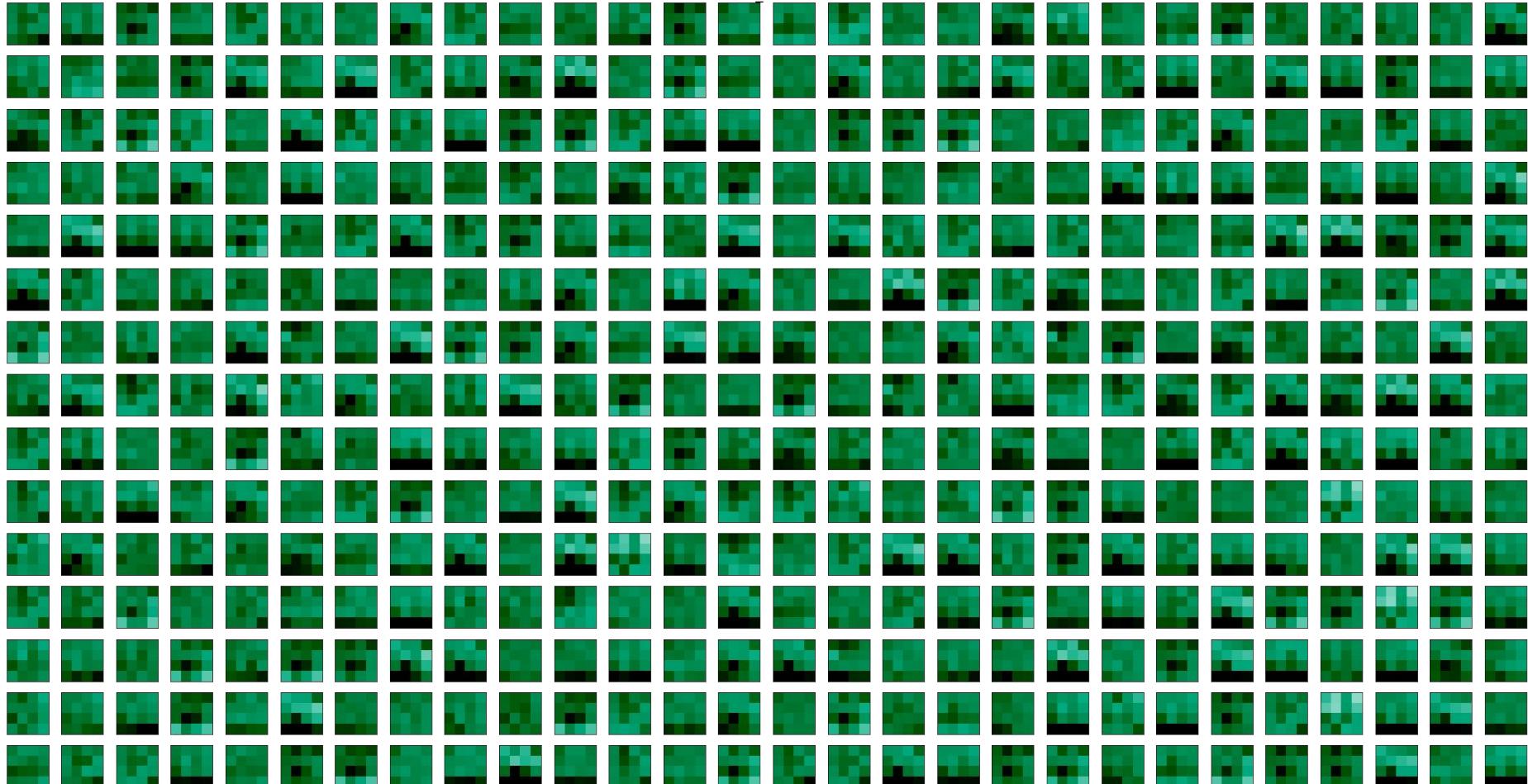
FRONT



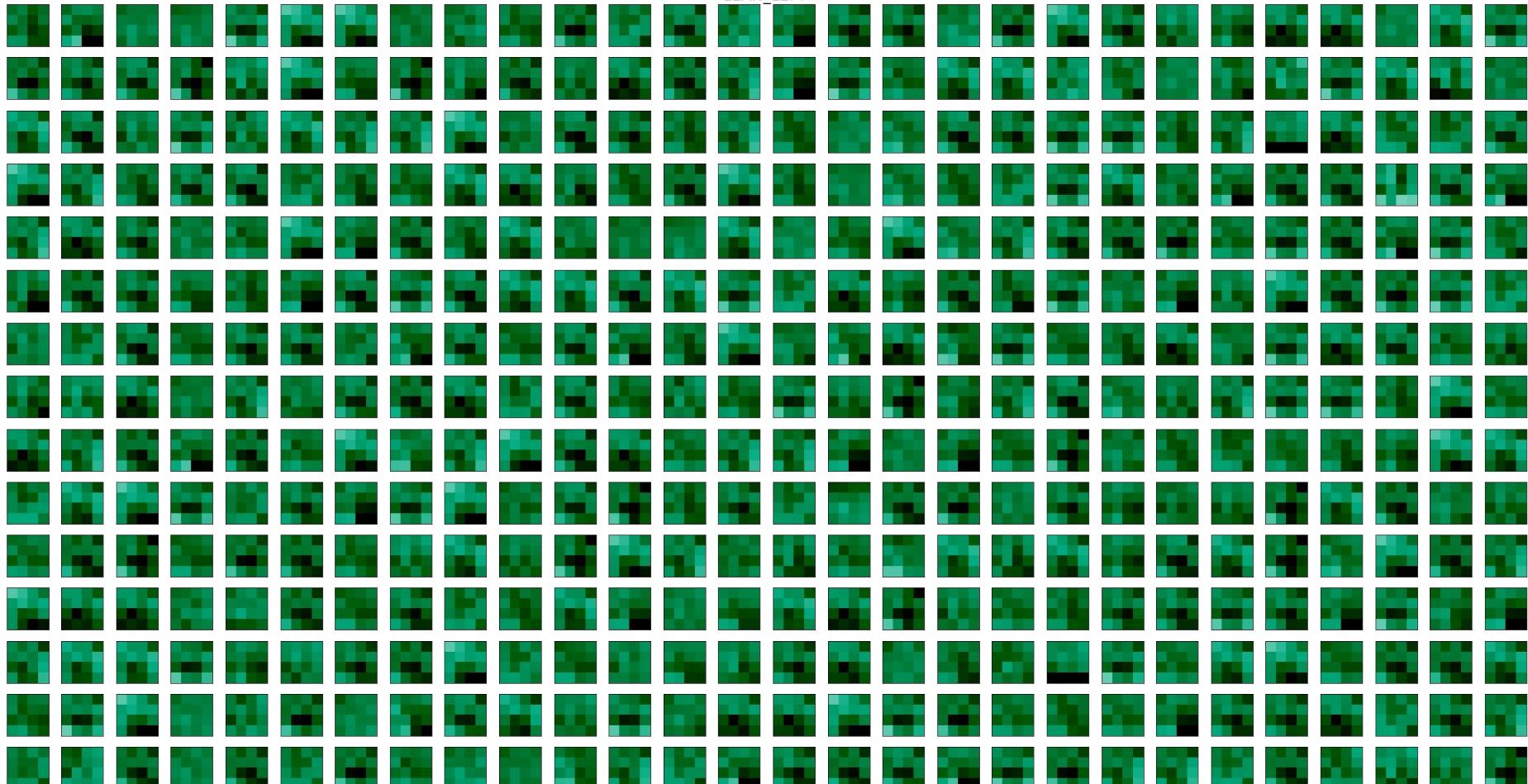
STD BACK



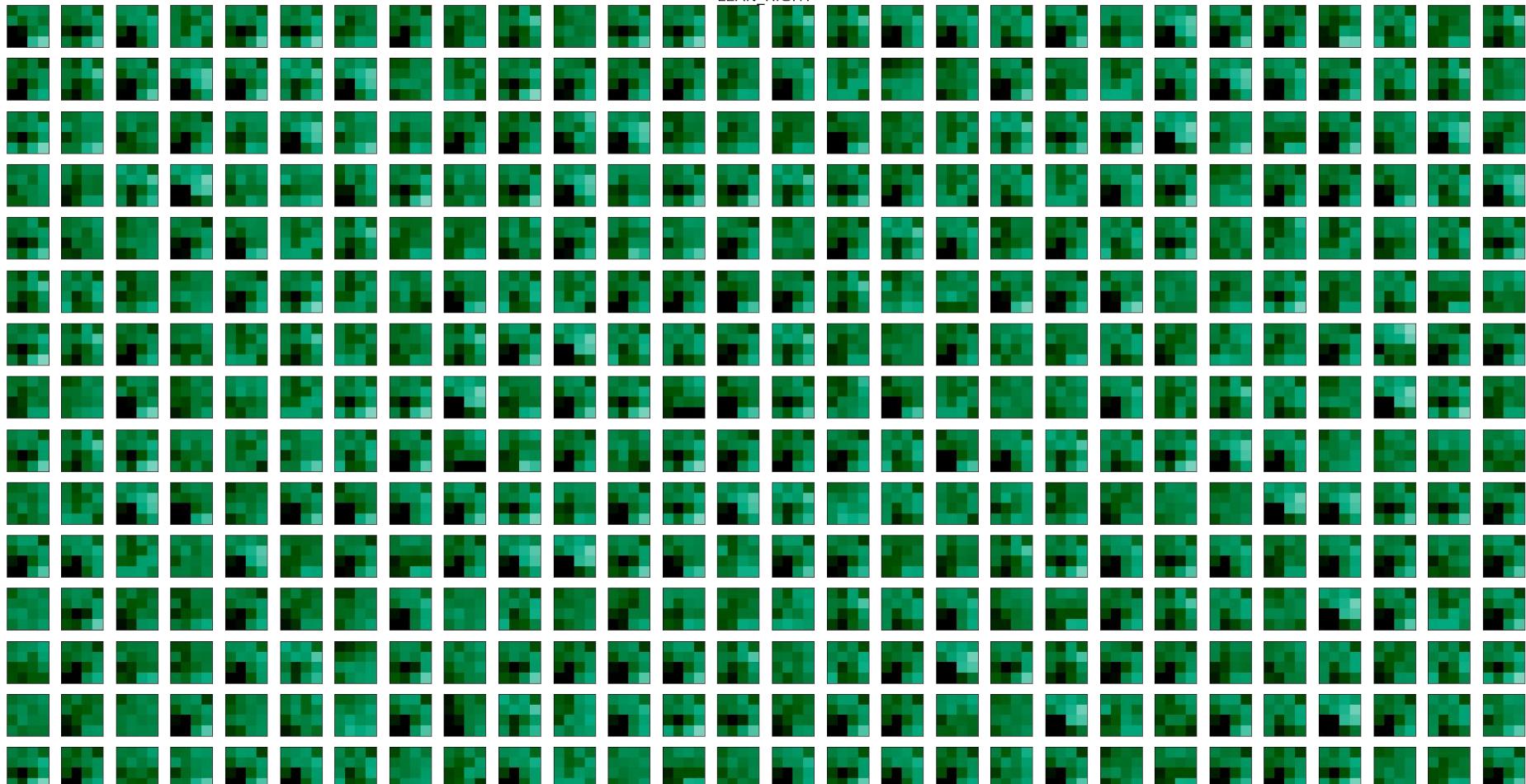
LEAN FRONT



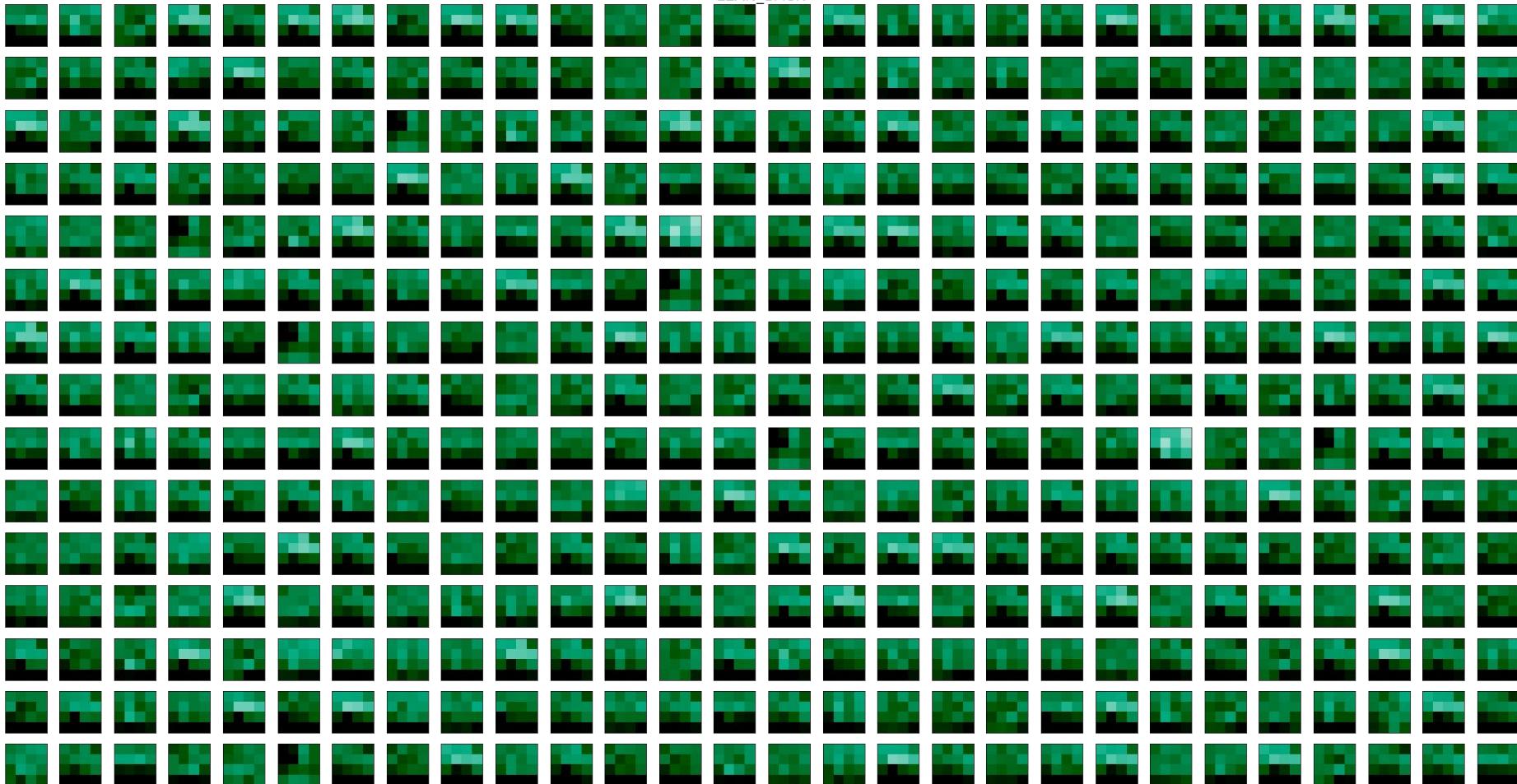
LEAN\_LEFT



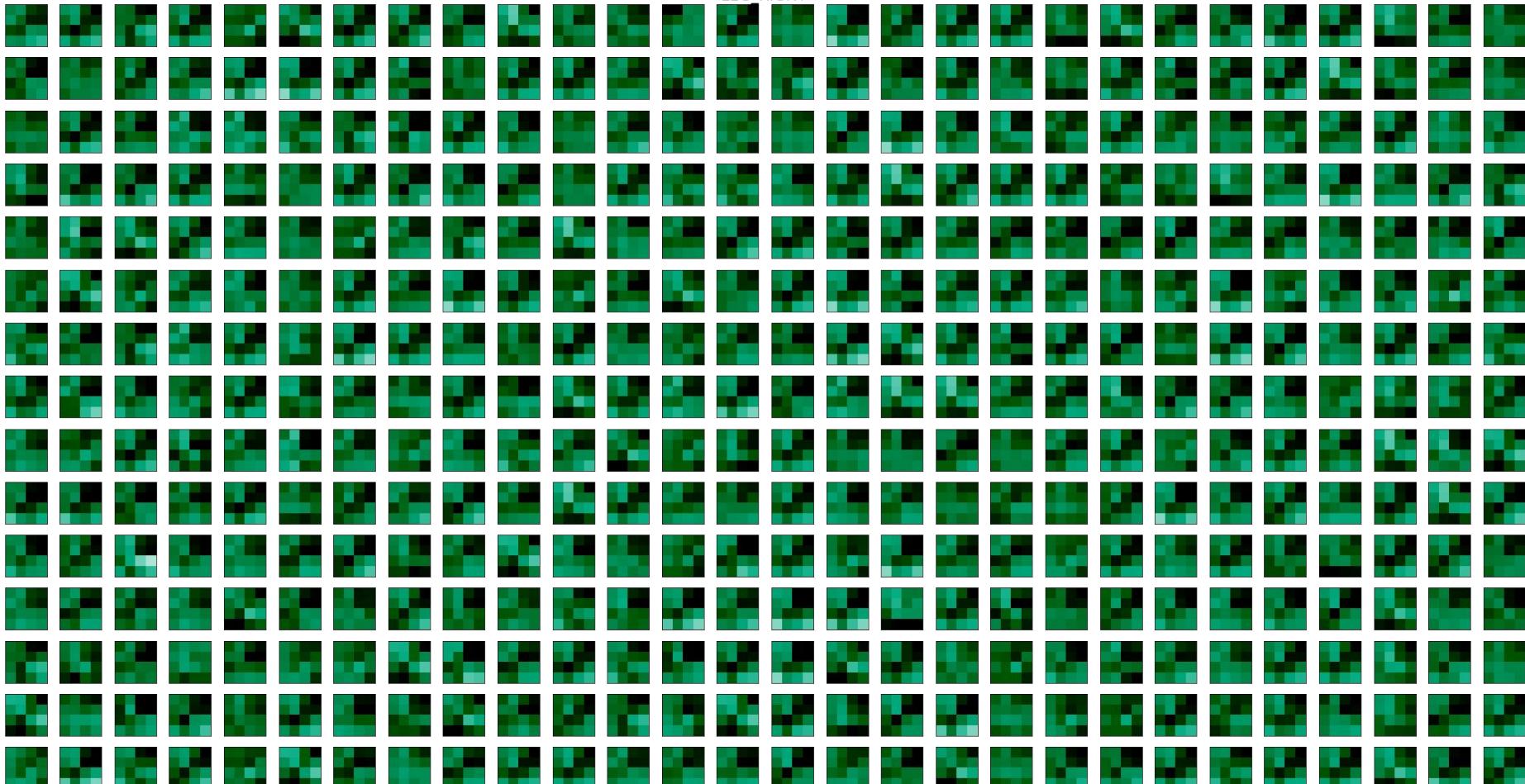
LEAN RIGHT



