#### Results in tables

```
In [1]: import pandas as pd
        import os
        from collections import defaultdict
        from IPython.display import display
In [2]: results_folder = "results"
        model_types = ["cnn14_logstft", "logmel_cnn14"]
        method_names = ["saliency", "gradcam", "lime", "shap"]
        exp_types_mapping = {
            "cnn14_logstft": ["clean"],
"logmel_cnn14": ["clean", "white", "room", "horse"]
        folder_for_tables = "csvs"
In [3]: csv_files = []
        for model in model_types:
            for method in method_names:
                for exp in exp_types_mapping[model]:
                    dir_path = os.path.join(results_folder,
                                             model,
                                             f"{method}_{exp}",
                                             folder for tables)
                    if not os.path.isdir(dir_path):
                        continue
                    for fname in os.listdir(dir_path):
                        if fname.endswith(".csv"):
                            csv_files.append(os.path.join(dir_path, fname))
In [4]: experiment_results = {m: {} for m in model_types}
        for fpath in csv_files:
            parts = fpath.split(os.sep)
            model_type = parts[parts.index(results_folder) + 1]
            method, exp = parts[parts.index(results_folder) + 2].split("_", 1)
            exp_name = f"{method}_{exp}"
            mask_name = os.path.splitext(parts[-1])[0]
            df = pd.read_csv(fpath)
            metrics = df.columns.difference(['sample', 'is_correct'])
            means = df[metrics].mean()
            experiment_results[model_type].setdefault(exp_name, {})[mask_name] = means
In [5]: for model, exps in experiment_results.items():
            for exp_name, mask_dict in exps.items():
               experiment_results[model][exp_name] = pd.DataFrame(mask_dict).T
In [6]: experiment_results_true = {m: {} for m in model_types}
        experiment_results_false = {m: {} for m in model_types}
        for fpath in csv_files:
            parts = fpath.split(os.sep)
            model_type = parts[parts.index(results_folder) + 1]
            method, exp = parts[parts.index(results_folder) + 2].split("_", 1)
            exp_name = f"{method}_{exp}"
            mask_name = os.path.splitext(parts[-1])[0]
            df = pd.read csv(fpath)
            metrics = df.columns.difference(['sample', 'is_correct'])
            means_t = df[df['is_correct'] == True][metrics].mean()
            means_f = df[df['is_correct'] == False][metrics].mean()
            experiment_results_true[model_type].setdefault(exp_name, {})[mask_name] = means_t
            experiment_results_false[model_type].setdefault(exp_name, {})[mask_name] = means_f
        for m in model_types:
            for exp_name, mask_dict in experiment_results_true[m].items():
                experiment_results_true[m][exp_name] = pd.DataFrame(mask_dict).T
            for exp_name, mask_dict in experiment_results_false[m].items():
                experiment_results_false[m][exp_name] = pd.DataFrame(mask_dict).T
In [7]: mask_experiment_results = {m: {} for m in model_types}
        for fpath in csv_files:
            parts = fpath.split(os.sep)
            model_type = parts[parts.index(results_folder) + 1]
            method, exp = parts[parts.index(results_folder) + 2].split("_", 1)
            mask_name = os.path.splitext(parts[-1])[0]
```

```
df = pd.read csv(fpath)
             metrics = df.columns.difference(['sample', 'is_correct'])
             means = df[metrics].mean()
             mask_experiment_results[model_type]\
               .setdefault(exp, {})\
                .setdefault(mask_name, {})[method] = means
         for model, exps in mask_experiment_results.items():
             for exp_type, masks in exps.items():
                 for mask name, methods dict in masks.items():
                     mask_experiment_results[model][exp_type][mask_name] = \
                         pd.DataFrame(methods_dict).T
         column_order = ["FF", "AI", "AG", "FidIn", "SPS", "AD", "COMP"]
invert_metrics = {"AD", "COMP"}
diff_color_cols = {"SPS", "COMP"}
In [8]: column_order
In [9]: def highlight_extremes(col: pd.Series):
             is_invert = col.name in invert_metrics
             use_blue = col.name in diff_color_cols
             mx, mn = col.max(), col.min()
                      = []
             stvles
             for v in col:
                 if use_blue:
                     if is_invert:
                         if v == mn: styles.append('background-color: lightblue; font-weight: bold')
                          elif v == mx: styles.append('background-color: lightsteelblue; font-weight: bold')
                         else: styles.append('')
                      else:
                         if v == mx: styles.append('background-color: lightblue; font-weight: bold')
                          elif v == mn: styles.append('background-color: lightsteelblue; font-weight: bold')
                         else: styles.append('')
                 else:
                      if is invert:
                         if v == mn: styles.append('background-color: lightgreen; font-weight: bold')
                          elif v == mx: styles.append('background-color: lightcoral; font-weight: bold')
                          else: styles.append('')
                      else:
                          if v == mx: styles.append('background-color: lightgreen; font-weight: bold')
                          elif v == mn: styles.append('background-color: lightcoral; font-weight: bold')
                          else: styles.append('')
             return styles
In [10]: def display_experiment_results(results):
             def _show(df, title=None):
                 df = df.reindex(columns=[c for c in column_order if c in df.columns])
                 styled = df.style.apply(highlight_extremes, axis=0)
                 if title:
                     print(f"\n--- {title} ---")
                 display(styled)
             if isinstance(results, pd.DataFrame):
                 _show(results)
             if all(isinstance(v, pd.DataFrame) for v in results.values()):
                 for name, df in results.items():
                      _show(df, title=name)
             for model, exps in results.items():
                 print(f"\n===== MODEL: {model} =====")
                 for name, df in exps.items():
                      _show(df, title=name)
```

#### Mel model - clean

```
In [11]: display_experiment_results(experiment_results["logmel_cnn14"]["saliency_clean"])
```

	FF	AI	AG	FidIn	SPS	AD	COMP
topK_50_pos	0.923978	19.500000	0.030776	0.652500	0.176250	34.762647	3.413026
topK_30_pos	0.924232	0.000000	0.000000	0.015000	0.700006	98.379270	9.171496
minmax_pos	0.765674	0.250000	0.049200	0.087500	0.789556	94.029495	9.025832
topK_5_pos	0.765061	0.000000	0.000000	0.022500	0.949973	97.663678	7.380256
pos_thresh_50	0.033590	0.250000	0.173707	0.015000	0.998819	97.721229	3.123119
topK_50	0.925224	0.000000	0.000000	0.020000	0.500000	98.340200	9.682342
pos_thresh_25	0.267537	0.500000	0.339988	0.022500	0.990411	97.134056	5.498956
bin	0.925166	0.000000	0.000000	0.020000	0.501420	98.346021	9.679453
minmax	0.865298	3.750000	3.182013	0.272500	0.038222	77.518508	10.372004
topK_5	0.765061	0.000000	0.000000	0.022500	0.949973	97.663678	7.380256
topK_30	0.924232	0.000000	0.000000	0.015000	0.700006	98.379270	9.171496
sigmoid	0.494280	3.500000	1.587410	0.705000	0.000435	38.660613	10.375489
sigmoid_pos	0.459920	2.500000	1.172303	0.677500	0.000218	41.394705	10.375489
pos_thresh_75	0.004059	0.000000	0.000000	0.032500	0.998683	97.390892	1.327483

In [12]: display\_experiment\_results(experiment\_results["logmel\_cnn14"]["gradcam\_clean"])

	FF	AI	AG	FidIn	SPS	AD	COMP
topK_50_pos	0.620665	11.250000	0.937880	0.655000	0.376843	38.935879	7.311478
topK_30_pos	0.362573	7.500000	0.592328	0.447500	0.594134	60.988887	7.798657
minmax_pos	0.431521	0.750000	0.675450	0.362500	0.396169	70.568771	9.305840
topK_5_pos	0.079036	2.500000	0.000586	0.140000	0.889484	88.365241	6.940669
pos_thresh_50	0.365905	4.750000	1.725173	0.460000	0.539708	60.330152	8.580231
topK_50	0.525057	4.250000	2.337507	0.550000	0.499072	50.483148	9.684185
pos_thresh_25	0.599441	12.250000	2.856096	0.682500	0.347645	37.203954	7.528248
bin	0.719301	21.500000	2.344471	0.782500	0.195540	24.415372	4.918489
minmax	0.513954	1.250000	0.772345	0.392500	0.335306	66.666616	10.150722
topK_5	0.030442	0.000000	0.000000	0.095000	0.948799	93.796811	7.403085
topK_30	0.273740	2.000000	0.822263	0.355000	0.698777	71.296085	9.175542
sigmoid	0.503141	2.000000	0.972663	0.677500	0.026292	41.577628	10.373997
sigmoid_pos	0.509001	2.750000	1.287837	0.672500	0.021328	41.110658	9.803656
pos_thresh_75	0.158462	0.250000	0.220969	0.220000	0.782444	83.858354	7.872584

In [13]: display\_experiment\_results(experiment\_results["logmel\_cnn14"]["lime\_clean"])