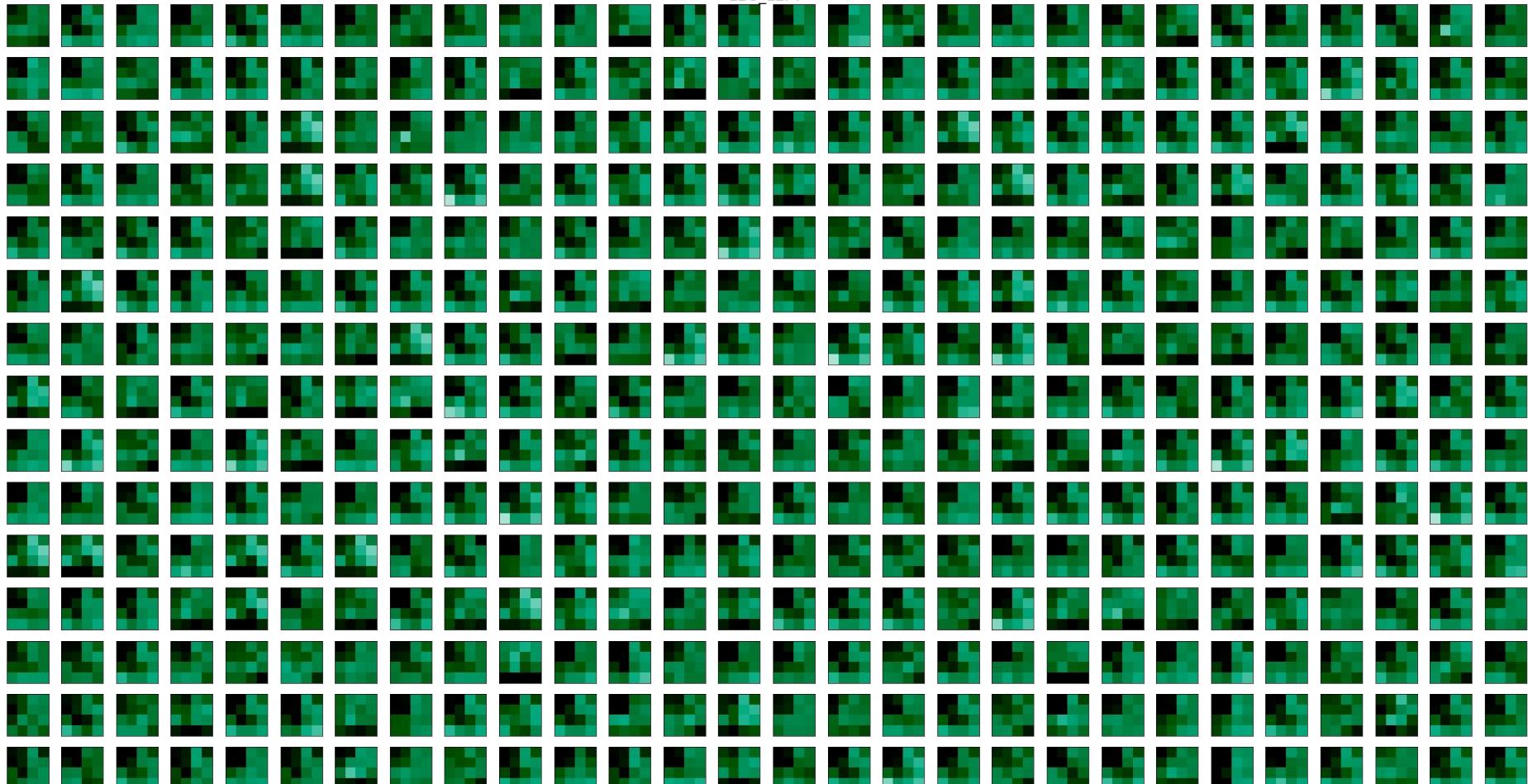
LEAN\_BACK



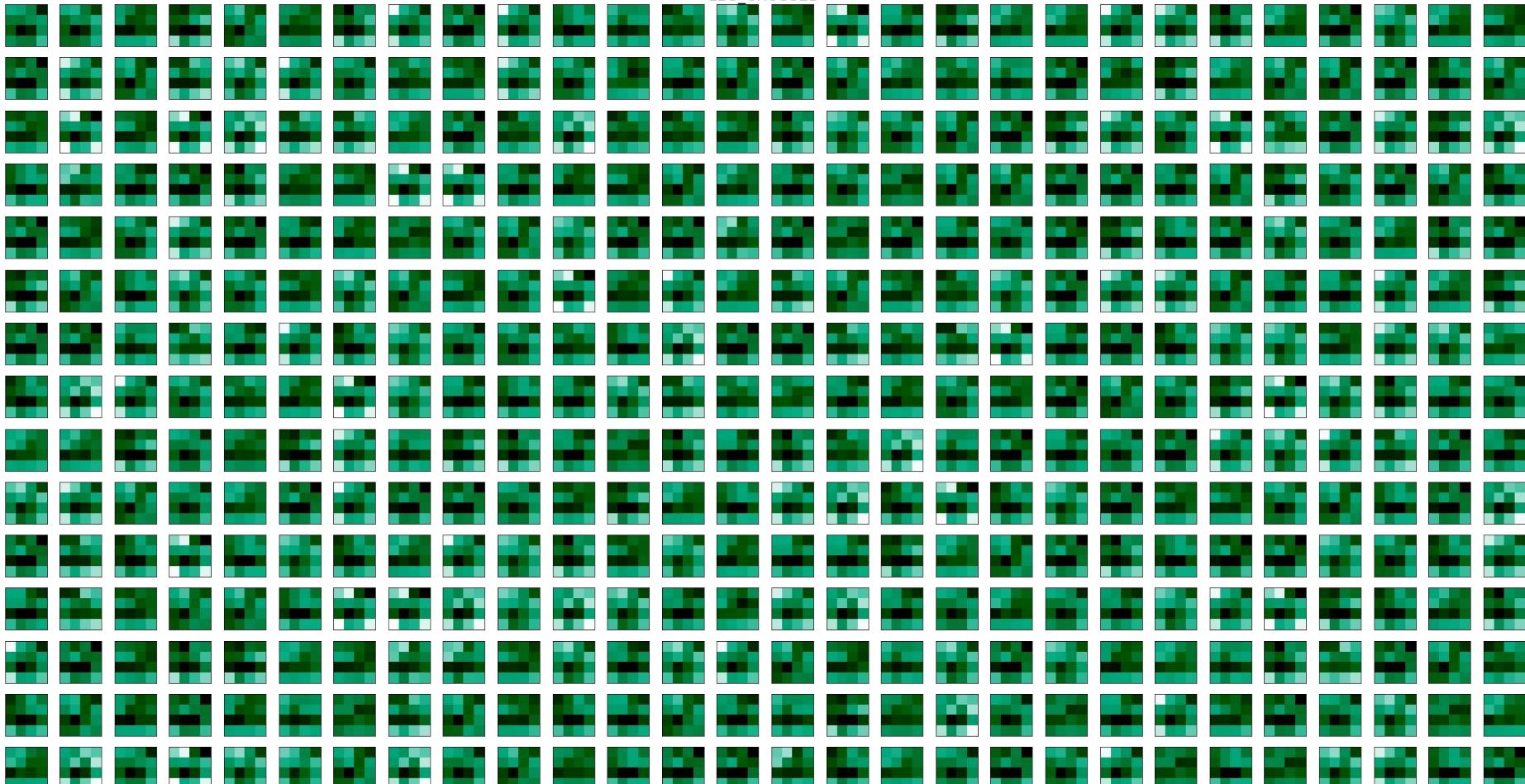
LEG RIGHT



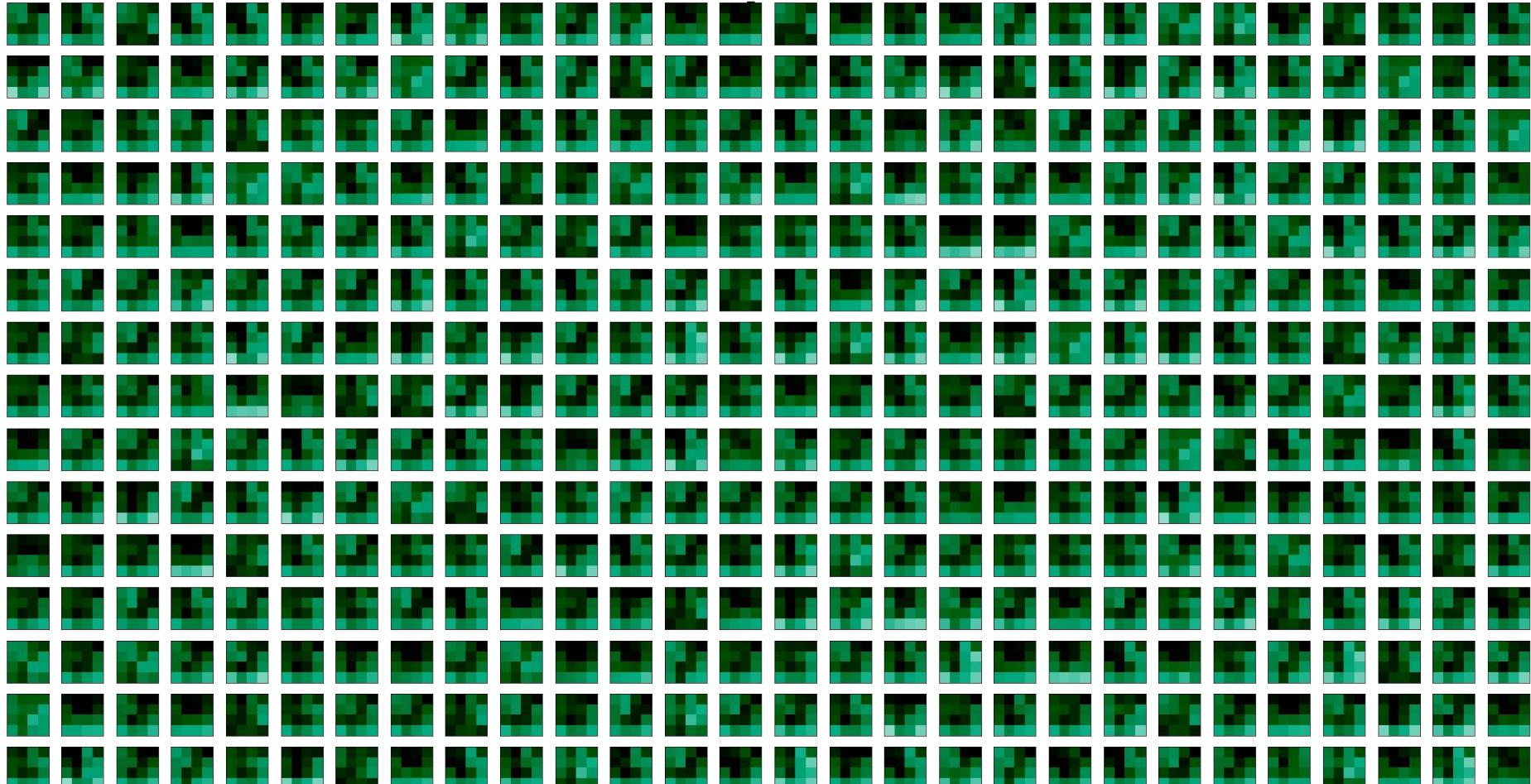
LEG LEFT



LEG CROSSED

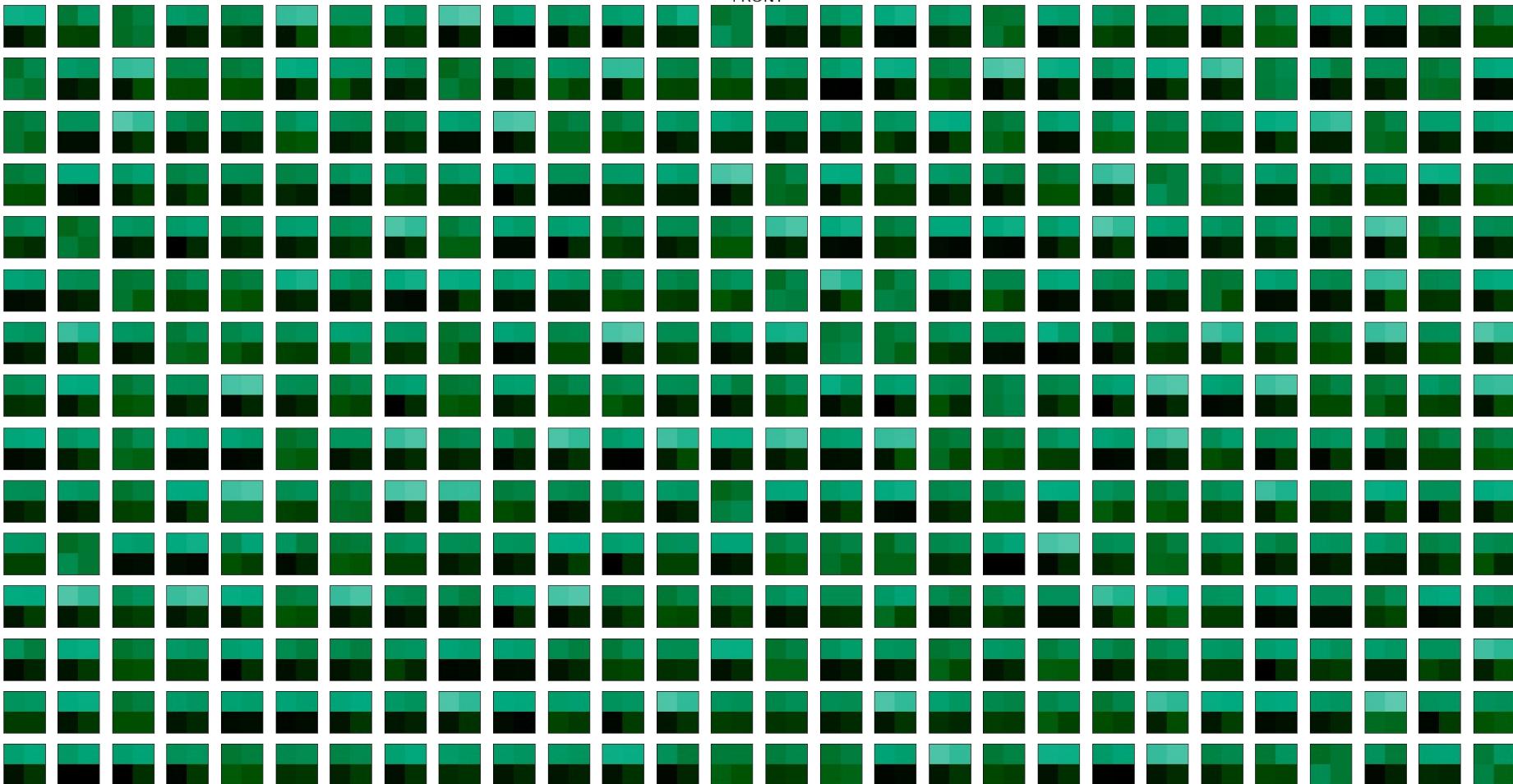


LEG SPREAD

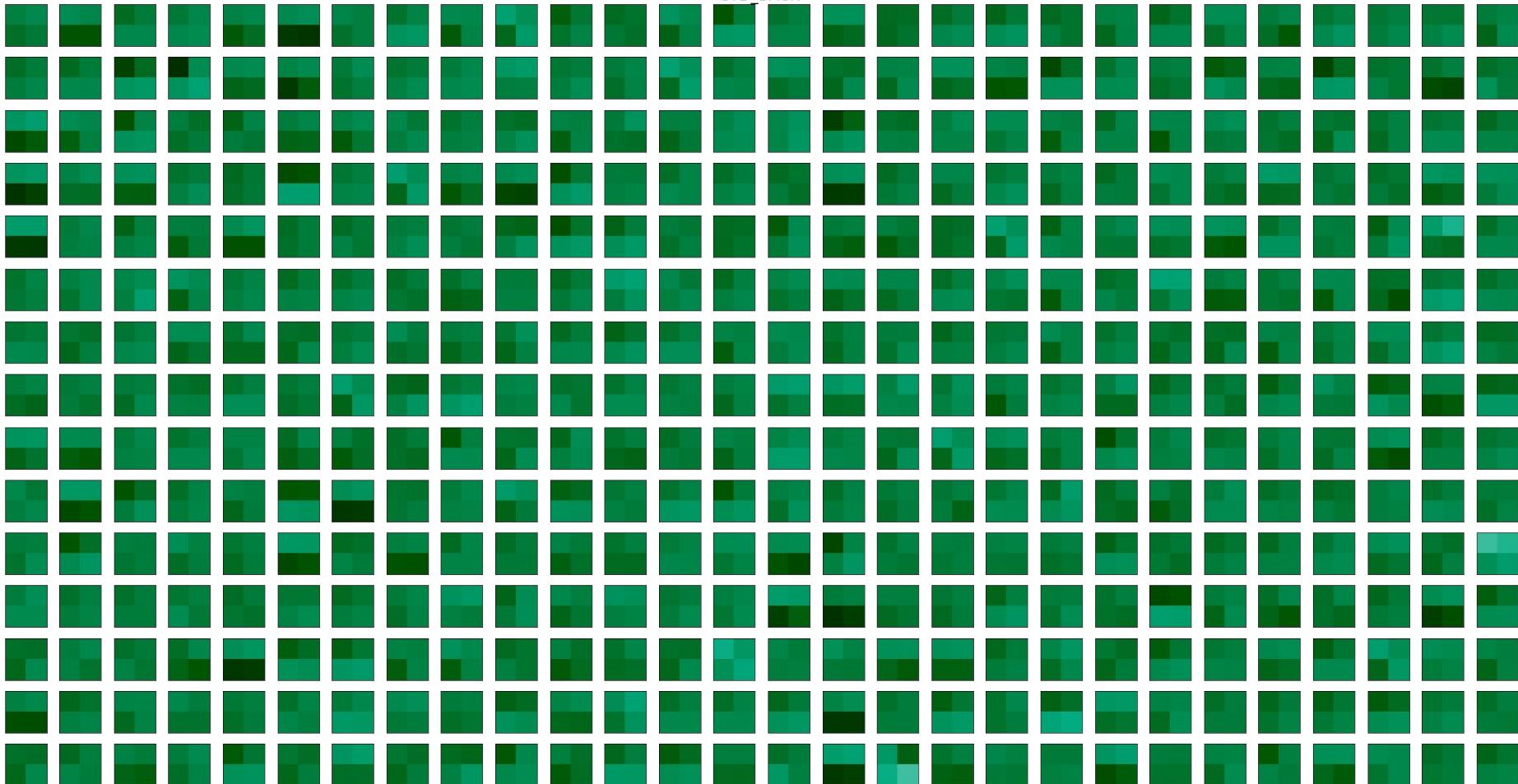