	FF	AI	AG	FidIn	SPS	AD	COMP
topK_50_pos	0.827965	13.750000	5.367577	0.755000	0.460687	30.268507	9.411879
topK_30_pos	0.623068	10.000000	4.776571	0.550000	0.674052	49.213681	9.252109
minmax_pos	0.755739	3.500000	1.596777	0.437500	0.547097	60.692678	9.738116
topK_5_pos	0.158620	2.000000	1.222816	0.305000	0.913671	72.956990	7.874178
pos_thresh_50	0.493181	3.000000	1.669558	0.472500	0.748397	58.130710	8.789097
topK_50	0.826212	13.750000	6.091994	0.747500	0.475981	30.978062	9.728370
pos_thresh_25	0.801759	9.500000	4.611255	0.702500	0.562260	34.795579	9.407741
bin	0.900067	29.250000	12.582630	0.932500	0.198701	8.220830	9.588828
minmax	0.788149	4.250000	2.253361	0.487500	0.392208	56.334667	10.071627
topK_5	0.158620	2.000000	1.222816	0.305000	0.913671	72.956990	7.874178
topK_30	0.623068	10.000000	4.776571	0.550000	0.674052	49.213681	9.252109
sigmoid	0.497468	2.000000	0.959788	0.677500	0.014293	42.361412	10.374873
sigmoid_pos	0.496658	2.000000	0.966856	0.675000	0.013022	42.472529	10.374929
pos_thresh_75	0.238357	3.250000	1.655698	0.350000	0.861851	68.144398	8.185629

In [14]: display\_experiment\_results(experiment\_results["logmel\_cnn14"]["shap\_clean"])

	FF	AI	AG	FidIn	SPS	AD	COMP
topK_50_pos	0.927127	0.000000	0.000000	0.017500	0.500000	98.489148	9.682342
topK_30_pos	0.920322	0.000000	0.000000	0.015000	0.700006	98.376756	9.171496
minmax_pos	0.742942	0.000000	0.000000	0.017500	0.730384	98.140790	9.325663
topK_5_pos	0.644688	0.000000	0.000000	0.027500	0.949973	97.529223	7.380256
pos_thresh_50	0.059366	0.250000	0.190183	0.025000	0.996374	97.753458	4.424030
topK_50	0.927127	0.000000	0.000000	0.017500	0.500000	98.489148	9.682342
pos_thresh_25	0.514174	0.000000	0.000000	0.020000	0.955756	97.999605	7.109134
bin	0.927023	0.000000	0.000000	0.015000	0.488779	98.448436	9.704492
minmax	0.896360	0.000000	0.000000	0.080000	0.069193	93.938898	10.366691
topK_5	0.644688	0.000000	0.000000	0.027500	0.949973	97.529223	7.380256
topK_30	0.920322	0.000000	0.000000	0.015000	0.700006	98.376756	9.171496
sigmoid	0.411536	1.750000	0.706118	0.635000	0.001600	45.858975	10.375483
sigmoid_pos	0.413540	2.000000	0.717578	0.632500	0.000816	45.765689	10.375487
pos_thresh_75	0.000943	0.000000	0.000000	0.027500	0.998980	97.767957	1.983555

## STFT model - clean

In [15]: display\_experiment\_results(experiment\_results["cnn14\_logstft"]["saliency\_clean"])

	FF	AI	AG	FidIn	SPS	AD	СОМР
topK_50_pos	0.804260	23.000000	0.005567	0.515000	0.246247	48.375174	5.221556
topK_30_pos	0.775904	1.000000	0.693553	0.027500	0.699991	96.591307	10.091336
minmax_pos	0.793775	1.250000	0.376756	0.045000	0.783133	94.490105	9.997836
topK_5_pos	0.616458	0.750000	0.564025	0.032500	0.949986	96.526038	8.299783
pos_thresh_50	0.031187	0.500000	0.244557	0.030000	0.999007	96.525065	3.675487
topK_50	0.791538	0.500000	0.428297	0.025000	0.499994	96.391408	10.602145
pos_thresh_25	0.220229	1.000000	0.120974	0.037500	0.991122	95.673791	6.327209
bin	0.791234	0.500000	0.428138	0.025000	0.500300	96.423009	10.601499
minmax	0.787943	10.000000	6.311180	0.345000	0.038136	66.198419	11.292009
topK_5	0.616458	0.750000	0.564025	0.032500	0.949986	96.526038	8.299783
topK_30	0.775904	1.000000	0.693553	0.027500	0.699991	96.591307	10.091336
sigmoid	0.643463	2.500000	0.837945	0.202500	0.000142	79.326934	11.295279
sigmoid_pos	0.641395	2.000000	0.750859	0.197500	0.000071	79.565120	11.295279
pos_thresh_75	0.006409	0.000000	0.000000	0.012500	0.997725	97.249695	1.619247

In [16]: display\_experiment\_results(experiment\_results["cnn14\_logstft"]["gradcam\_clean"])

	FF	AI	AG	FidIn	SPS	AD	COMP
topK_50_pos	0.724521	22.750000	0.212617	0.700000	0.224973	31.095250	4.771013
topK_30_pos	0.572838	13.500000	0.218326	0.520000	0.440970	50.516011	6.357624
minmax_pos	0.320162	0.500000	0.087145	0.100000	0.610099	90.740430	9.345481
topK_5_pos	0.191101	4.750000	0.070849	0.160000	0.835977	84.389165	7.304025
pos_thresh_50	0.267266	0.250000	0.207852	0.117500	0.762309	89.263071	8.491924
topK_50	0.585988	4.000000	1.156712	0.435000	0.499936	59.905164	10.602260
pos_thresh_25	0.398405	2.250000	0.982882	0.270000	0.600836	73.915097	9.141945
bin	0.474271	9.250000	1.076550	0.505000	0.451469	54.052505	8.473753
minmax	0.567426	1.750000	0.522353	0.262500	0.295463	75.670870	11.139101
topK_5	0.114918	0.250000	0.070103	0.042500	0.949974	95.884257	8.300031
topK_30	0.425778	1.750000	0.694706	0.272500	0.699955	76.861480	10.091457
sigmoid	0.634945	1.750000	0.747129	0.190000	0.014195	80.017408	11.294890
sigmoid_pos	0.645249	2.250000	0.778186	0.205000	0.007431	79.145813	10.504438
pos_thresh_75	0.101654	0.000000	0.000000	0.050000	0.879791	95.191847	7.329040

In [17]: display\_experiment\_results(experiment\_results["cnn14\_logstft"]["lime\_clean"])

	FF	AI	AG	FidIn	SPS	AD	COMP
topK_50_pos	0.765800	15.500000	8.450201	0.442500	0.473102	55.774762	10.191675
topK_30_pos	0.694406	10.000000	5.281612	0.345000	0.691540	66.936226	10.118867
minmax_pos	0.637870	1.000000	0.381859	0.182500	0.621597	84.515637	10.526510
topK_5_pos	0.243031	0.750000	0.135247	0.135000	0.936590	89.532042	8.526989
pos_thresh_50	0.433959	0.750000	0.290252	0.182500	0.869844	84.201880	9.094784
topK_50	0.765135	14.750000	8.862266	0.415000	0.492814	58.199032	10.616330
pos_thresh_25	0.677671	5.500000	2.461060	0.327500	0.699007	69.090076	9.976185
bin	0.788757	25.000000	13.723769	0.677500	0.272594	32.426248	10.960349
minmax	0.689437	2.750000	1.586585	0.237500	0.310267	77.675293	11.106747
topK_5	0.243031	0.750000	0.135247	0.135000	0.936590	89.532042	8.526989
topK_30	0.694406	10.000000	5.281612	0.345000	0.691540	66.936226	10.118867
sigmoid	0.647799	2.500000	0.864931	0.217500	0.007558	78.280602	11.295109
sigmoid_pos	0.648592	2.500000	0.868853	0.222500	0.006366	78.255852	11.295133
pos_thresh_75	0.208866	0.250000	0.079001	0.120000	0.943331	90.890364	8.255963

In [18]: display\_experiment\_results(experiment\_results["cnn14\_logstft"]["shap\_clean"])

	FF	AI	AG	FidIn	SPS	AD	СОМР
topK_50_pos	0.802138	4.500000	0.378346	0.117500	0.448744	88.001383	9.515425
topK_30_pos	0.763902	0.500000	0.387124	0.027500	0.699991	97.378701	10.091336
minmax_pos	0.455324	0.250000	0.026467	0.020000	0.733023	96.696586	10.238195
topK_5_pos	0.444992	0.250000	0.030067	0.017500	0.949986	96.537593	8.299783
pos_thresh_50	0.042822	0.750000	0.169460	0.010000	0.997583	97.548443	4.935369
topK_50	0.797199	0.500000	0.377015	0.020000	0.499994	97.530267	10.602145
pos_thresh_25	0.325784	0.000000	0.000000	0.020000	0.963614	97.009564	7.850699
bin	0.796336	0.500000	0.376223	0.020000	0.491457	97.488084	10.618963
minmax	0.758162	1.250000	0.592648	0.085000	0.072735	92.499063	11.285742
topK_5	0.444992	0.250000	0.030067	0.017500	0.949986	96.537593	8.299783
topK_30	0.763902	0.500000	0.387124	0.027500	0.699991	97.378701	10.091336
sigmoid	0.638557	2.000000	0.677229	0.190000	0.000569	79.908976	11.295279
sigmoid_pos	0.638847	2.000000	0.679610	0.192500	0.000291	79.869429	11.295279
pos_thresh_75	0.000924	0.250000	0.015379	0.012500	0.998292	97.660090	2.156133