# 2x2 자세별 데이터 분포 (학습 데이터)

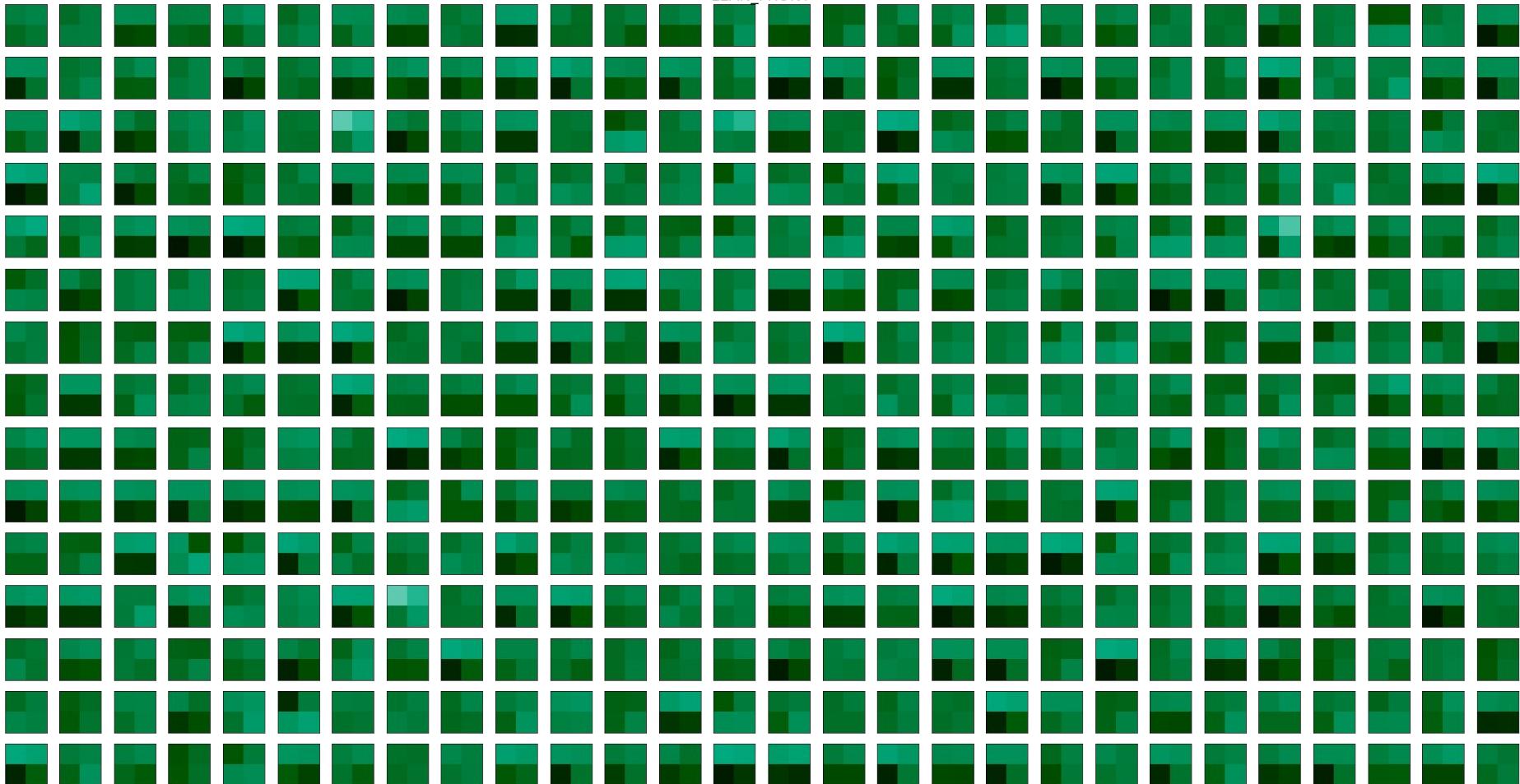
FRONT



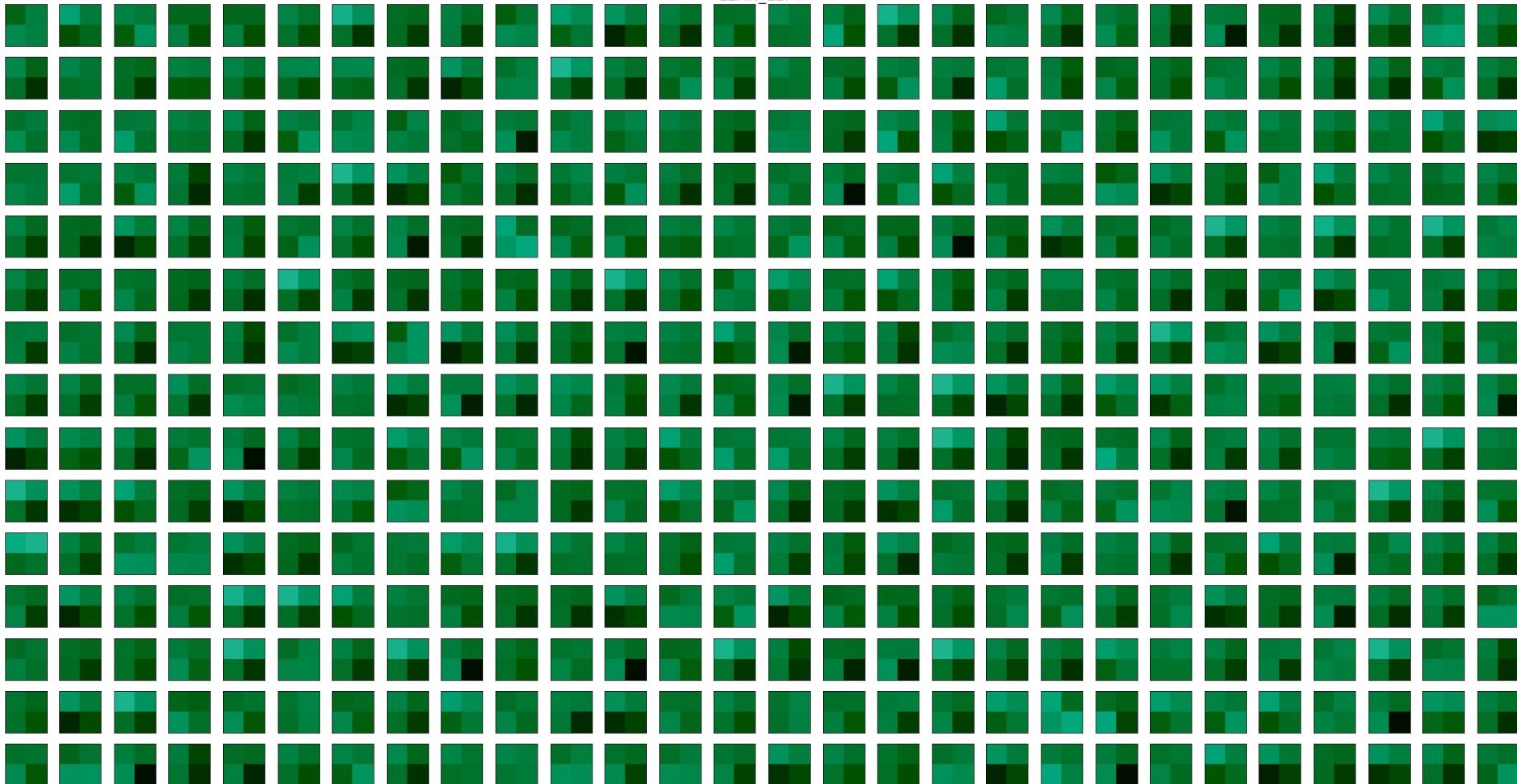
STD BACK



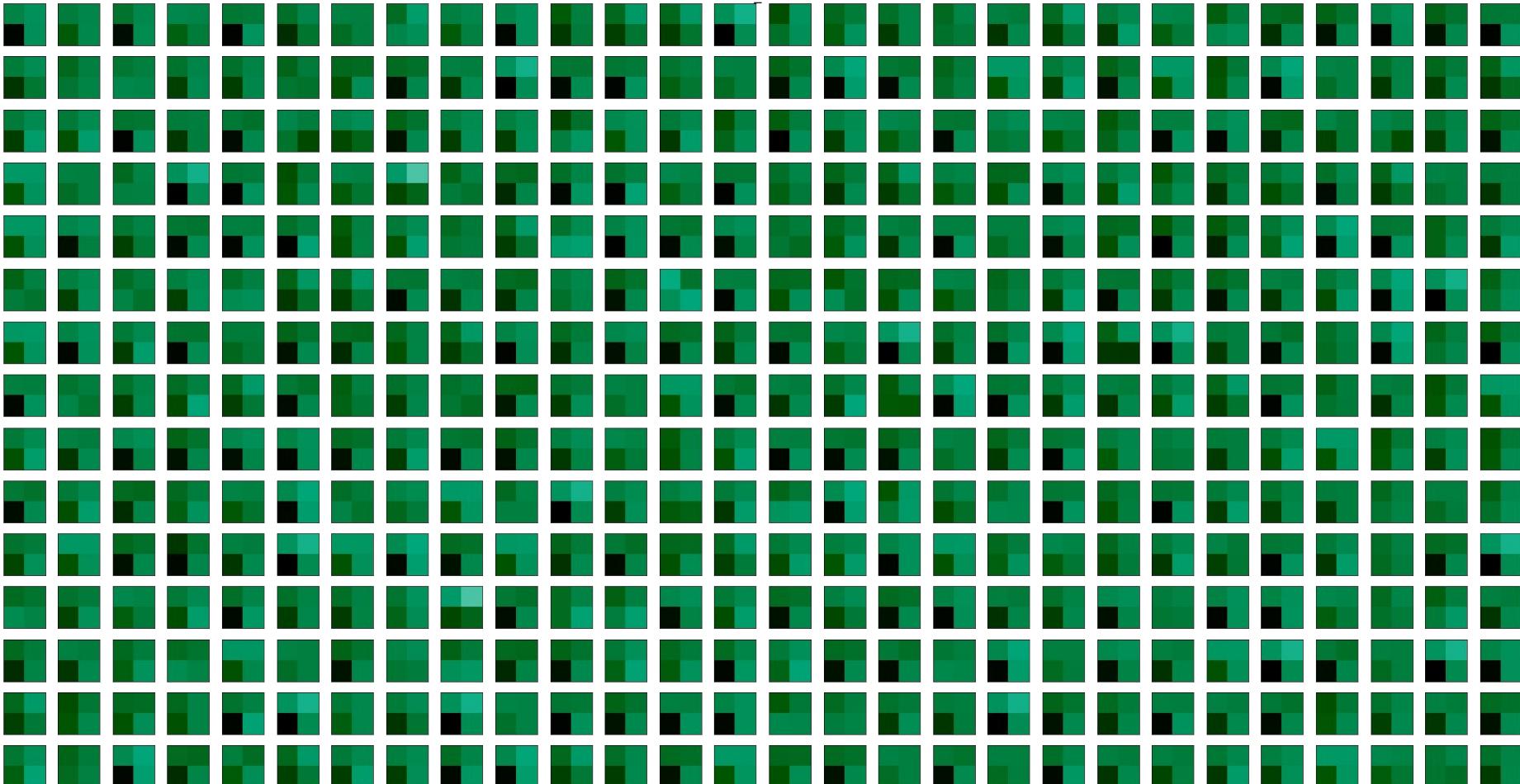
LEAN FRONT

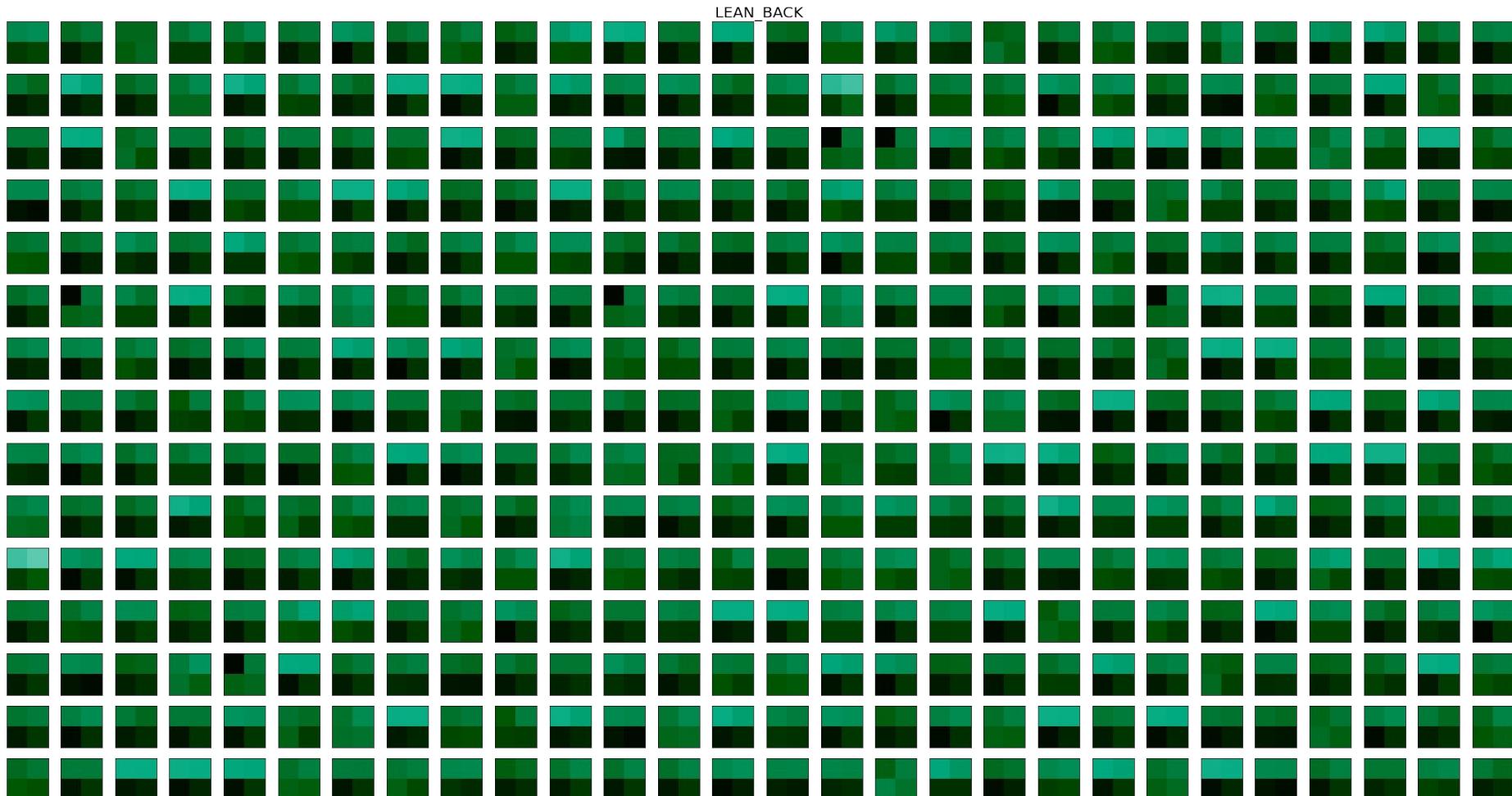


LEAN\_LEFT

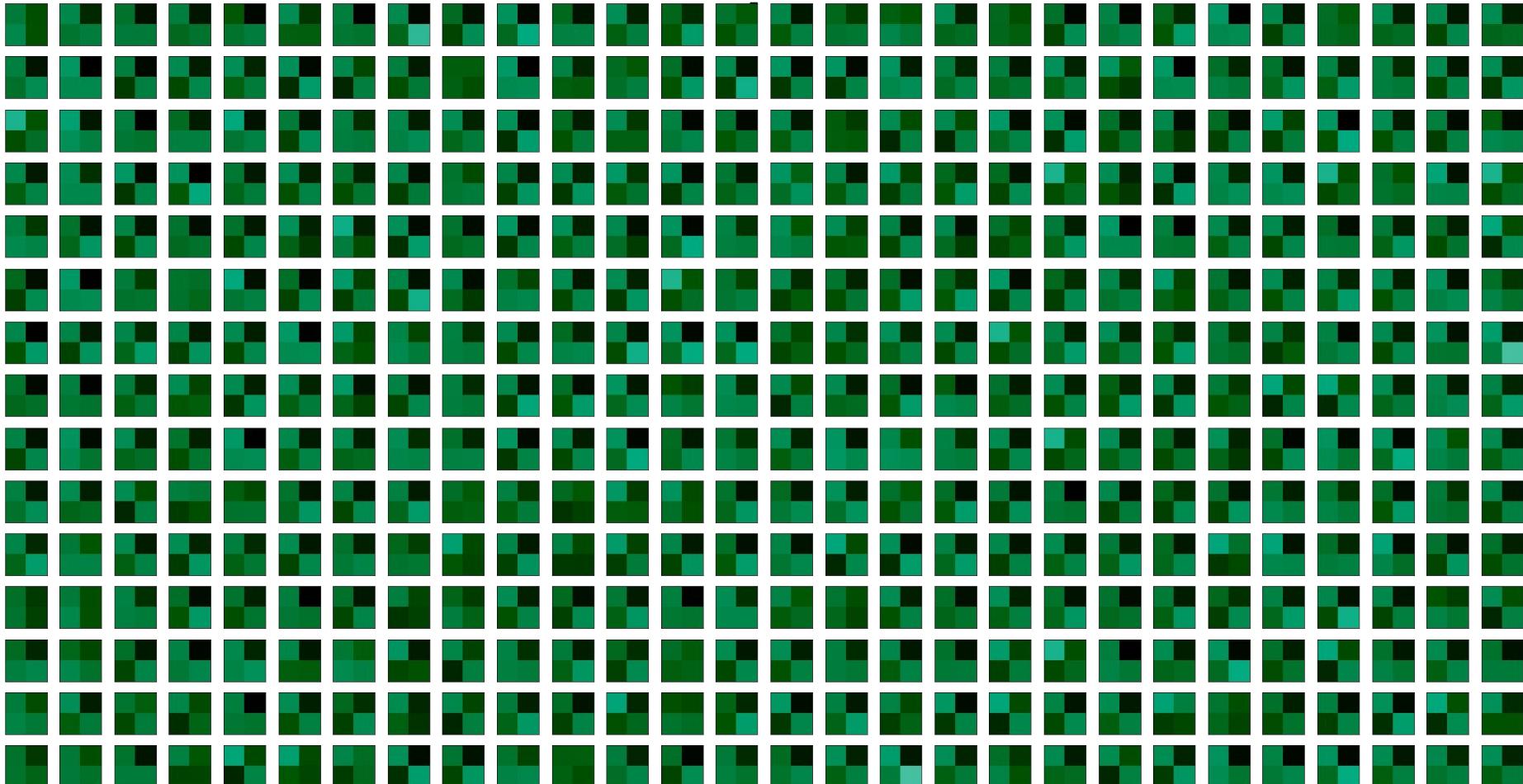


LEAN RIGHT