#### Mel model clean - correct

In [19]: display\_experiment\_results(experiment\_results\_true["logmel\_cnn14"]["saliency\_clean"])

	FF	AI	AG	FidIn	SPS	AD	COMP
topK_50_pos	0.945930	18.970190	0.032772	0.672087	0.166667	32.913612	3.227447
topK_30_pos	0.945553	0.000000	0.000000	0.016260	0.700006	98.370145	9.171496
minmax_pos	0.779188	0.000000	0.000000	0.092141	0.788301	94.155389	9.036207
topK_5_pos	0.777622	0.000000	0.000000	0.024390	0.949973	97.663282	7.380256
pos_thresh_50	0.028512	0.271003	0.188301	0.016260	0.998818	97.860160	3.128258
topK_50	0.946395	0.000000	0.000000	0.021680	0.500000	98.327665	9.682342
pos_thresh_25	0.260724	0.271003	0.181759	0.021680	0.990392	97.348120	5.510513
bin	0.946325	0.000000	0.000000	0.021680	0.501540	98.333468	9.679220
minmax	0.882657	4.065041	3.449337	0.281843	0.038650	76.541254	10.371956
topK_5	0.777622	0.000000	0.000000	0.024390	0.949973	97.663282	7.380256
topK_30	0.945553	0.000000	0.000000	0.016260	0.700006	98.370145	9.171496
sigmoid	0.487244	3.252033	1.560135	0.731707	0.000438	36.222575	10.375489
sigmoid_pos	0.451763	2.710027	1.270789	0.710027	0.000220	38.729214	10.375489
pos_thresh_75	0.005015	0.000000	0.000000	0.035230	0.998675	97.617022	1.321583

In [20]: display\_experiment\_results(experiment\_results\_true["logmel\_cnn14"]["gradcam\_clean"])

	FF	AI	AG	FidIn	SPS	AD	COMP
topK_50_pos	0.629946	10.840108	0.827032	0.669377	0.384187	38.173037	7.453263
topK_30_pos	0.361826	6.775068	0.433512	0.449864	0.604239	61.372235	7.931778
minmax_pos	0.442244	0.542005	0.497610	0.379404	0.388991	69.413360	9.366266
topK_5_pos	0.077348	2.439024	0.000478	0.138211	0.892247	88.709117	6.961417
pos_thresh_50	0.376747	4.336043	1.595904	0.476965	0.535282	58.906517	8.656260
topK_50	0.534277	4.065041	2.204332	0.579946	0.499103	48.469677	9.684124
pos_thresh_25	0.619369	11.924119	2.839814	0.710027	0.339970	35.021535	7.534216
bin	0.744318	20.596206	2.103116	0.802168	0.185936	22.377705	4.848194
minmax	0.523829	1.084011	0.568553	0.411924	0.336620	65.367192	10.149168
topK_5	0.028166	0.000000	0.000000	0.094851	0.948831	93.912992	7.402479
topK_30	0.275819	1.897019	0.683197	0.373984	0.698786	70.145173	9.175513
sigmoid	0.501387	2.168022	1.054378	0.712737	0.027385	38.409675	10.373904
sigmoid_pos	0.507608	2.981030	1.396029	0.712737	0.022404	37.904101	9.839989
pos_thresh_75	0.162266	0.271003	0.239533	0.227642	0.782927	83.319826	7.925617

In [21]: display\_experiment\_results(experiment\_results\_true["logmel\_cnn14"]["lime\_clean"])

	FF	AI	AG	FidIn	SPS	AD	COMP
topK_50_pos	0.848128	13.821138	5.541111	0.777778	0.461713	28.734748	9.438559
topK_30_pos	0.631443	9.485095	4.680134	0.563686	0.673673	48.357686	9.253320
minmax_pos	0.770707	3.252033	1.445030	0.460705	0.542873	59.269855	9.752387
topK_5_pos	0.145094	1.355014	0.881278	0.311653	0.912832	72.466547	7.882877
pos_thresh_50	0.499723	2.710027	1.461609	0.490515	0.743620	56.924556	8.820354
topK_50	0.846282	13.821138	6.209903	0.772358	0.475805	29.233836	9.728735
pos_thresh_25	0.817317	9.214092	4.473934	0.731707	0.556291	32.729904	9.431148
bin	0.921885	28.997290	12.928927	0.953930	0.194439	6.339726	9.605351
minmax	0.804573	4.065041	2.057597	0.509485	0.394021	54.719502	10.071695
topK_5	0.145094	1.355014	0.881278	0.311653	0.912832	72.466547	7.882877
topK_30	0.631443	9.485095	4.680134	0.563686	0.673673	48.357686	9.253320
sigmoid	0.493175	2.168022	1.040421	0.704607	0.014481	39.743480	10.374858
sigmoid_pos	0.492278	2.168022	1.048082	0.701897	0.013282	39.865358	10.374911
pos_thresh_75	0.230002	2.710027	1.442399	0.363144	0.858747	67.195598	8.210477

In [22]: display\_experiment\_results(experiment\_results\_true["logmel\_cnn14"]["shap\_clean"])

	FF	AI	AG	FidIn	SPS	AD	COMP
topK_50_pos	0.948405	0.000000	0.000000	0.018970	0.500000	98.487201	9.682342
topK_30_pos	0.942525	0.000000	0.000000	0.016260	0.700006	98.375310	9.171496
minmax_pos	0.756793	0.000000	0.000000	0.018970	0.730700	98.266188	9.324414
topK_5_pos	0.660254	0.000000	0.000000	0.027100	0.949973	97.559893	7.380256
pos_thresh_50	0.056377	0.000000	0.000000	0.021680	0.996380	97.994351	4.427682
topK_50	0.948405	0.000000	0.000000	0.018970	0.500000	98.487201	9.682342
pos_thresh_25	0.523994	0.000000	0.000000	0.018970	0.955952	98.076229	7.102217
bin	0.948275	0.000000	0.000000	0.016260	0.488946	98.450214	9.704169
minmax	0.916186	0.000000	0.000000	0.084011	0.069038	93.862954	10.366718
topK_5	0.660254	0.000000	0.000000	0.027100	0.949973	97.559893	7.380256
topK_30	0.942525	0.000000	0.000000	0.016260	0.700006	98.375310	9.171496
sigmoid	0.402462	1.897019	0.765439	0.672087	0.001581	43.058859	10.375483
sigmoid_pos	0.404588	2.168022	0.777862	0.669377	0.000807	42.974520	10.375487
pos_thresh_75	0.001610	0.000000	0.000000	0.024390	0.998985	98.047740	1.986147

## Mel model clean - incorrect

In [23]: display\_experiment\_results(experiment\_results\_false["logmel\_cnn14"]["saliency\_clean"])

	FF	AI	AG	FidIn	SPS	AD	СОМР
topK_50_pos	0.662683	25.806452	0.007012	0.419355	0.290323	56.772124	5.622005
topK_30_pos	0.670452	0.000000	0.000000	0.000000	0.700006	98.487889	9.171496
minmax_pos	0.604809	3.225806	0.634842	0.032258	0.804490	92.530957	8.902336
topK_5_pos	0.615548	0.000000	0.000000	0.000000	0.949973	97.668387	7.380256
pos_thresh_50	0.094023	0.000000	0.000000	0.000000	0.998830	96.067506	3.061940
topK_50	0.673223	0.000000	0.000000	0.000000	0.500000	98.489405	9.682342
pos_thresh_25	0.348635	3.225806	2.223423	0.032258	0.990646	94.585996	5.361396
bin	0.673297	0.000000	0.000000	0.000000	0.499992	98.495439	9.682235
minmax	0.658673	0.000000	0.000000	0.161290	0.033131	89.150973	10.372574
topK_5	0.615548	0.000000	0.000000	0.000000	0.949973	97.668387	7.380256
topK_30	0.670452	0.000000	0.000000	0.000000	0.700006	98.487889	9.171496
sigmoid	0.578034	6.451613	1.912073	0.387097	0.000389	67.681129	10.375489
sigmoid_pos	0.557014	0.000000	0.000000	0.290323	0.000194	73.122639	10.375489
pos_thresh_75	-0.007319	0.000000	0.000000	0.000000	0.998778	94.699209	1.397713

In [24]: display\_experiment\_results(experiment\_results\_false["logmel\_cnn14"]["gradcam\_clean"])

	FF	AI	AG	FidIn	SPS	AD	COMP
topK_50_pos	0.510193	16.129032	2.257326	0.483871	0.289423	48.016166	5.623788
topK_30_pos	0.371457	16.129032	2.482751	0.419355	0.473852	56.425804	6.214097
minmax_pos	0.303876	3.225806	2.792318	0.161290	0.481611	84.321882	8.586580
topK_5_pos	0.099126	3.225806	0.001865	0.161290	0.856600	84.272004	6.693700
pos_thresh_50	0.236848	9.677419	3.263896	0.258065	0.592389	77.276004	7.675247
topK_50	0.415306	6.451613	3.922723	0.193548	0.498703	74.449956	9.684918
pos_thresh_25	0.362229	16.129032	3.049895	0.354839	0.439003	63.181778	7.457209
bin	0.421516	32.258065	5.217375	0.548387	0.309858	48.670189	5.755226
minmax	0.396398	3.225806	3.198132	0.161290	0.319672	82.133953	10.169226
topK_5	0.057536	0.000000	0.000000	0.096774	0.948411	92.413879	7.410300
topK_30	0.249003	3.225806	2.477605	0.129032	0.698672	84.995646	9.175883
sigmoid	0.524023	0.000000	0.000000	0.258065	0.013288	79.286488	10.375098
sigmoid_pos	0.525584	0.000000	0.000000	0.193548	0.008517	79.279032	9.371172
pos_thresh_75	0.113171	0.000000	0.000000	0.129032	0.776694	90.268567	7.241315