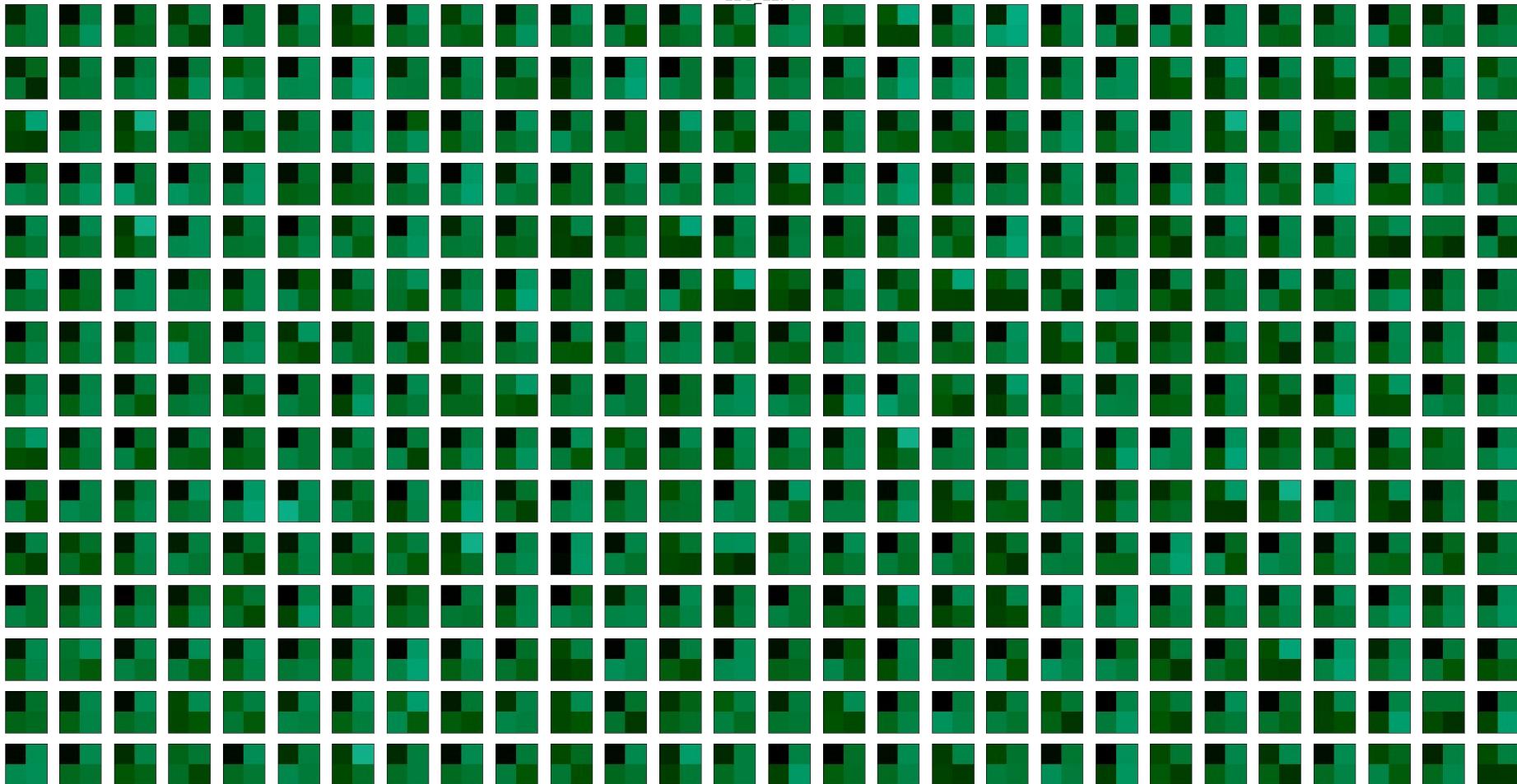




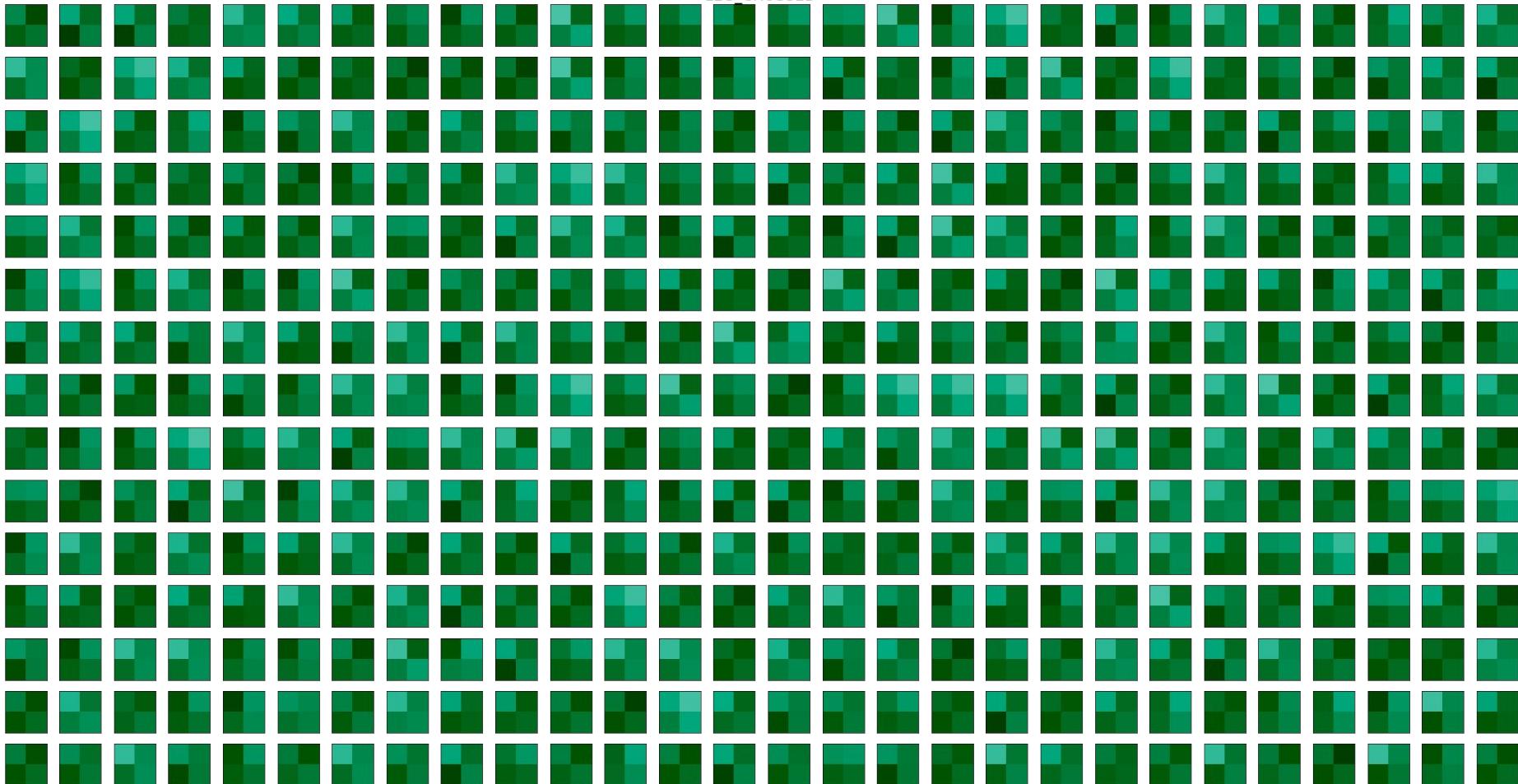
LEG. RIGHT



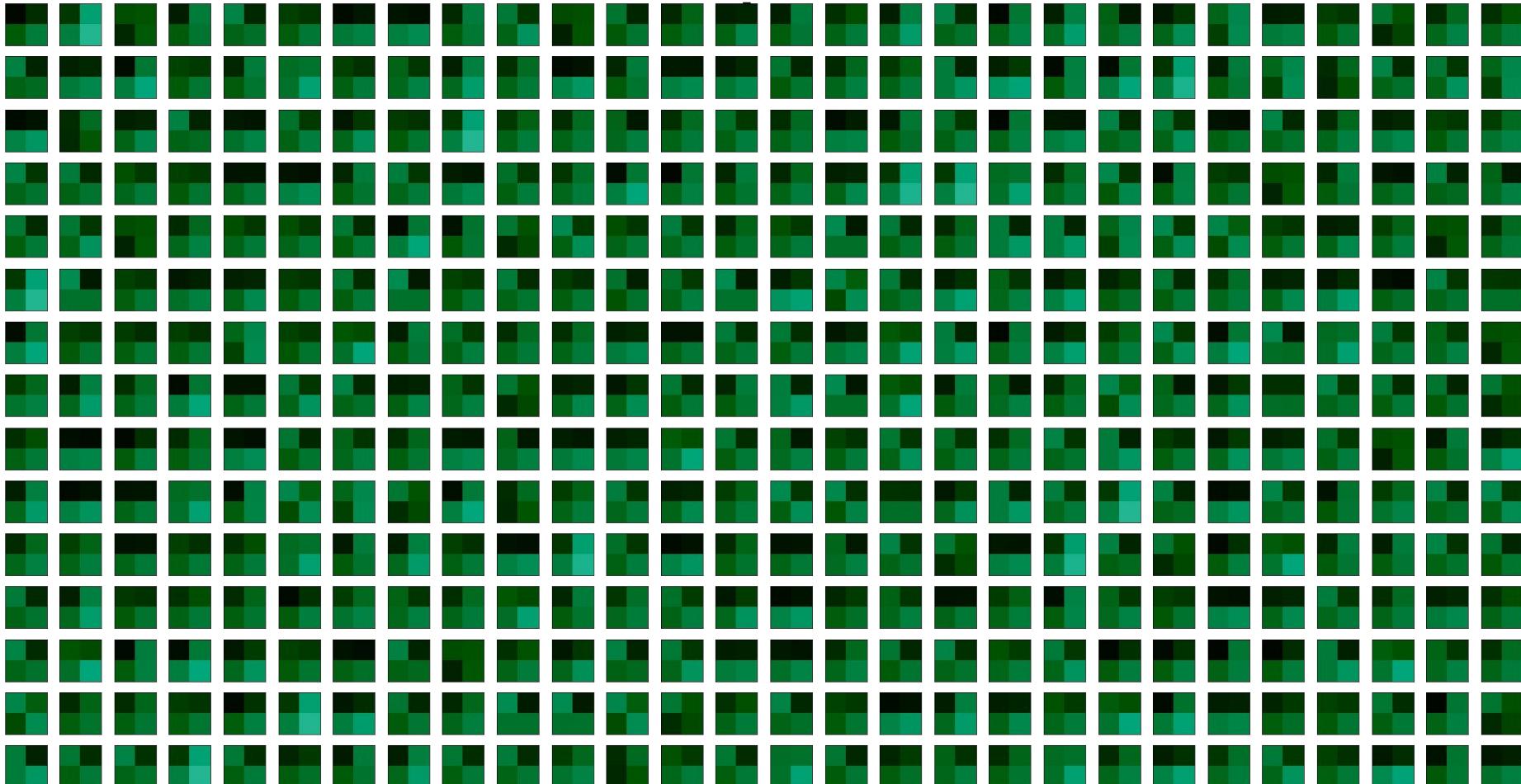
LEG LEFT



LEG CROSSED

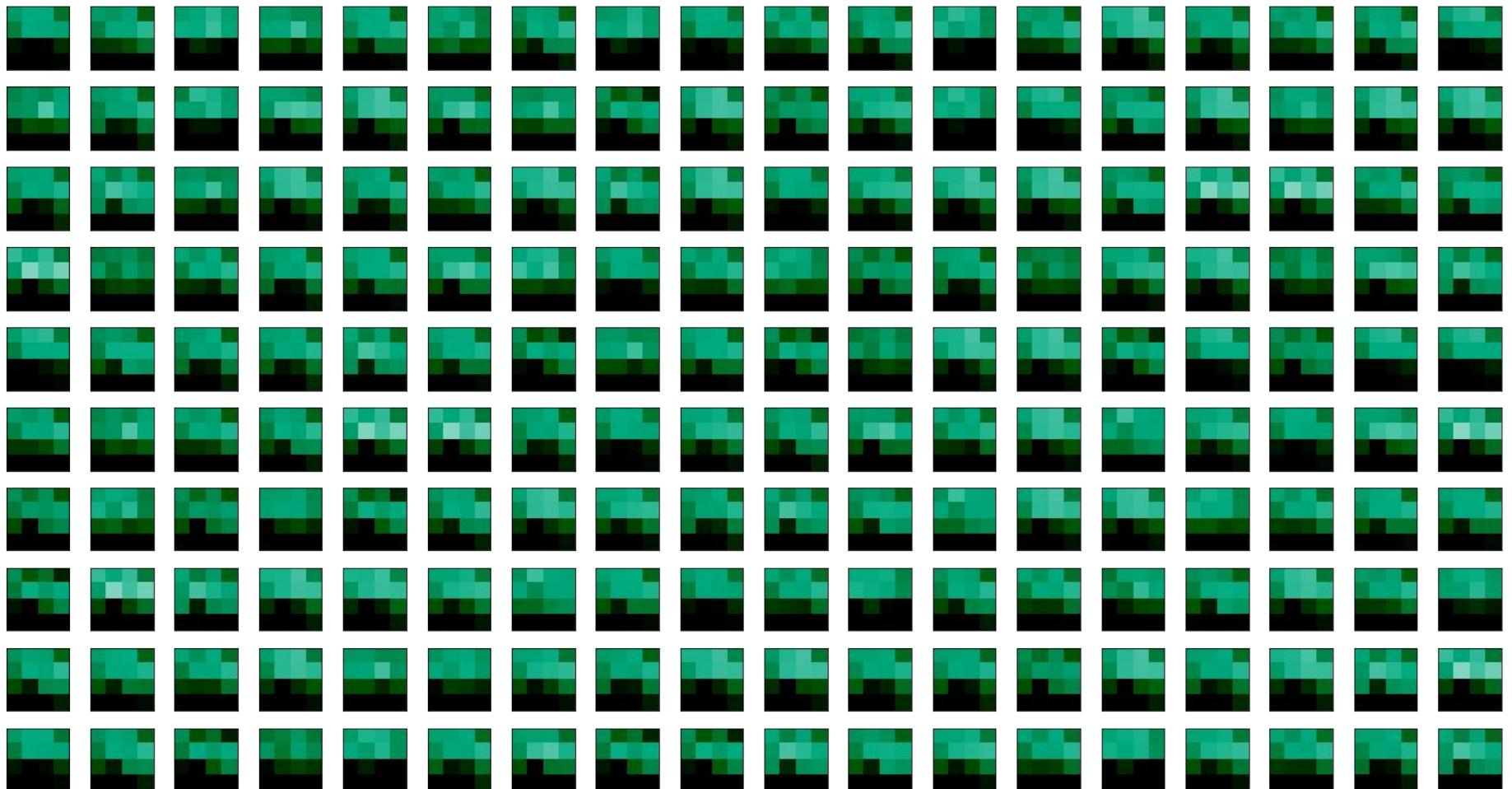


LEG SPREAD

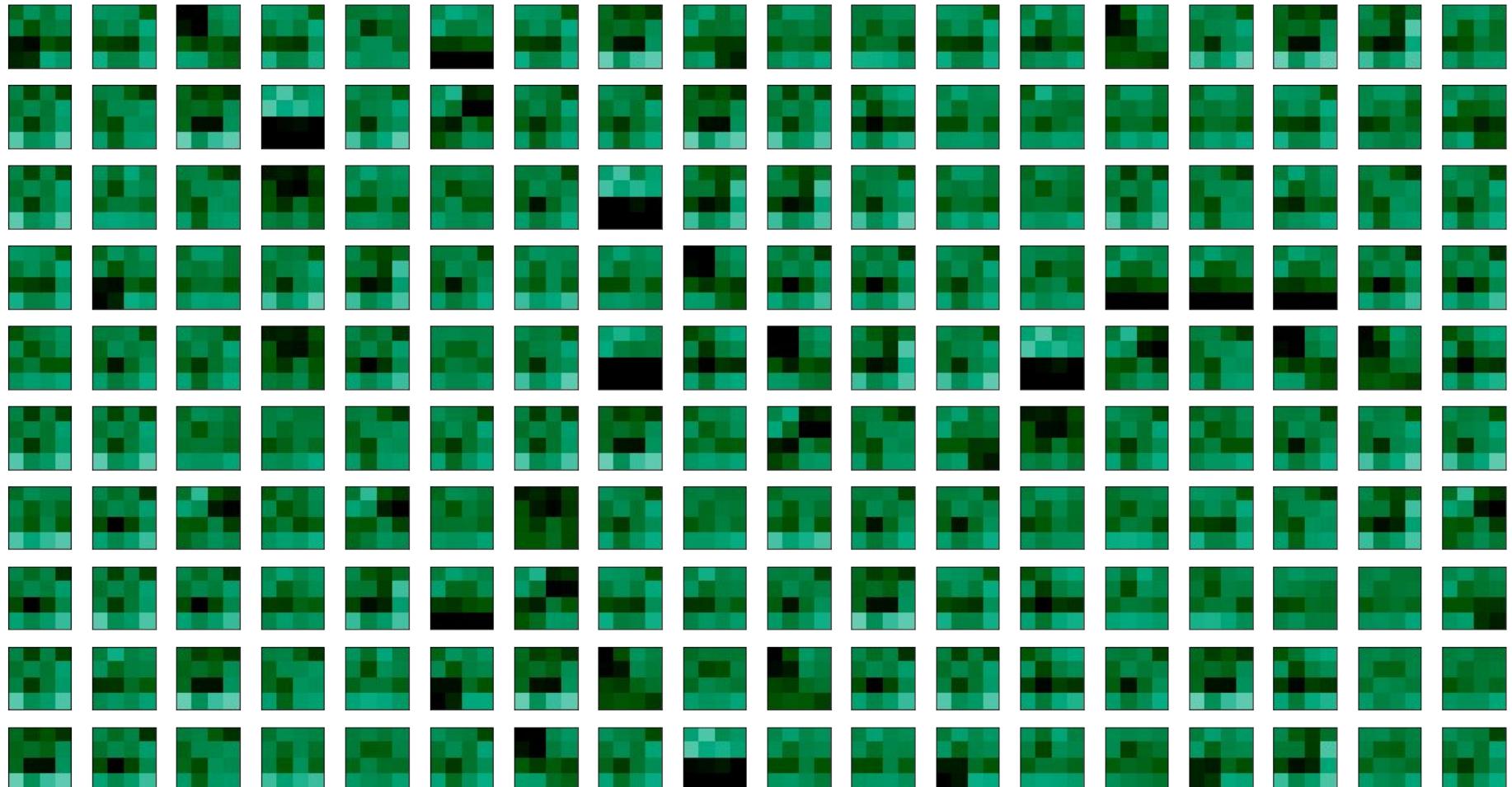


4x4 자세별 데이터 분포  
(검증 데이터)