In [25]: display\_experiment\_results(experiment\_results\_false["logmel\_cnn14"]["lime\_clean"])

	FF	AI	AG	FidIn	SPS	AD	COMP
topK_50_pos	0.587966	12.903226	3.301967	0.483871	0.448474	48.525184	9.094302
topK_30_pos	0.523378	16.129032	5.924479	0.387097	0.678558	59.402784	9.237693
minmax_pos	0.577573	6.451613	3.403052	0.161290	0.597369	77.628871	9.568252
topK_5_pos	0.319619	9.677419	5.288215	0.225806	0.923666	78.794837	7.770636
pos_thresh_50	0.415311	6.451613	4.144820	0.258065	0.805263	72.487831	8.417035
topK_50	0.587315	12.903226	4.688493	0.451613	0.478075	51.739974	9.724026
pos_thresh_25	0.616573	12.903226	6.245823	0.354839	0.633312	59.383782	9.129119
bin	0.640355	32.258065	8.460583	0.677419	0.249431	30.612040	9.392148
minmax	0.592647	6.451613	4.583587	0.225806	0.370629	75.560343	10.070813
topK_5	0.319619	9.677419	5.288215	0.225806	0.923666	78.794837	7.770636
topK_30	0.523378	16.129032	5.924479	0.387097	0.678558	59.402784	9.237693
sigmoid	0.548571	0.000000	0.000000	0.354839	0.012047	73.523246	10.375056
sigmoid_pos	0.548792	0.000000	0.000000	0.354839	0.009927	73.506275	10.375140
pos_thresh_75	0.337816	9.677419	4.194638	0.193548	0.898795	79.438178	7.889867

In [26]: display\_experiment\_results(experiment\_results\_false["logmel\_cnn14"]["shap\_clean"])

	FF	Al	AG	FidIn	SPS	AD	COMP
topK_50_pos	0.673850	0.000000	0.000000	0.000000	0.500000	98.512321	9.682342
topK_30_pos	0.656034	0.000000	0.000000	0.000000	0.700006	98.393957	9.171496
minmax_pos	0.578065	0.000000	0.000000	0.000000	0.726615	96.648140	9.340534
topK_5_pos	0.459405	0.000000	0.000000	0.032258	0.949973	97.164145	7.380256
pos_thresh_50	0.094939	3.225806	2.453978	0.064516	0.996303	94.886048	4.380559
topK_50	0.673850	0.000000	0.000000	0.000000	0.500000	98.512321	9.682342
pos_thresh_25	0.397285	0.000000	0.000000	0.032258	0.953419	97.087541	7.191464
bin	0.674056	0.000000	0.000000	0.000000	0.486790	98.427281	9.708335
minmax	0.660356	0.000000	0.000000	0.032258	0.071041	94.842871	10.366376
topK_5	0.459405	0.000000	0.000000	0.032258	0.949973	97.164145	7.380256
topK_30	0.656034	0.000000	0.000000	0.000000	0.700006	98.393957	9.171496
sigmoid	0.519548	0.000000	0.000000	0.193548	0.001829	79.189383	10.375480
sigmoid_pos	0.520102	0.000000	0.000000	0.193548	0.000934	78.989614	10.375486
pos_thresh_75	-0.006999	0.000000	0.000000	0.064516	0.998926	94.437635	1.952701

### STFT model clean - correct

In [27]: display\_experiment\_results(experiment\_results\_true["cnn14\_logstft"]["saliency\_clean"])

	FF	AI	AG	FidIn	SPS	AD	COMP
topK_50_pos	0.866410	23.076923	0.005975	0.522436	0.243587	47.617132	5.165147
topK_30_pos	0.838020	0.320513	0.021971	0.025641	0.699991	96.748331	10.091336
minmax_pos	0.851297	0.320513	0.040220	0.035256	0.781553	95.607656	10.009095
topK_5_pos	0.645838	0.000000	0.000000	0.032051	0.949986	96.687431	8.299783
pos_thresh_50	0.024674	0.320513	0.126726	0.032051	0.999011	96.979126	3.704649
topK_50	0.853125	0.000000	0.000000	0.025641	0.499994	96.306254	10.602145
pos_thresh_25	0.208138	0.320513	0.027461	0.041667	0.991009	95.790497	6.354969
bin	0.852824	0.000000	0.000000	0.025641	0.500341	96.340087	10.601417
minmax	0.848556	8.333333	5.496692	0.375000	0.038378	65.436223	11.291996
topK_5	0.645838	0.000000	0.000000	0.032051	0.949986	96.687431	8.299783
topK_30	0.838020	0.320513	0.021971	0.025641	0.699991	96.748331	10.091336
sigmoid	0.678716	1.923077	0.405324	0.237179	0.000143	77.096148	11.295279
sigmoid_pos	0.676643	1.282051	0.318949	0.230769	0.000071	77.316157	11.295279
pos_thresh_75	0.004874	0.000000	0.000000	0.012821	0.997840	97.719374	1.658670

In [28]: display\_experiment\_results(experiment\_results\_true["cnn14\_logstft"]["gradcam\_clean"])

	FF	Al	AG	FidIn	SPS	AD	COMP
topK_50_pos	0.777537	19.871795	0.229193	0.695513	0.237154	31.839248	5.029267
topK_30_pos	0.595320	11.217949	0.278986	0.522436	0.462153	51.317862	6.662939
minmax_pos	0.337147	0.000000	0.000000	0.108974	0.618447	90.444478	9.652124
topK_5_pos	0.171753	2.884615	0.090336	0.125000	0.873857	88.456219	7.634906
pos_thresh_50	0.282332	0.320513	0.266477	0.128205	0.777214	88.956253	8.771847
topK_50	0.621205	3.205128	1.196029	0.487179	0.499942	56.961889	10.602248
pos_thresh_25	0.427319	2.243590	0.799062	0.317308	0.609433	71.119206	9.441525
bin	0.510301	8.333333	1.021901	0.570513	0.452114	49.831371	8.809130
minmax	0.596390	0.961538	0.061781	0.307692	0.302406	73.576446	11.132307
topK_5	0.113153	0.320513	0.089875	0.044872	0.949976	96.207448	8.299984
topK_30	0.438769	1.282051	0.498345	0.314103	0.699965	74.868409	10.091423
sigmoid	0.669625	0.961538	0.350609	0.221154	0.015088	77.747405	11.294846
sigmoid_pos	0.681240	1.602564	0.399147	0.240385	0.008154	76.818045	10.752045
pos_thresh_75	0.098543	0.000000	0.000000	0.060897	0.900662	95.369548	7.564874

In [29]: display\_experiment\_results(experiment\_results\_true["cnn14\_logstft"]["lime\_clean"])

	FF	AI	AG	FidIn	SPS	AD	COMP
topK_50_pos	0.820985	14.743590	8.545982	0.480769	0.478677	52.940057	10.309938
topK_30_pos	0.736093	9.935897	5.415430	0.387821	0.691284	64.147520	10.119697
minmax_pos	0.667119	0.320513	0.161871	0.201923	0.618132	83.047502	10.538618
topK_5_pos	0.234263	0.320513	0.047517	0.153846	0.936504	89.609440	8.528447
pos_thresh_50	0.442875	0.641026	0.260263	0.205128	0.866237	82.786573	9.126111
topK_50	0.820781	14.423077	8.748141	0.461538	0.492917	54.483909	10.616132
pos_thresh_25	0.720153	5.769231	2.569530	0.381410	0.695557	65.453288	9.991215
bin	0.851323	25.000000	14.120740	0.743590	0.263509	27.553832	10.974227
minmax	0.728708	1.602564	0.830314	0.266026	0.322588	75.729636	11.094671
topK_5	0.234263	0.320513	0.047517	0.153846	0.936504	89.609440	8.528447
topK_30	0.736093	9.935897	5.415430	0.387821	0.691284	64.147520	10.119697
sigmoid	0.683605	1.923077	0.575819	0.256410	0.008031	75.853481	11.295088
sigmoid_pos	0.684606	1.923077	0.576094	0.259615	0.006891	75.802744	11.295113
pos_thresh_75	0.205615	0.000000	0.000000	0.137821	0.941227	90.321264	8.300359

In [30]: display\_experiment\_results(experiment\_results\_true["cnn14\_logstft"]["shap\_clean"])

	FF	AI	AG	FidIn	SPS	AD	COMP
topK_50_pos	0.866933	4.487179	0.001551	0.128205	0.442302	86.934163	9.378820
topK_30_pos	0.819398	0.320513	0.247118	0.025641	0.699991	97.677298	10.091335
minmax_pos	0.494781	0.000000	0.000000	0.022436	0.733112	97.260519	10.237796
topK_5_pos	0.476378	0.000000	0.000000	0.012821	0.949986	97.281144	8.299783
pos_thresh_50	0.045233	0.641026	0.145409	0.009615	0.997592	97.714895	4.940612
topK_50	0.860424	0.000000	0.000000	0.019231	0.499994	97.549073	10.602145
pos_thresh_25	0.342215	0.000000	0.000000	0.022436	0.963501	97.021458	7.854683
bin	0.859372	0.000000	0.000000	0.019231	0.491929	97.497676	10.618033
minmax	0.817469	0.641026	0.473359	0.089744	0.072855	92.577829	11.285715
topK_5	0.476378	0.000000	0.000000	0.012821	0.949986	97.281144	8.299783
topK_30	0.819398	0.320513	0.247118	0.025641	0.699991	97.677298	10.091335
sigmoid	0.673724	1.282051	0.249408	0.224359	0.000562	77.652123	11.295279
sigmoid_pos	0.674050	1.282051	0.252940	0.227564	0.000287	77.608848	11.295279
pos_thresh_75	0.000823	0.320513	0.019716	0.012821	0.998282	97.945914	2.146913

#### STFT model clean - incorrect

In [31]: display\_experiment\_results(experiment\_results\_false["cnn14\_logstft"]["saliency\_clean"])

	FF	Al	AG	FidIn	SPS	AD	COMP
topK_50_pos	0.583908	22.727273	0.004124	0.488636	0.255679	51.062776	5.421551
topK_30_pos	0.555673	3.409091	3.074615	0.034091	0.699991	96.034585	10.091335
minmax_pos	0.589837	4.545455	1.569927	0.079545	0.788735	90.527881	9.957920
topK_5_pos	0.512291	3.409091	2.563749	0.034091	0.949986	95.953828	8.299783
pos_thresh_50	0.054281	1.136364	0.662321	0.022727	0.998991	94.915210	3.572095
topK_50	0.573182	2.272727	1.946803	0.022727	0.499994	96.693319	10.602145
pos_thresh_25	0.263098	3.409091	0.452522	0.022727	0.991520	95.260016	6.228787
bin	0.572869	2.272727	1.946081	0.022727	0.500156	96.717004	10.601787
minmax	0.573042	15.909091	9.198908	0.238636	0.037279	68.900749	11.292055
topK_5	0.512291	3.409091	2.563749	0.034091	0.949986	95.953828	8.299783
topK_30	0.555673	3.409091	3.074615	0.034091	0.699991	96.034585	10.091335
sigmoid	0.518474	4.545455	2.371785	0.079545	0.000139	87.236086	11.295279
sigmoid_pos	0.516426	4.545455	2.282174	0.079545	0.000069	87.538718	11.295279
pos_thresh_75	0.011852	0.000000	0.000000	0.011364	0.997319	95.584470	1.479476

In [32]: display\_experiment\_results(experiment\_results\_false["cnn14\_logstft"]["gradcam\_clean"])

	FF	AI	AG	FidIn	SPS	AD	COMP
topK_50_pos	0.536556	32.954545	0.153847	0.715909	0.181786	28.457441	3.855386
topK_30_pos	0.493130	21.590909	0.003256	0.511364	0.365866	47.673087	5.275143
minmax_pos	0.259943	2.272727	0.396112	0.068182	0.580500	91.789716	8.258293
topK_5_pos	0.259700	11.363636	0.001758	0.284091	0.701675	69.969611	6.130902
pos_thresh_50	0.213849	0.000000	0.000000	0.079545	0.709467	90.350879	7.499469
topK_50	0.461126	6.818182	1.017318	0.250000	0.499914	70.340410	10.602304
pos_thresh_25	0.295892	2.272727	1.634609	0.102273	0.570359	83.827800	8.079797
bin	0.346528	12.500000	1.270307	0.272727	0.449182	69.018344	7.284691
minmax	0.464735	4.545455	2.155288	0.102273	0.270846	83.096554	11.163190
topK_5	0.121176	0.000000	0.000000	0.034091	0.949966	94.738399	8.300195
topK_30	0.379718	3.409091	1.390894	0.125000	0.699919	83.927825	10.091576
sigmoid	0.511989	4.545455	2.152972	0.079545	0.011027	88.065598	11.295047
sigmoid_pos	0.517646	4.545455	2.122050	0.079545	0.004864	87.398808	9.626561
pos_thresh_75	0.112684	0.000000	0.000000	0.011364	0.805793	94.561818	6.492903

In [33]: display\_experiment\_results(experiment\_results\_false["cnn14\_logstft"]["lime\_clean"])

	FF	Al	AG	FidIn	SPS	AD	СОМР
topK_50_pos	0.570147	18.181818	8.110615	0.306818	0.453334	65.825077	9.772382
topK_30_pos	0.546604	10.227273	4.807168	0.193182	0.692448	76.823457	10.115923
minmax_pos	0.534169	3.409091	1.161817	0.113636	0.633881	89.720842	10.483584
topK_5_pos	0.274115	2.272727	0.446291	0.068182	0.936894	89.257630	8.521819
pos_thresh_50	0.402348	1.136364	0.396579	0.102273	0.882629	89.219787	8.983716
topK_50	0.567844	15.909091	9.266890	0.250000	0.492448	71.370830	10.617031
pos_thresh_25	0.527051	4.545455	2.076483	0.136364	0.711236	81.984141	9.922895
bin	0.566931	25.000000	12.316326	0.443182	0.304804	49.701178	10.911146
minmax	0.550206	6.818182	4.267909	0.136364	0.266583	84.573532	11.149560
topK_5	0.274115	2.272727	0.446291	0.068182	0.936894	89.257630	8.521819
topK_30	0.546604	10.227273	4.807168	0.193182	0.692448	76.823457	10.115923
sigmoid	0.520852	4.545455	1.889966	0.079545	0.005880	86.885849	11.295182
sigmoid_pos	0.520904	4.545455	1.906818	0.090909	0.004502	86.953236	11.295207
pos_thresh_75	0.220393	1.136364	0.359097	0.056818	0.950789	92.908085	8.098558

In [34]: display\_experiment\_results(experiment\_results\_false["cnn14\_logstft"]["shap\_clean"])

	FF	AI	AG	FidIn	SPS	AD	СОМР
topK_50_pos	0.572407	4.545455	1.714257	0.079545	0.471585	91.785160	9.999750
topK_30_pos	0.567144	1.136364	0.883509	0.034091	0.699991	96.320040	10.091336
minmax_pos	0.315431	1.136364	0.120306	0.011364	0.732705	94.697184	10.239613
topK_5_pos	0.333717	1.136364	0.136667	0.034091	0.949986	93.901365	8.299783
pos_thresh_50	0.034276	1.136364	0.254733	0.011364	0.997548	96.958296	4.916781
topK_50	0.573036	2.272727	1.713703	0.022727	0.499994	97.463591	10.602145
pos_thresh_25	0.267528	0.000000	0.000000	0.011364	0.964014	96.967392	7.836574
bin	0.572844	2.272727	1.710104	0.022727	0.489782	97.454075	10.622260
minmax	0.547891	3.409091	1.015579	0.068182	0.072308	92.219805	11.285838
topK_5	0.333717	1.136364	0.136667	0.034091	0.949986	93.901365	8.299783
topK_30	0.567144	1.136364	0.883509	0.034091	0.699991	96.320040	10.091336
sigmoid	0.513875	4.545455	2.194049	0.068182	0.000593	87.910546	11.295278
sigmoid_pos	0.514036	4.545455	2.192349	0.068182	0.000304	87.884218	11.295279
pos_thresh_75	0.001281	0.000000	0.000000	0.011364	0.998327	96.646716	2.188823

# Mask experiments clean - mel model

In [35]: display\_experiment\_results(mask\_experiment\_results["logmel\_cnn14"]["clean"])

topK	_50_pos	-					
	FF	AI	AG	FidIn	SPS	AD	COMP
saliency	0.923978	19.500000	0.030776	0.652500	0.176250	34.762647	3.413026
gradcam	0.620665	11.250000	0.937880	0.655000	0.376843	38.935879	7.311478
lime	0.827965	13.750000	5.367577	0.755000	0.460687	30.268507	9.411879
shap	0.927127	0.000000	0.000000	0.017500	0.500000	98.489148	9.682342
topK	_30_pos	-					
topK	_30_pos <b>FF</b>	AI	AG	FidIn	SPS	AD	СОМР
saliency			AG 0.000000	FidIn 0.015000	SPS 0.700006	AD 98.379270	<b>COMP</b> 9.171496
	FF	AI					
saliency	FF 0.924232	0.000000	0.000000	0.015000	0.700006	98.379270	9.171496
saliency gradcam	FF 0.924232 0.362573	<b>AI 0.000000</b> 7.500000	<b>0.000000</b> 0.592328	<b>0.015000</b> 0.447500	0.700006 0.594134	<b>98.379270</b> 60.988887	9.171496 <b>7.798657</b>