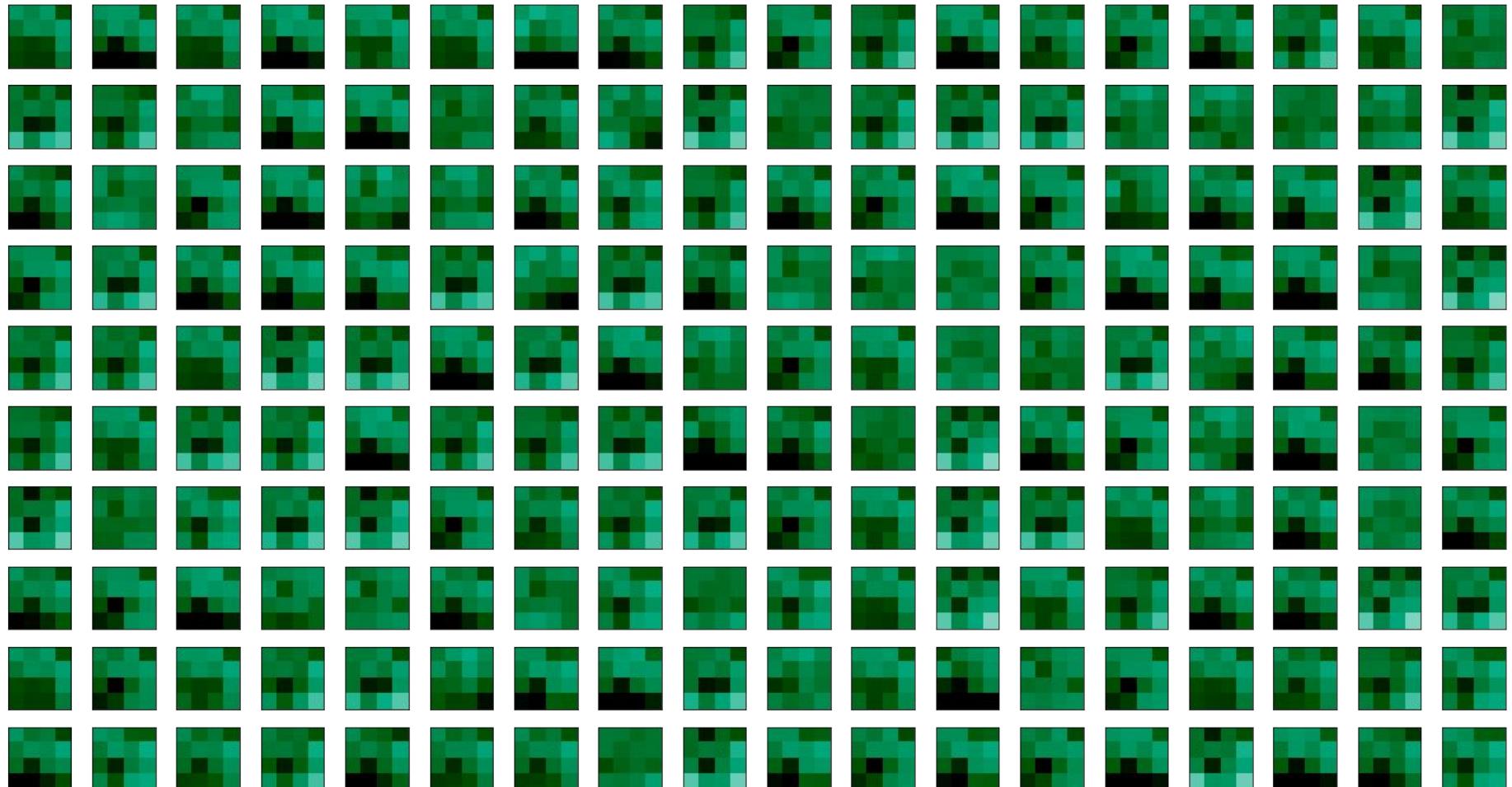
FRONT



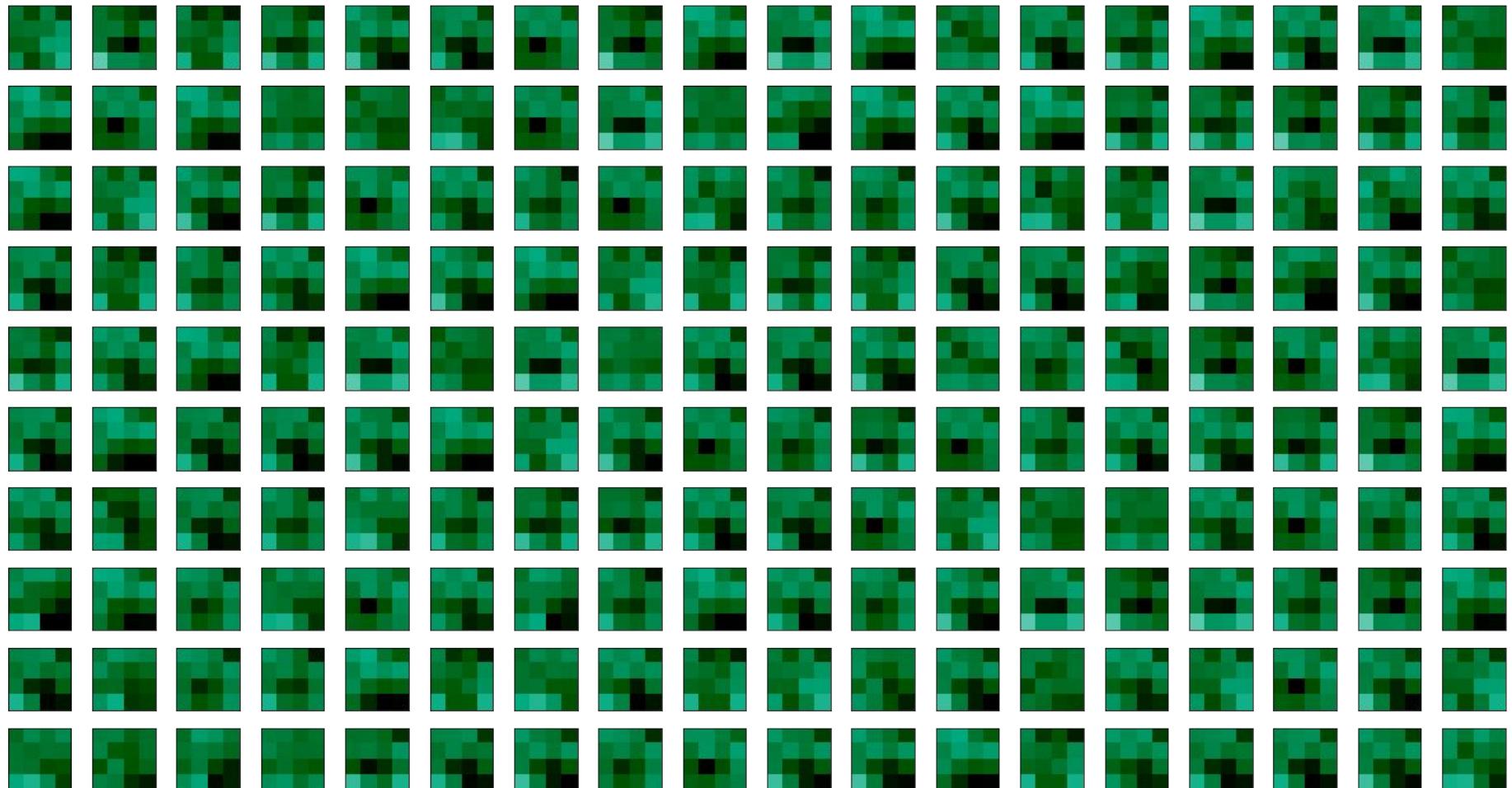
STD\_BACK



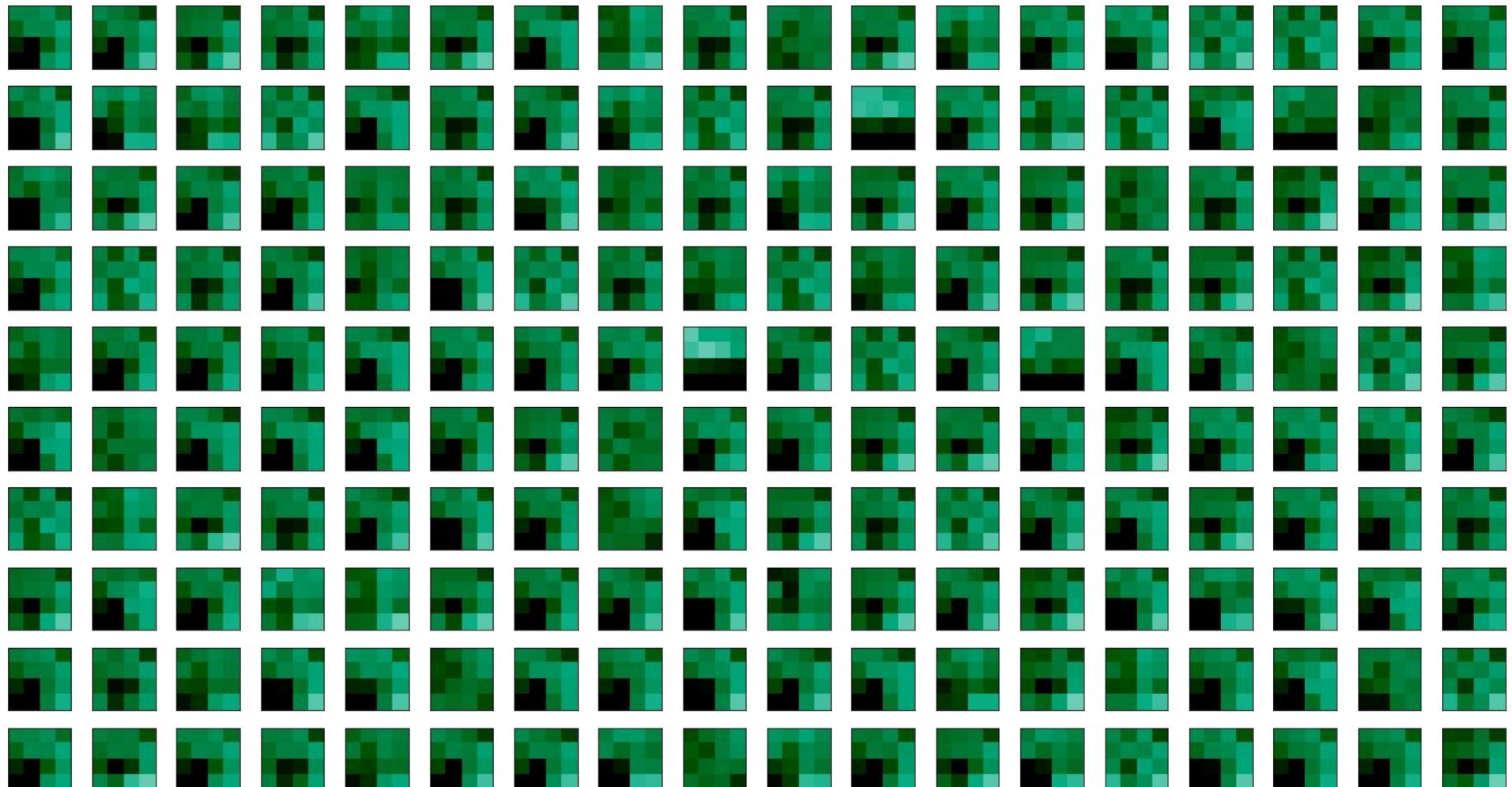
LEAN\_FRONT



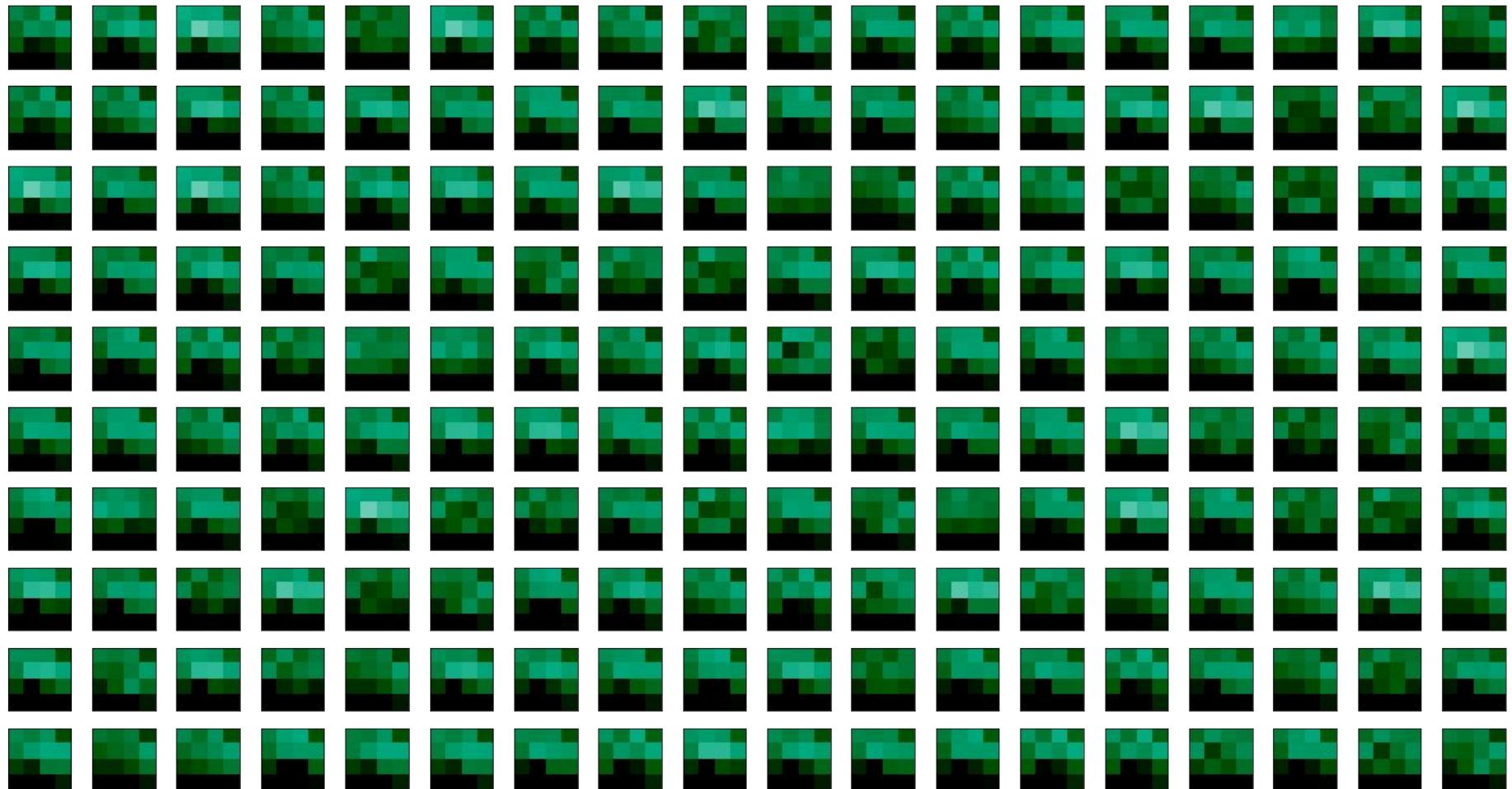
LEAN\_LEFT



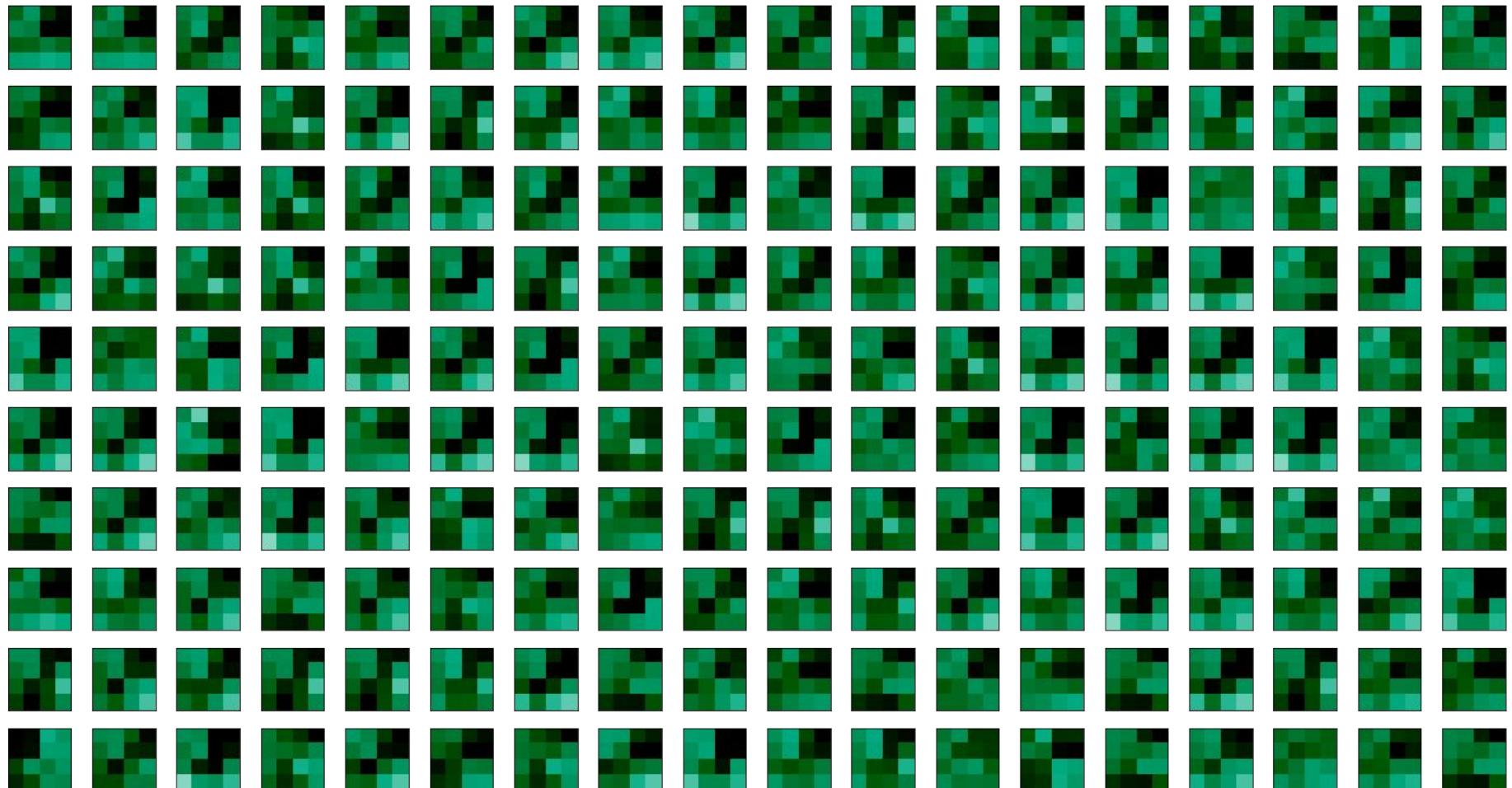
LEAN\_RIGHT



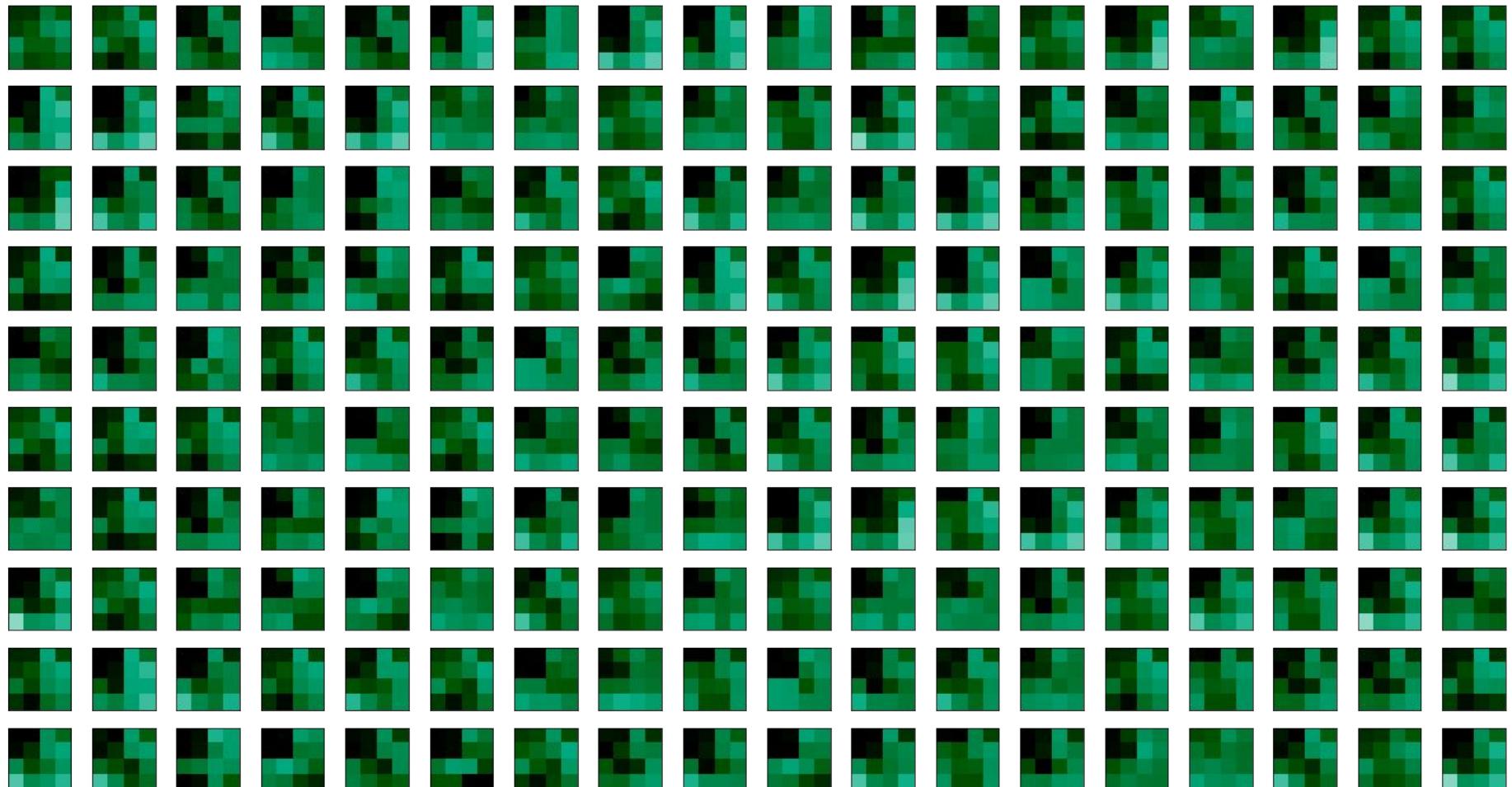
LEAN\_BACK



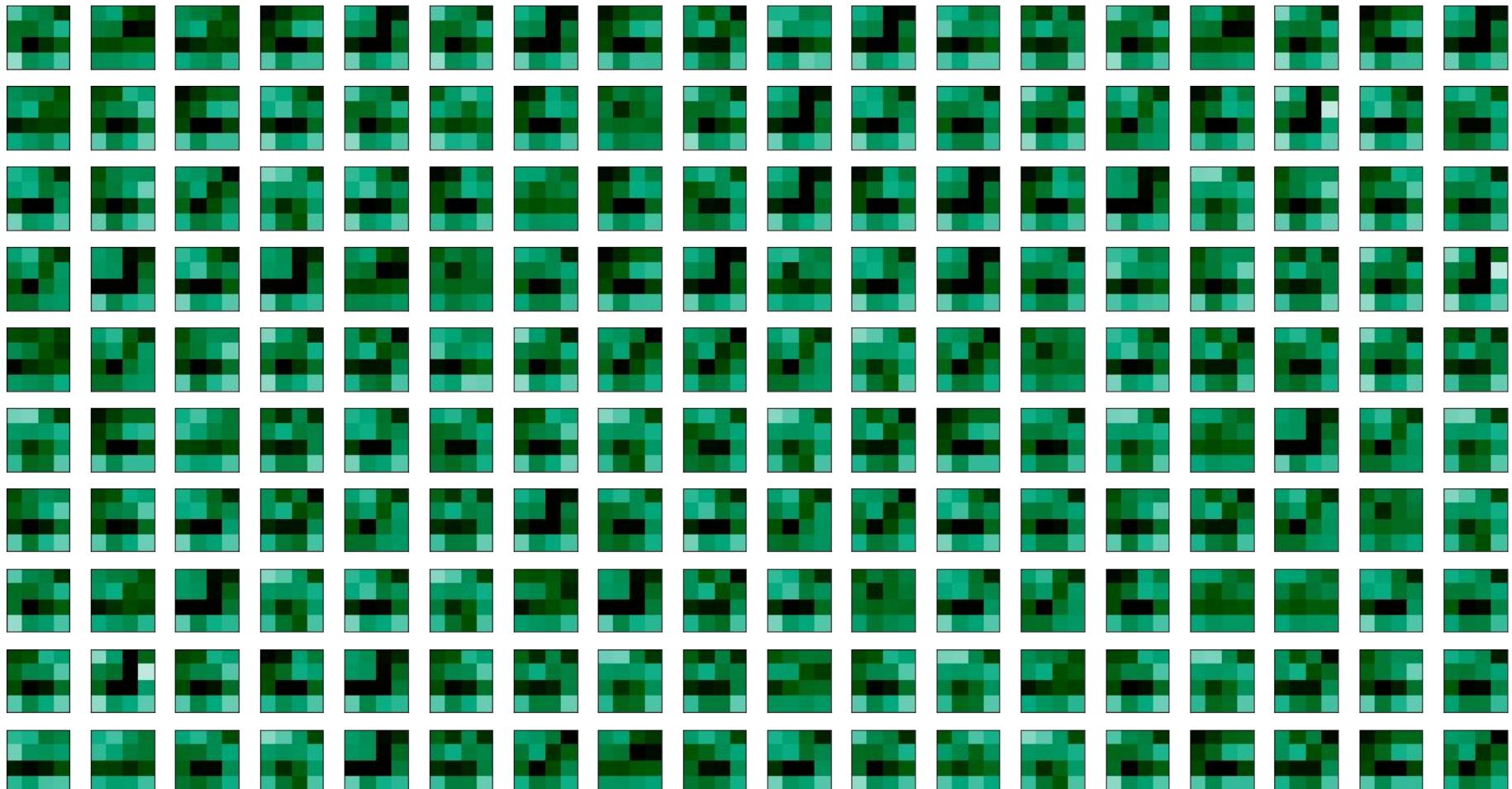
LEG\_RIGHT



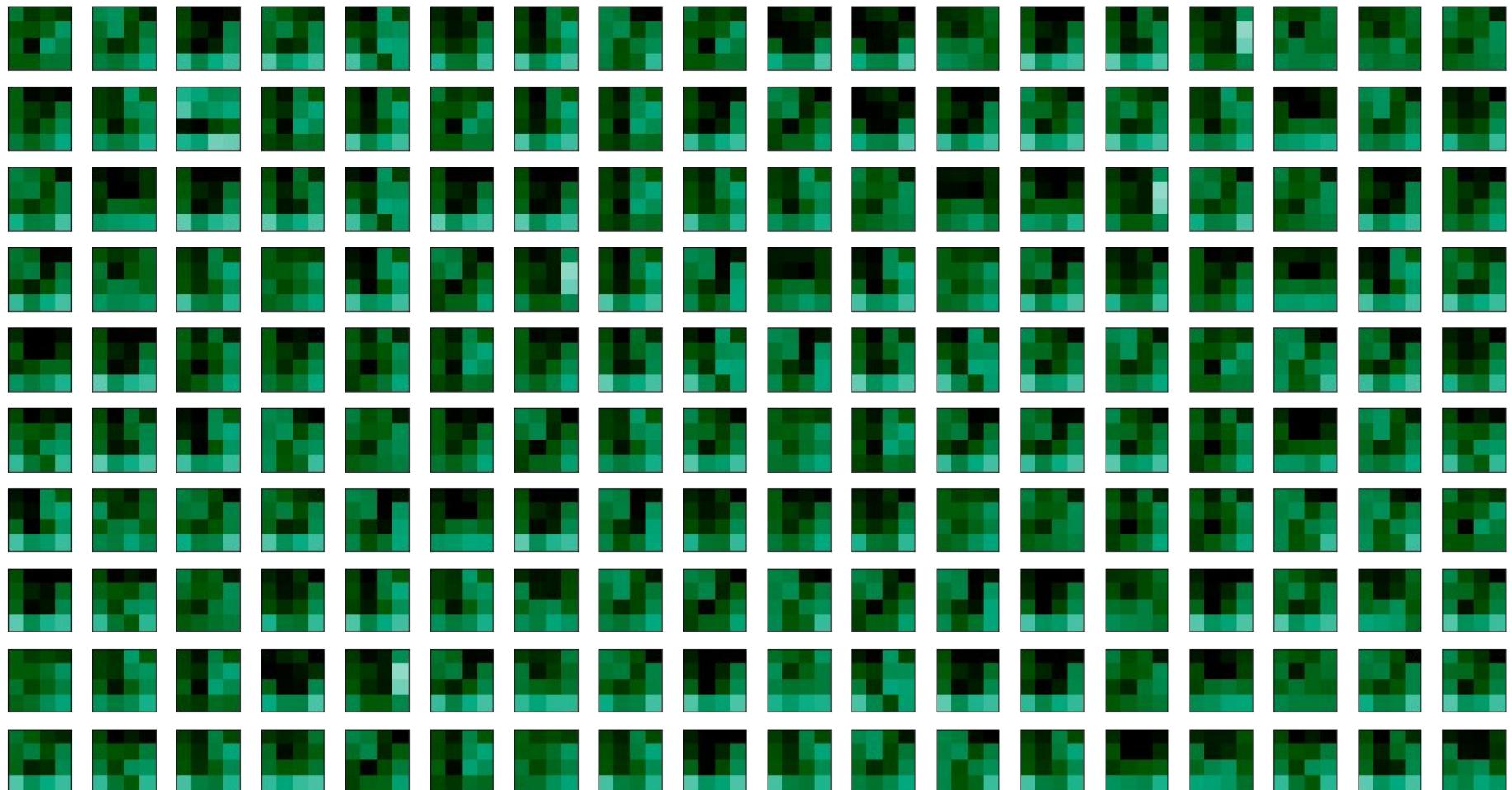
LEG\_LEFT



LEG\_CROSSED

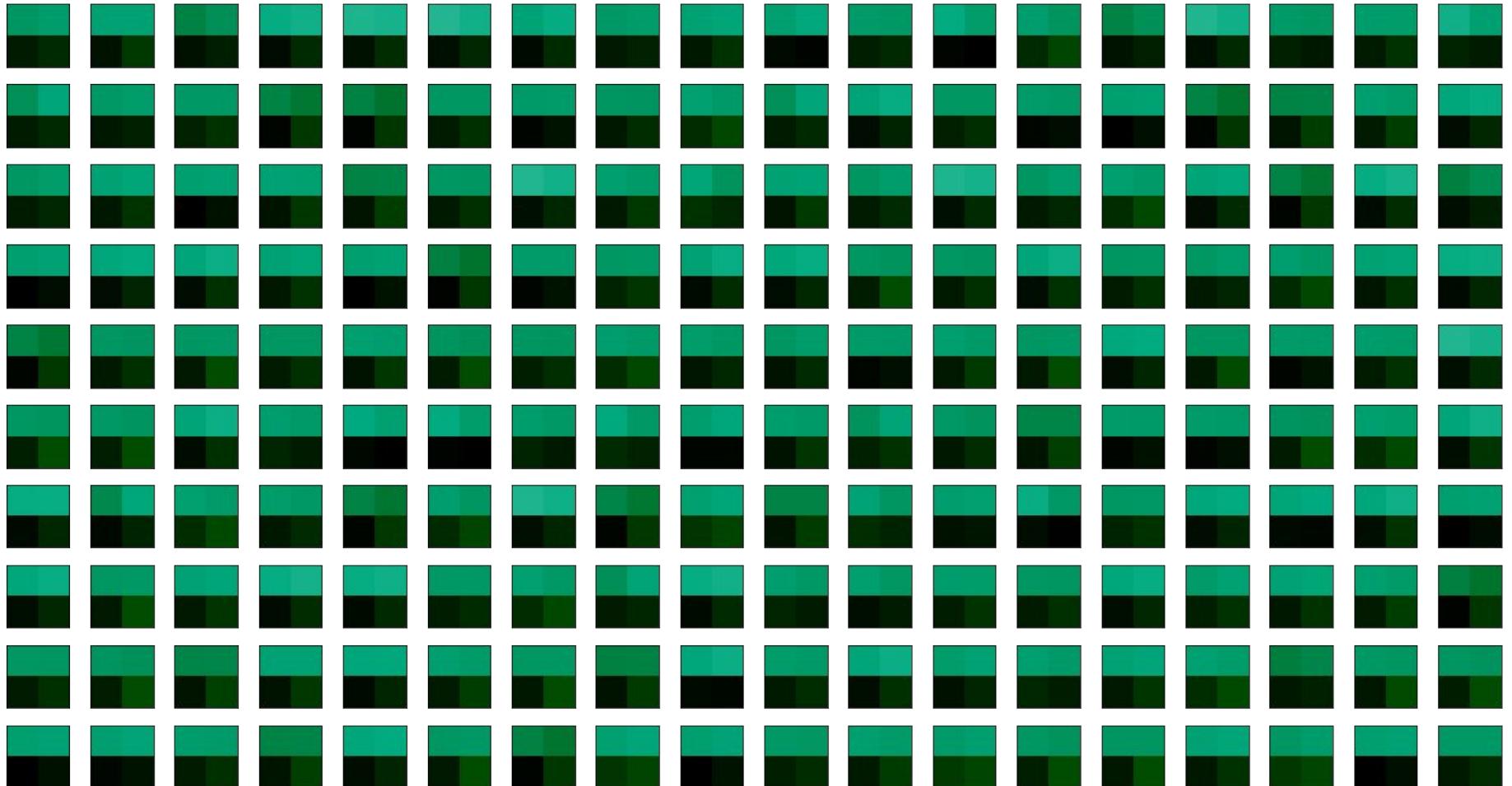


LEG\_SPREAD