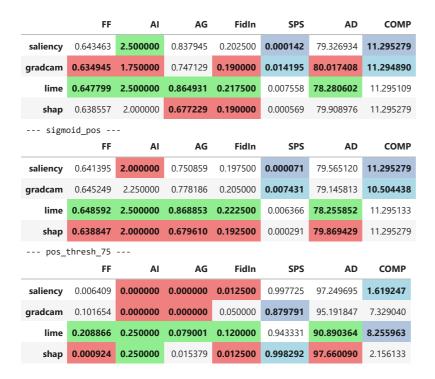
	FF	AI	AG	FidIn	SPS	AD	СОМР
saliency	0.765674	0.250000	0.049200	0.087500	0.789556	94.029495	9.025832
gradcam	0.431521	0.750000	0.675450	0.362500	0.396169	70.568771	9.305840
lime	0.755739	3.500000	1.596777	0.437500	0.547097	60.692678	9.738116
shap	0.742942	0.000000	0.000000	0.017500	0.730384	98.140790	9.325663
topK	_5_pos						
	FF	AI	AG	FidIn	SPS	AD	СОМР
saliency	0.765061	0.000000	0.000000	0.022500	0.949973	97.663678	7.380256
gradcam	0.079036	2.500000	0.000586	0.140000	0.889484	88.365241	6.940669
lime	0.158620	2.000000	1.222816	0.305000	0.913671	72.956990	7.874178
shap	0.644688	0.000000	0.000000	0.027500	0.949973	97.529223	7.380256
pos_	thresh_50						
	FF	Al	AG	FidIn	SPS	AD	СОМР
saliency	0.033590	0.250000	0.173707	0.015000	0.998819	97.721229	3.123119
gradcam	0.365905	4.750000	1.725173	0.460000	0.539708	60.330152	8.580231
lime	0.493181	3.000000	1.669558	0.472500	0.748397	58.130710	8.789097
shap	0.059366	0.250000	0.190183	0.025000	0.996374	97.753458	4.424030
topK	_50 <b>FF</b>	AI	AG	FidIn	SPS	AD	СОМР
saliency	0.925224	0.000000	0.000000				9.682342
gradcam	0.525057	4.250000	2.337507				9.684185
lime	0.826212	13.750000	6.091994			30.978062	9.728370
shap	0.927127	0.000000	0.000000				9.682342
•			0.000000	0.017300	0.50000	30.403140	9.002342
p03_	FF.	AI	AG	FidIn	SPS	AD	СОМР
saliency	0.267537	0.500000	0.339988	0.022500	0.990411	97.134056	5.498956
gradcam	0.599441	12.250000	2.856096	0.682500	0.347645	37.203954	7.528248
lime	0.801759	9.500000	4.611255	0.702500	0.562260	34.795579	9.407741
shap	0.514174	0.000000	0.000000	0.020000	0.955756	97.999605	7.109134
bin							
	FF	AI	A	G Fidl	n SP	S AI	о сомі
saliency	0.925166	0.000000	0.00000	0.02000	0.50142	<b>0</b> 98.34602	1 9.67945
gradcam	0.719301	21.500000	2.34447	1 0.78250	0. <b>19554</b>	<b>0</b> 24.41537	2 <b>4.91848</b> 9
lime	0.900067	29.250000	12.58263	0 0.93250	0.19870	1 <b>8.22083</b>	9.588828
shap	0.927023	0.000000	0.00000	0.01500	0.48877	9 98.44843	9.704492
minm					<b></b>		
	FF	AI	AG	FidIn	SPS	AD	COMP
saliency	0.865298	3.750000	3.182013	0.272500	0.038222	77.518508	10.372004
gradcam	0.513954	1.250000	0.772345	0.392500	0.335306	66.666616	10.150722
lime	0.788149	4.250000	2.253361	0.487500	0.392208	56.334667	10.071627
shap	0.896360	0.000000	0.000000	0.080000	0.069193	93.938898	10.366691
topK	_5 <b>FF</b>	Al	AG	FidIn	SPS	AD	СОМР
saliency	0.765061	0.000000	0.000000	0.022500	0.949973	97.663678	7.380256
gradcam	0.030442	0.000000	0.000000	0.095000	0.948799	93.796811	7.403085
lime	0.158620	2.000000	1.222816	0.305000	0.913671	72.956990	7.874178
shap	0.644688	0.000000	0.000000	0.027500	0.949973	97.529223	7.380256
tonK	30						

	FF	AI	AG	FidIn	SPS	AD	COMP
saliency	0.924232	0.000000	0.000000	0.015000	0.700006	98.379270	9.171496
gradcam	0.273740	2.000000	0.822263	0.355000	0.698777	71.296085	9.175542
lime	0.623068	10.000000	4.776571	0.550000	0.674052	49.213681	9.252109
shap	0.920322	0.000000	0.000000	0.015000	0.700006	98.376756	9.171496
sigm	oid						
	FF	AI	AG	FidIn	SPS	AD	СОМР
saliency	0.494280	3.500000	1.587410	0.705000	0.000435	38.660613	10.375489
gradcam	0.503141	2.000000	0.972663	0.677500	0.026292	41.577628	10.373997
lime	0.497468	2.000000	0.959788	0.677500	0.014293	42.361412	10.374873
shap	0.411536	1.750000	0.706118	0.635000	0.001600	45.858975	10.375483
sigm	oid_pos	-					
	FF	Al	AG	FidIn	SPS	AD	COMP
saliency	0.459920	2.500000	1.172303	0.677500	0.000218	41.394705	10.375489
saliency gradcam	0.459920 <b>0.509001</b>	2.500000 <b>2.750000</b>	1.172303 <b>1.287837</b>	<b>0.677500</b> 0.672500	0.000218 0.021328	41.394705 <b>41.110658</b>	10.375489 9.803656
gradcam	0.509001	2.750000	1.287837	0.672500	0.021328	41.110658	9.803656
gradcam lime shap	<b>0.509001</b> 0.496658	2.750000 2.000000 2.000000	<b>1.287837</b> 0.966856	0.672500 0.675000	<b>0.021328</b> 0.013022	<b>41.110658</b> 42.472529	<b>9.803656</b> 10.374929
gradcam lime shap	<b>0.509001</b> 0.496658 <b>0.413540</b>	2.750000 2.000000 2.000000	<b>1.287837</b> 0.966856	0.672500 0.675000	<b>0.021328</b> 0.013022	<b>41.110658</b> 42.472529	<b>9.803656</b> 10.374929
gradcam lime shap	0.509001 0.496658 0.413540 thresh_75	2.750000 2.000000 2.000000	1.287837 0.966856 0.717578	0.672500 0.675000 <b>0.632500</b>	0.021328 0.013022 0.000816	<b>41.110658</b> 42.472529 <b>45.765689</b>	<b>9.803656</b> 10.374929 10.375487
gradcam lime shap	0.509001 0.496658 0.413540 thresh_75 FF	2.750000 2.000000 2.000000	1.287837 0.966856 0.717578	0.672500 0.675000 <b>0.632500</b> FidIn	0.021328 0.013022 0.000816 SPS	<b>41.110658</b> 42.472529 <b>45.765689</b> AD	9.803656 10.374929 10.375487 COMP
gradcam lime shap pos_	0.509001 0.496658 0.413540 thresh_75 FF 0.004059	2.750000 2.000000 2.000000 Al 0.000000	1.287837 0.966856 0.717578 AG 0.000000	0.672500 0.675000 <b>0.632500</b> FidIn 0.032500	0.021328 0.013022 0.000816 SPS 0.998683	<b>41.110658</b> 42.472529 <b>45.765689 AD</b> 97.390892	9.803656 10.374929 10.375487 COMP 1.327483

# Mask experiments - stft model

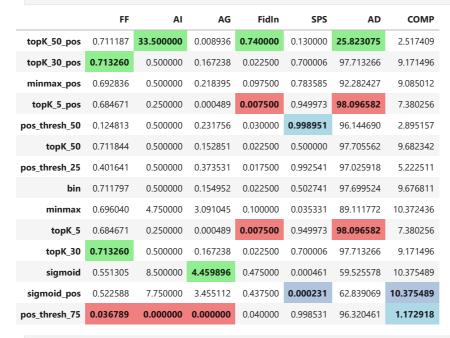
In [36]: display\_experiment\_results(mask\_experiment\_results["cnn14\_logstft"]["clean"]) --- topK\_50\_pos ---FF AG FidIn SPS AD СОМР 5.221556 saliency **0.804260 23.000000 0.005567** 0.515000 0.246247 48.375174 0.724521 22.750000 0.212617 **0.700000** 0.224973 31.095250 4.771013 0.765800 55.774762 15.500000 8.450201 0.442500 0.473102 10.191675 lime shap 0.802138 4.500000 0.378346 0.117500 0.448744 88.001383 9.515425 --- topK\_30\_pos ---FidIn SPS СОМР AG AD saliency 0.775904 1.000000 0.693553 **0.027500 0.699991** 96.591307 10.091336 gradcam 0.572838 13.500000 0.218326 0.520000 0.440970 50.516011 6.357624 0.694406 10.000000 5.281612 0.345000 0.691540 66.936226 10.118867 lime 0.763902 0.387124 **0.027500 0.699991 97.378701** 10.091336 shap 0.500000 --- minmax\_pos ---FidIn SPS COMP **0.793775 1.250000** 0.376756 0.045000 **0.783133** 94.490105 9.997836 saliency gradcam 0.320162 0.500000 0.087145 0.100000 0.610099 90.740430 9.345481 1.000000 **0.381859** 0.637870 0.182500 0.621597 84.515637 10.526510 shap 0.455324 **0.250000 0.026467 0.020000** 0.733023 **96.696586** 10.238195 --- topK\_5\_pos ---