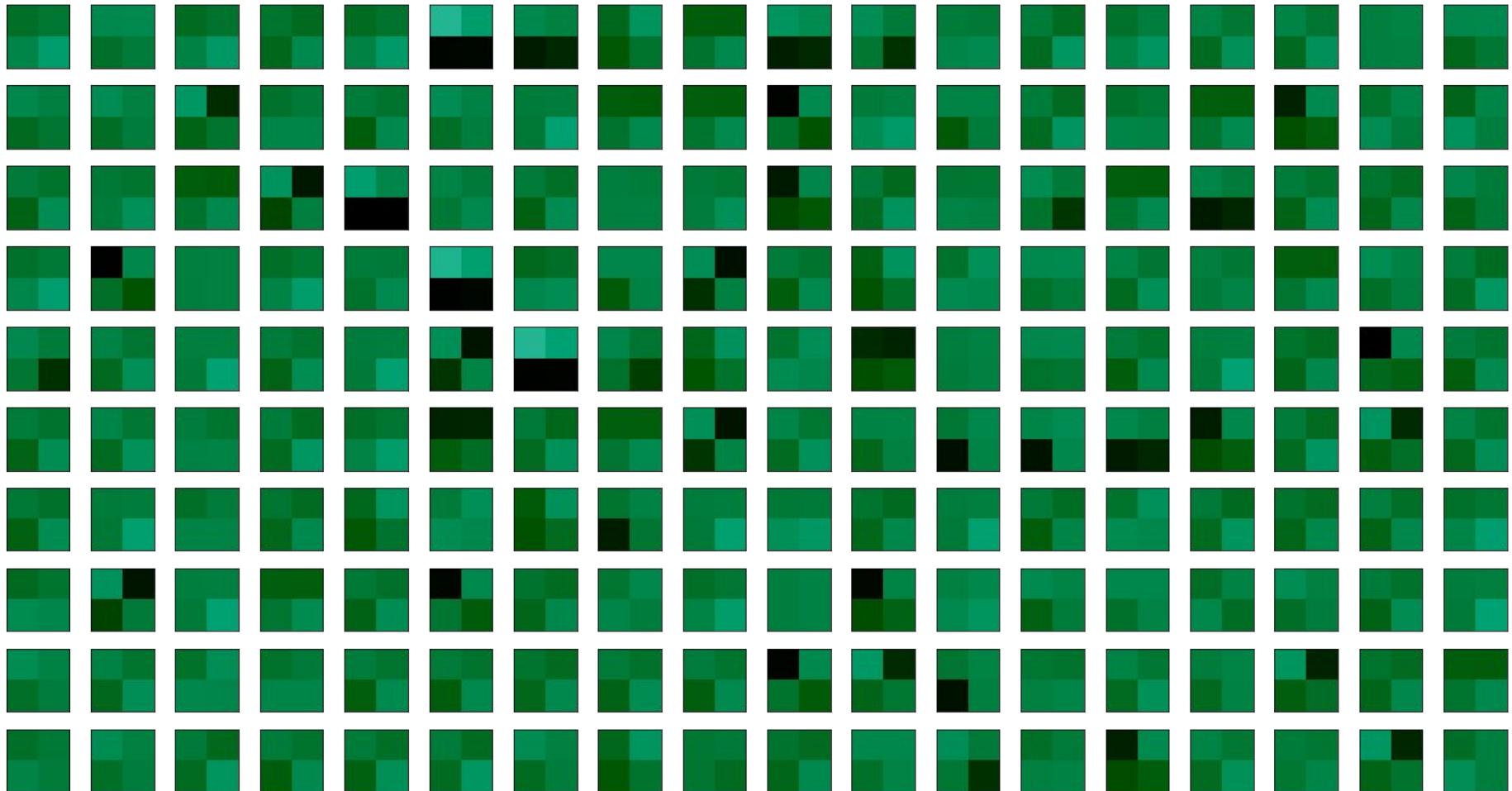


# 2x2 자세별 데이터 분포 (검증 데이터)

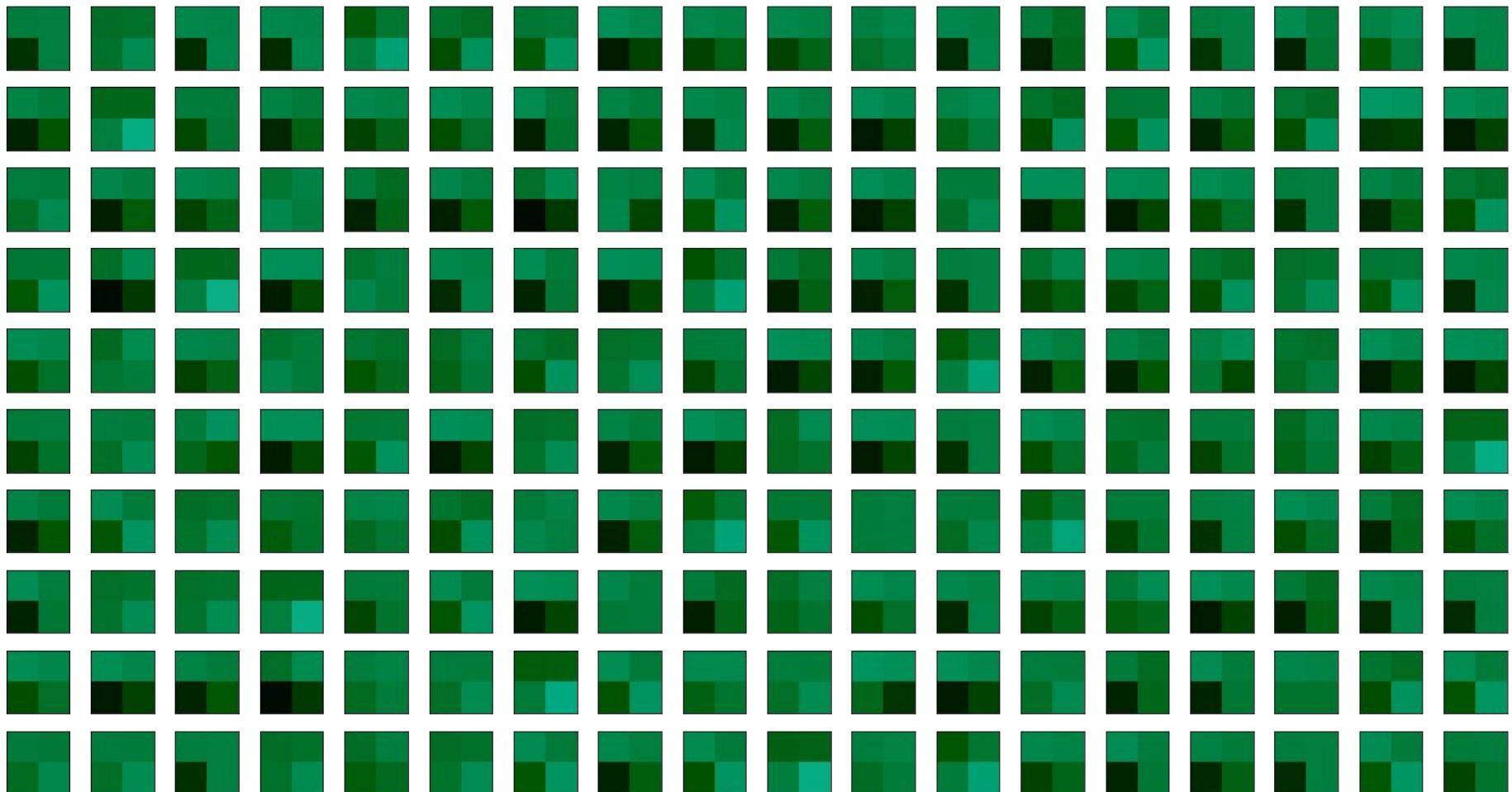
FRONT



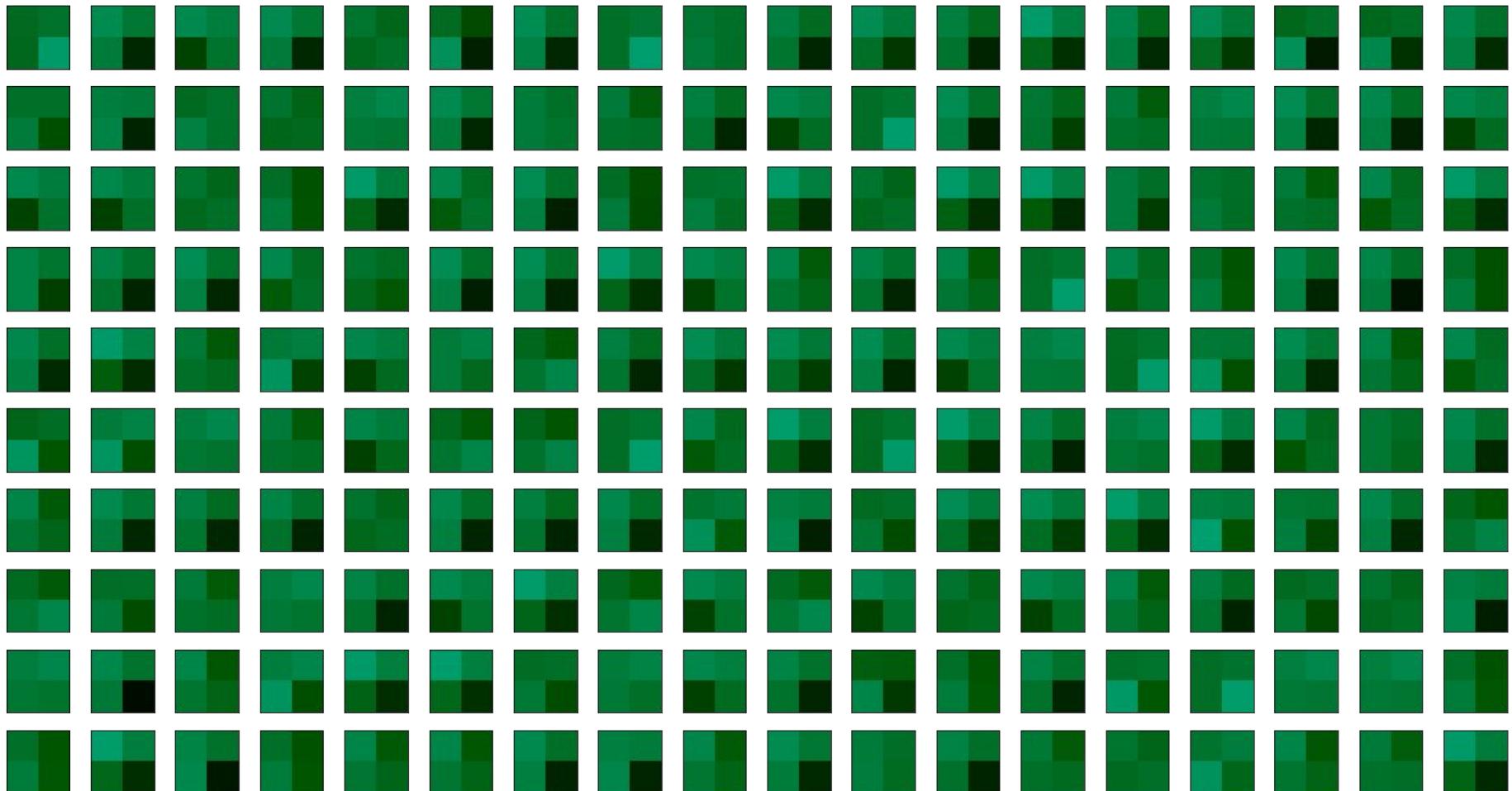
STD\_BACK



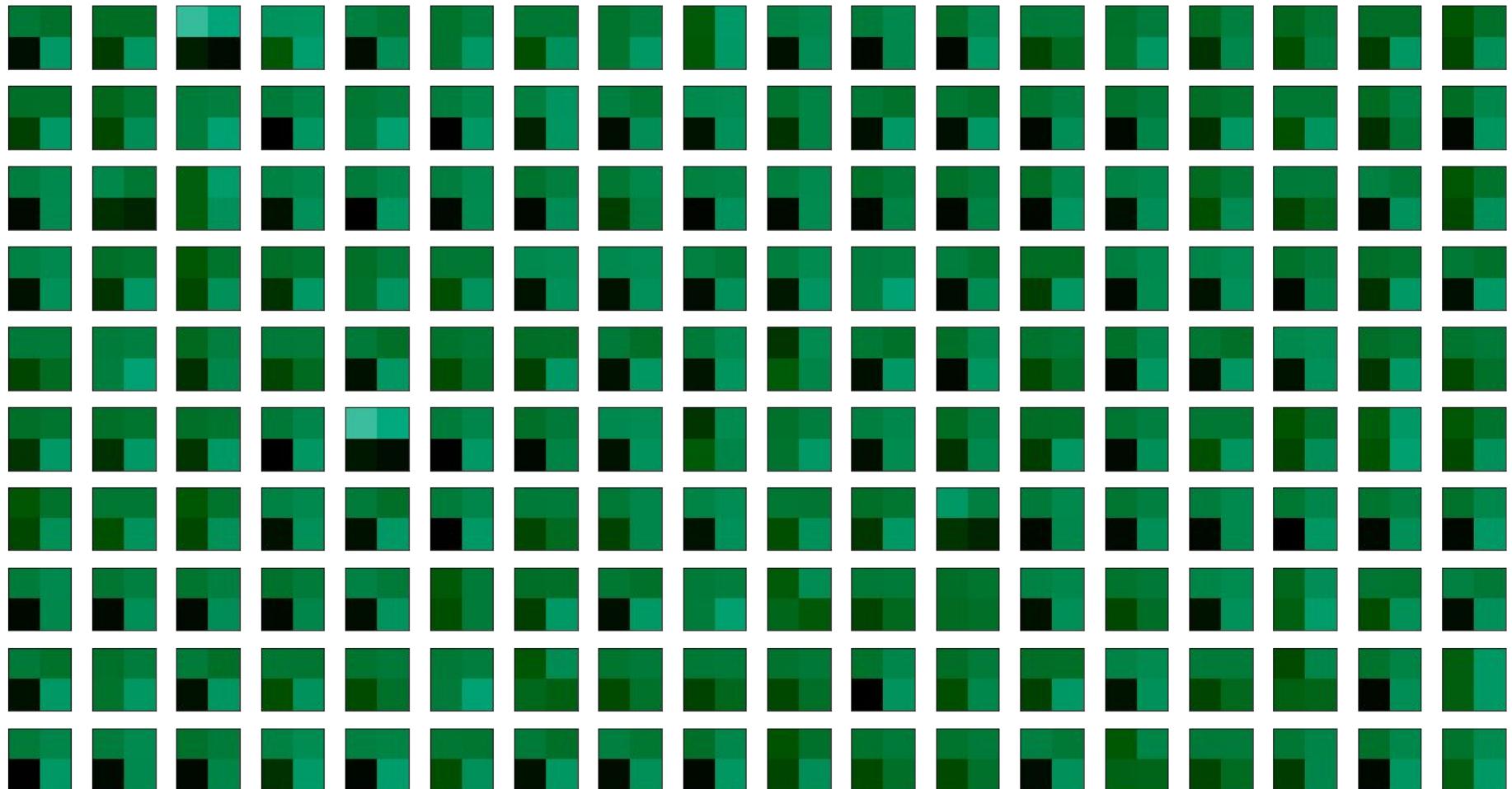
LEAN\_FRONT