	FF	AI	AG	FidIn	SPS	AD	СОМР
saliency	0.616458	0.750000	0.564025	0.032500	0.949986	96.526038	8.299783
gradcam	0.191101	4.750000	0.070849	0.160000	0.835977	84.389165	7.304025
lime	0.243031	0.750000	0.135247	0.135000	0.936590	89.532042	8.526989
shap	0.444992	0.250000	0.030067	0.017500	0.949986	96.537593	8.299783
			0.030007	0.017300	0.949980	90.337393	0.233703
pos_	FF	AI	AG	FidIn	SPS	AD	СОМР
saliency	0.031187	0.500000	0.244557	0.030000	0.999007	96.525065	3.675487
gradcam	0.267266	0.250000	0.207852	0.117500	0.762309	89.263071	8.491924
lime	0.433959	0.750000	0.290252	0.182500	0.869844	84.201880	9.094784
shap	0.042822	0.750000	0.169460	0.010000	0.997583	97.548443	4.935369
topK		050000			0.337303		555565
*****	FF	AI	AG	FidIn	SPS	AD	сомі
saliency	0.791538	0.500000	0.428297	0.025000	0.499994	96.391408	10.60214
gradcam	0.585988	4.000000	1.156712	0.435000	0.499936	59.905164	10.602260
lime	0.765135	14.750000	8.862266	0.415000	0.492814	58.199032	10.616330
shap	0.797199	0.500000	0.377015	0.020000	0.499994	97.530267	10.60214
•	thresh 25						
	FF	AI	AG	FidIn	SPS	AD	СОМР
saliency	0.220229	1.000000	0.120974	0.037500	0.991122	95.673791	6.327209
gradcam	0.398405	2.250000	0.982882	0.270000	0.600836	73.915097	9.141945
lime	0.677671	5.500000	2.461060	0.327500	0.699007	69.090076	9.976185
shap	0.325784	0.000000	0.000000	0.020000	0.963614	97.009564	7.850699
bin -							
DIII -							
DIII ·	FF	AI	A	G Fidl	n SP	S AI	O COM
saliency		0.500000	<b>A</b> 0.42813				
	FF			8 0.02500	0.50030	96.42300	9 10.6014
saliency	<b>FF</b> 0.791234	0.500000	0.42813	8 0.02500 0 0.50500	0 <b>0.50030</b> 0 <b>0.45146</b>	96.42300 9 54.05250	9 10.6014 5 <b>8.4737</b> !
saliency gradcam	0.791234 <b>0.474271</b>	<b>0.500000</b> 9.250000	0.428136 1.076556 <b>13.72376</b>	8 0.02500 0 0.50500	0 <b>0.50030</b> 0 0.45146 <b>0 0.27259</b>	96.42300 9 54.05250 4 32.42624	9 10.6014 5 <b>8.4737</b> 8 <b>10.9603</b>
saliency gradcam lime	FF 0.791234 0.474271 0.788757 0.796336	<b>0.500000</b> 9.250000 <b>25.000000</b>	0.428136 1.076556 <b>13.72376</b>	8 0.02500 0 0.50500 <b>9 0.67750</b>	0 <b>0.50030</b> 0 0.45146 <b>0 0.27259</b>	96.42300 9 54.05250 4 32.42624	9 10.6014 5 <b>8.4737</b> <b>8 10.9603</b>
saliency gradcam lime shap	FF 0.791234 0.474271 0.788757 0.796336	<b>0.500000</b> 9.250000 <b>25.000000</b>	0.428133 1.076556 13.723769 0.376223	8 0.02500 0 0.50500 <b>9 0.67750</b>	0 <b>0.50030</b> 0 0.45146 <b>0 0.27259</b> 0 0.49145	96.42300 9 54.05250 4 32.42624 7 97.48808	9 10.6014 5 <b>8.4737</b> <b>8 10.9603</b>
saliency gradcam lime shap	0.791234 0.474271 0.788757 0.796336	9.250000 25.000000 0.500000	0.42813; 1.07655; 13.72376; 0.37622;	8 0.02500 0 0.50500 9 0.67750 3 0.02000	0 <b>0.50030</b> 0 0.45146 <b>0 0.27259</b> 0 0.49145	96.42300 9 54.05250 4 32.42624 7 97.48808	9 10.6014 5 <b>8.4737</b> <b>8 10.9603</b> 4 10.6189
saliency gradcam lime shap	FF  0.791234  0.474271  0.788757  0.796336  ax FF	0.500000 9.250000 25.000000 0.500000	0.42813i 1.07655i 13.72376i 0.37622i	8 0.02500 0 0.50500 9 0.67750 3 0.02000 FidIn	0 0.50030 0 0.45146 0 0.27259 0 0.49145 SPS 0.038136	96.42300 9 54.05250 4 32.42624 7 97.48808 AD 66.198419	9 10.6014: 5 <b>8.4737</b> ! <b>8 10.9603</b> 4 10.6189
saliency gradcam lime shap minma	0.791234 0.474271 0.788757 0.796336 ax FF 0.787943	0.500000 9.250000 25.000000 0.500000 Al 10.000000	0.428133 1.076556 13.723769 0.376223 AG 6.311180	8 0.02500 0 0.50500 9 0.67750 3 0.02000 FidIn 0.345000	0 0.50030 0 0.45146 0 0.27259 0 0.49145 SPS 0.038136 0.295463	9 54.05250 4 32.42624 7 97.48808 AD 66.198419 75.670870	9 10.6014 5 <b>8.4737</b> 8 <b>10.9603</b> 4 10.6189 COMI
saliency gradcam lime shap minma saliency gradcam	FF 0.791234 0.474271 0.788757 0.796336 ax FF 0.787943 0.567426	0.500000 9.2500000 25.000000 0.500000 AI 10.0000000 1.750000	0.428133 1.076556 13.723769 0.376223 AG 6.311180 0.522353 1.586585	8 0.02500 0 0.50500 9 0.67750 3 0.02000 FidIn 0.345000 0.262500	0 0.50030 0 0.45146 0 0.27259 0 0.49145 SPS 0.038136 0.295463 0.310267	9 96.42300 9 54.05250 4 32.42624 7 97.48808 AD 66.198419 75.670870 77.675293	9 10.6014: 5 <b>8.4737</b> ! <b>8 10.9603</b> 4 10.6189 <b>COMI</b> <b>11.29200</b> 9 11.13910
saliency gradcam lime shap minma saliency gradcam lime	FF 0.791234 0.474271 0.788757 0.796336 ax FF 0.787943 0.567426 0.689437 0.758162	0.500000 9.2500000 25.000000 Al 10.000000 1.750000 2.750000	0.428133 1.076556 13.723769 0.376223 AG 6.311180 0.522353 1.586585	8 0.02500 0 0.50500 9 0.67750 3 0.02000 FidIn 0.345000 0.262500 0.237500	0 0.50030 0 0.45146 0 0.27259 0 0.49145 SPS 0.038136 0.295463 0.310267	9 96.42300 9 54.05250 4 32.42624 7 97.48808 AD 66.198419 75.670870 77.675293	9 10.6014: 5 <b>8.4737</b> : 8 <b>10.9603</b> - 4 10.6189: COMI 11.29200: 11.13910: 11.10674:
saliency gradcam lime shap minma saliency gradcam lime shap	FF 0.791234 0.474271 0.788757 0.796336 ax FF 0.787943 0.567426 0.689437 0.758162	0.500000 9.2500000 25.000000 Al 10.000000 1.750000 2.750000	0.428133 1.076556 13.723769 0.376223 AG 6.311180 0.522353 1.586585	8 0.02500 0 0.50500 9 0.67750 3 0.02000 FidIn 0.345000 0.262500 0.237500	0 0.50030 0 0.45146 0 0.27259 0 0.49145 SPS 0.038136 0.295463 0.310267	9 96.42300 9 54.05250 4 32.42624 7 97.48808 AD 66.198419 75.670870 77.675293	9 10.6014: 5 <b>8.4737</b> : 8 <b>10.9603</b> - 4 10.6189: COMI 11.29200: 11.13910: 11.10674:
saliency gradcam lime shap minma saliency gradcam lime shap	0.791234 0.474271 0.788757 0.796336 ax FF 0.787943 0.567426 0.689437 0.758162	0.500000 9.2500000 0.500000 AI 10.000000 1.750000 2.750000 1.250000	0.42813; 1.07655; 13.72376; 0.37622; AG 6.311180 0.522353 1.586585 0.592648	8 0.02500 0 0.50500 9 0.67750 3 0.02000 FidIn 0.345000 0.262500 0.237500	0 0.50030 0 0.45146 0 0.27259 0 0.49145 SPS 0.038136 0.295463 0.310267 0.072735	9 96.42300 9 54.05250 4 32.42624 7 97.48808 AD 66.198419 75.670870 77.675293 92.499063	9 10.6014: 5 <b>8.4737</b> : 8 <b>10.9603</b> - 4 10.6189: COMI 11.292009: 11.13910: 11.10674: 11.28574:
saliency gradcam lime shap minma saliency gradcam lime shap topK	FF  0.791234  0.474271  0.788757  0.796336  ax FF  0.787943  0.567426  0.689437  0.758162  _5 FF	0.500000 9.2500000 25.000000 AI 10.000000 1.750000 2.750000 1.250000 AI	0.428136 1.076556 13.723769 0.376223 AG 6.311180 0.522353 1.586585 0.592648	8 0.02500 0 0.50500 9 0.67750 3 0.02000 FidIn 0.345000 0.262500 0.085000	0 0.50030 0 0.45146 0 0.27259 0 0.49145 SPS 0.038136 0.295463 0.310267 0.072735	96.42300 9 54.05250 4 32.42624 7 97.48808 AD 66.198419 75.670870 77.675293 92.499063	9 10.6014: 5 <b>8.4737</b> ! <b>8 10.9603</b> 4 10.61890 11.292009 11.139100 11.106741 11.285742