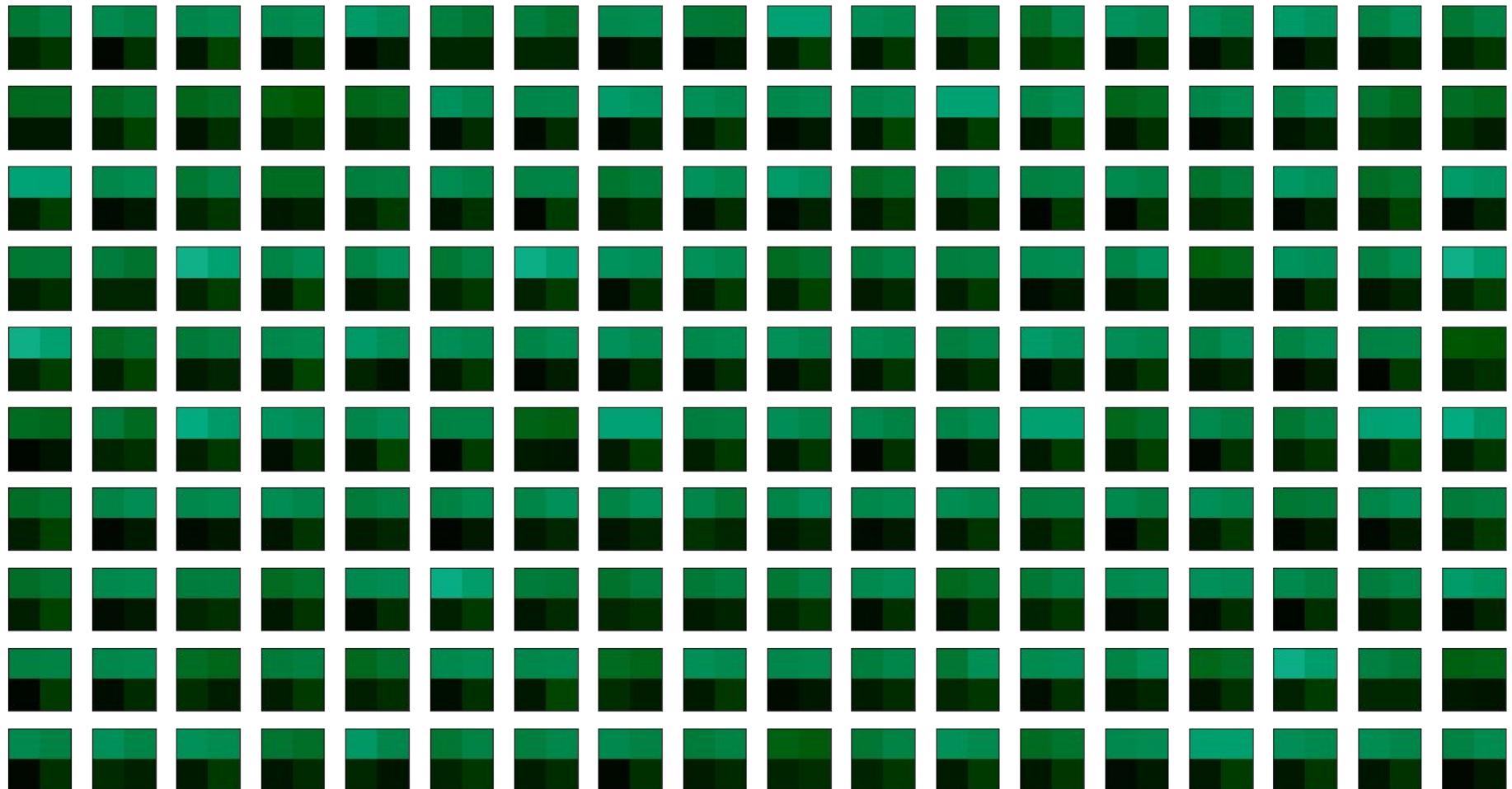
LEAN\_LEFT



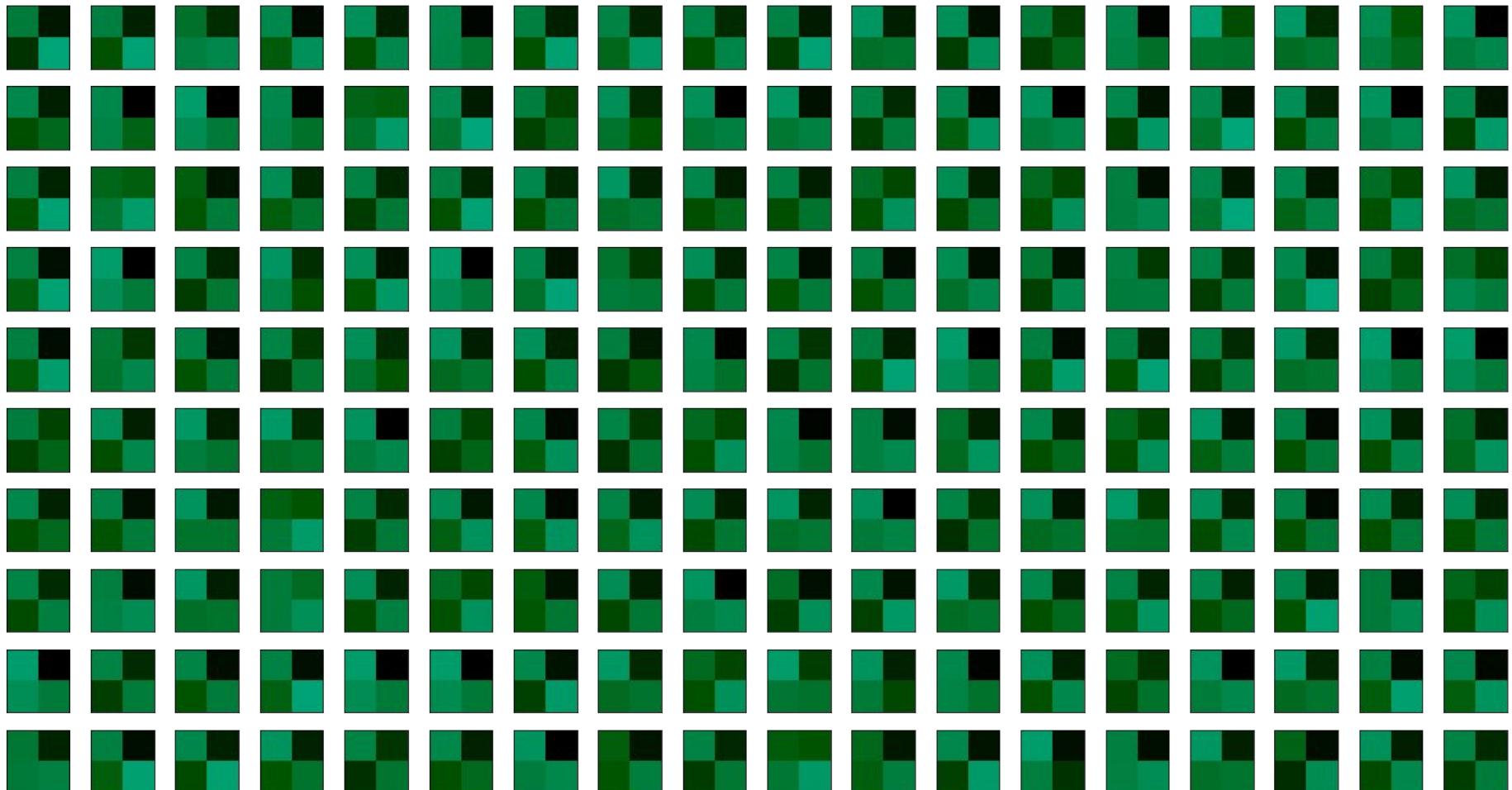
LEAN\_RIGHT



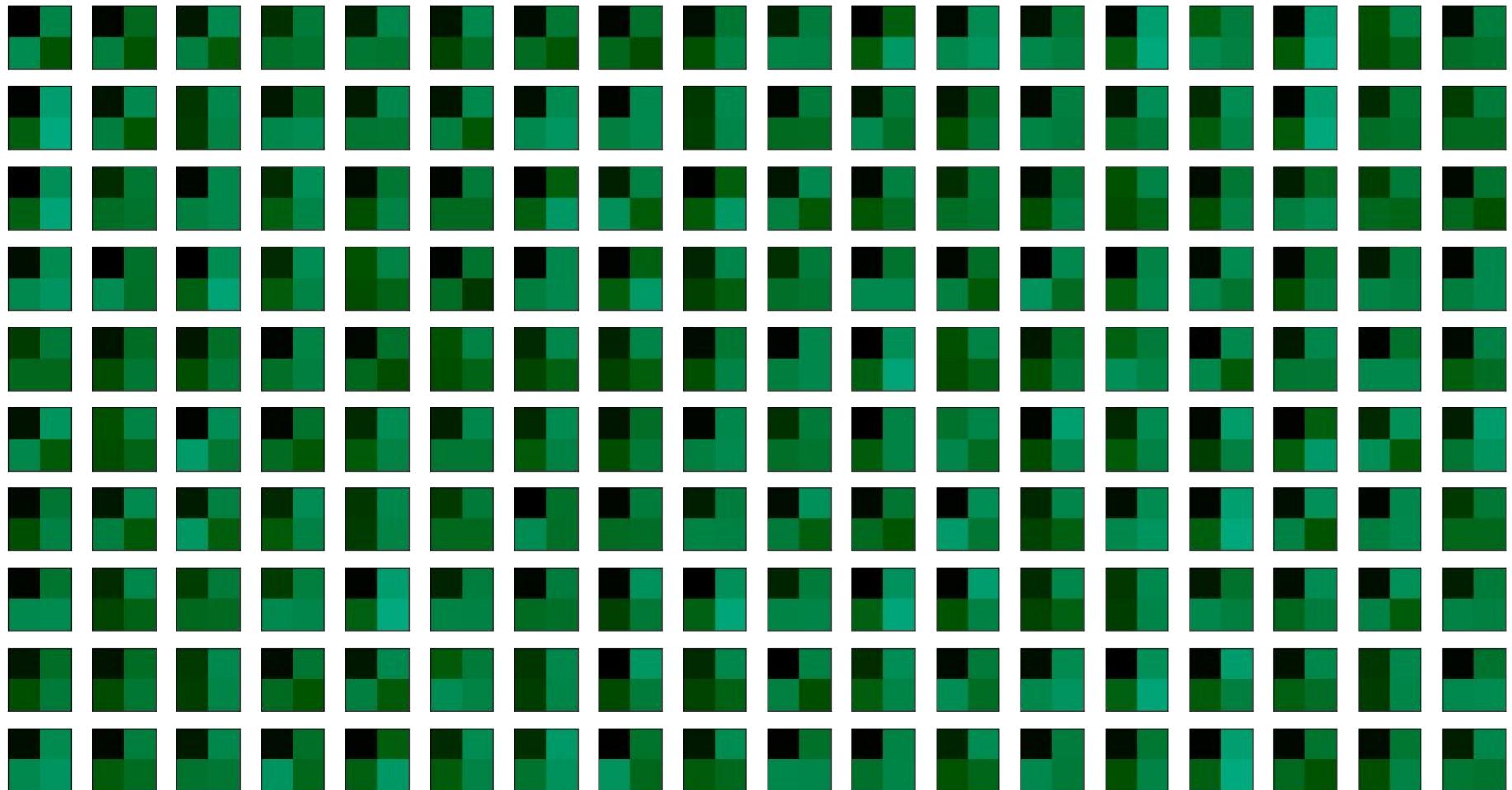
LEAN\_BACK



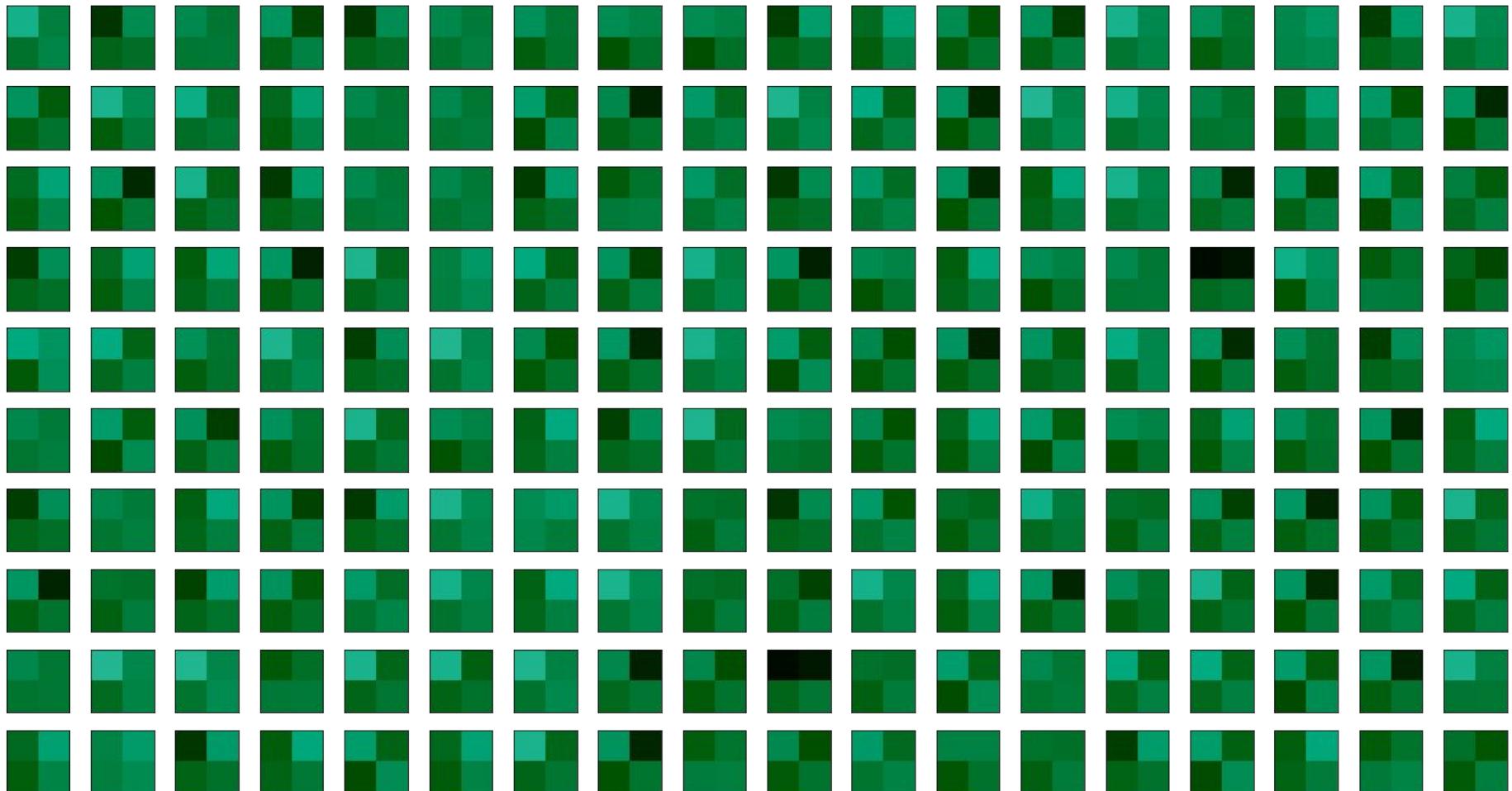
LEG\_RIGHT



LEG\_LEFT



LEG\_CROSSED



LEG\_SPREAD