saliency gradcam lime shap minma saliency gradcam lime shap topK	FF  0.791234  0.474271  0.788757  0.796336  ax FF  0.787943  0.567426  0.689437  0.758162  5 FF  0.616458	0.500000 9.2500000 0.500000 Al 10.000000 1.750000 Al 0.750000	0.42813; 1.07655; 13.72376; 0.37622;  AG 6.311180 0.522353 1.586585 0.592648  AG 0.564025	8 0.02500 0 0.50500 9 0.67750 3 0.02000 FidIn 0.345000 0.262500 0.237500 FidIn	0 0.50030 0 0.45146 0 0.27259 0 0.49145 SPS 0.038136 0.295463 0.310267 0.072735 SPS	9 96.42300 9 54.05250 4 32.42624 7 97.48808 AD 66.198419 75.670870 77.675293 92.499063 AD	9 10.6014: 5 <b>8.4737</b> : 8 <b>10.9603</b> 4 10.6189  COMI 11.292009 11.13910 11.10674: 11.28574: COMP 8.299783
saliency gradcam lime shap minma saliency gradcam lime shap topK saliency gradcam	FF 0.791234 0.474271 0.788757 0.796336 0.787943 0.567426 0.689437 0.758162 5 FF 0.616458 0.114918	0.500000 9.2500000 25.000000 AI 10.000000 1.750000 2.750000 AI 0.750000 0.250000	0.428136 1.076556 13.723769 0.376223 AG 6.311180 0.522353 1.586585 0.592648 AG 0.564025 0.070103	8 0.02500 0 0.50500 0 0.50500 9 0.67750 3 0.02000 FidIn 0.345000 0.237500 0.085000 FidIn 0.032500 0.042500	0 0.50030 0 0.45146 0 0.27259 0 0.49145 SPS 0.038136 0.295463 0.310267 0.072735 SPS 0.949986	96.42300 9 54.05250 4 32.42624 7 97.48808 AD 66.198419 75.670870 77.675293 92.499063 AD 96.526038 95.884257	9 10.6014: 5 <b>8.4737</b> ! 8 <b>10.9603</b> 4 10.6189  COMI 11.292009 11.13910 11.28574  COMP 8.299783 8.300031
saliency gradcam lime shap minma saliency gradcam lime shap topK saliency gradcam lime	FF  0.791234  0.474271  0.788757  0.796336  ax  FF  0.787943  0.567426  0.689437  0.758162  5  FF  0.616458  0.114918  0.243031  0.444992  30	0.500000 9.2500000 1.500000 1.750000 1.250000 Al 0.750000 0.250000 0.250000	0.42813; 1.07655; 13.72376; 0.37622;  AG 6.311180 0.522353 1.586585 0.592648  AG 0.564025 0.070103 0.135247 0.030067	8 0.02500 0 0.50500 9 0.67750 3 0.02000 FidIn 0.345000 0.237500 0.085000 FidIn 0.032500 0.042500 0.135000	0 0.50030 0 0.45146 0 0.27259 0 0.49145 SPS 0.038136 0.295463 0.310267 0.072735 SPS 0.949986 0.949974 0.936590 0.949986	96.42300 9 54.05250 4 32.42624 7 97.48808 AD 66.198419 75.670870 77.675293 92.499063 AD 96.526038 95.884257 89.532042	9 10.6014: 5 <b>8.4737</b> : 8 <b>10.9603</b> - 4 10.6189  COMI 11.292009 11.13910 11.28574:  COMP 8.299783 8.300031 8.526989 8.299783
saliency gradcam lime shap minma saliency gradcam lime shap topK saliency gradcam lime shap	FF 0.791234 0.474271 0.788757 0.796336 0.787943 0.567426 0.689437 0.758162 5 FF 0.616458 0.114918 0.243031 0.444992	0.500000 9.2500000 0.500000 AI 10.000000 2.750000 1.250000 AI 0.750000 0.750000	0.42813; 1.07655; 13.72376; 0.37622;  AG 6.311180 0.522353 1.586585 0.592648  AG 0.564025 0.070103 0.135247 0.030067	8 0.02500 0 0.50500 9 0.67750 3 0.02000 FidIn 0.345000 0.262500 0.085000 FidIn 0.032500 0.042500 0.017500 FidIn	0 0.50030 0 0.45146 0 0.27259 0 0.49145 SPS 0.038136 0.295463 0.310267 0.072735 SPS 0.949986 0.949974 0.936590 0.949986	96.42300 9 54.05250 4 32.42624 7 97.48808 AD 66.198419 75.670870 77.675293 92.499063 AD 96.526038 95.884257 89.532042	9 10.6014: 5 <b>8.4737</b> : 8 <b>10.9603</b> 4 10.6189  COMI 11.292009 11.13910 11.10674: 11.28574:  COMP 8.299783 8.300031 8.526989
saliency gradcam lime shap minma saliency gradcam lime shap topK saliency gradcam lime shap	FF  0.791234  0.474271  0.788757  0.796336  ax  FF  0.787943  0.567426  0.689437  0.758162  5  FF  0.616458  0.114918  0.243031  0.444992  30	0.500000 9.2500000 1.500000 1.750000 1.250000 Al 0.750000 0.250000 0.250000	0.42813; 1.07655; 13.72376; 0.37622;  AG 6.311180 0.522353 1.586585 0.592648  AG 0.564025 0.070103 0.135247 0.030067	8 0.02500 0 0.50500 9 0.67750 3 0.02000 FidIn 0.345000 0.262500 0.085000 FidIn 0.032500 0.042500 0.017500 FidIn	0 0.50030 0 0.45146 0 0.27259 0 0.49145 SPS 0.038136 0.295463 0.310267 0.072735 SPS 0.949986 0.949974 0.936590 0.949986	96.42300 9 54.05250 4 32.42624 7 97.48808 AD 66.198419 75.670870 77.675293 92.499063 AD 96.526038 95.884257 89.532042	9 10.6014: 5 8.4737! 8 10.96034 10.61896 COMI 11.292009 11.13910 11.10674: 11.28574: COMP 8.299783 8.300031 8.526989 8.299783 COMI
saliency gradcam lime shap minma saliency gradcam lime shap topK saliency gradcam lime shap topK	FF  0.791234  0.474271  0.788757  0.796336  0.787943  0.567426  0.689437  0.758162  5  FF  0.616458  0.114918  0.243031  0.444992  30  FF	0.500000 9.2500000 1.500000 1.750000 2.750000 1.250000 0.250000 0.250000 Al	0.42813i 1.076556 13.723769 0.37622i AG 6.311180 0.522353 1.586585 0.592648 AG 0.564025 0.070103 0.135247 0.030067	8 0.02500 0 0.50500 9 0.67750 3 0.02000 FidIn 0.345000 0.262500 0.085000 FidIn 0.032500 0.042500 0.017500 FidIn	0 0.50030 0 0.45146 0 0.27259 0 0.49145 SPS 0.038136 0.295463 0.310267 0.072735 SPS 0.949986 0.949974 0.936590 0.949986	96.42300 9 54.05250 4 32.42624 7 97.48808 AD 66.198419 75.670870 77.675293 92.499063 AD 96.526038 95.884257 89.532042 96.537593 AD	9 10.6014: 5 8.4737! 8 10.96034 10.61896 COMI 11.292009 11.13910 11.10674: 11.28574: COMP 8.299783 8.300031 8.526989 8.299783 COMI
saliency gradcam lime shap minma saliency gradcam lime shap topK saliency gradcam lime shap topK	FF  0.791234  0.474271  0.788757  0.796336  9x  FF  0.787943  0.567426  0.689437  0.758162  5  FF  0.616458  0.114918  0.243031  0.444992  30  FF  0.775904	0.500000 9.2500000 1.500000 1.750000 1.250000 1.250000 0.750000 0.750000 1.000000	0.42813; 1.07655; 13.72376; 0.37622;  AG 6.311180 0.522353 1.586585 0.592648  AG 0.564025 0.070103 0.135247 0.030067  AG 0.693553	8 0.02500 0 0.50500 9 0.67750 3 0.02000 FidIn 0.262500 0.085000 FidIn 0.032500 0.042500 0.135000 FidIn 0.027500	0 0.50030 0 0.45146 0 0.27259 0 0.49145 SPS 0.038136 0.295463 0.310267 0.072735 SPS 0.949986 0.949974 0.936590 0.949986 SPS 0.699991	96.42300 9 54.05250 4 32.42624 7 97.48808 AD 66.198419 75.670870 77.675293 92.499063 AD 96.526038 95.884257 89.532042 96.537593 AD	9 10.6014: 5 8.4737: 8 10.9603- 4 10.6189  COMI 11.292009 11.13910 11.10674: 11.28574:  COMP 8.299783 8.300031 8.526989 8.299783  COMI 10.091336
saliency gradcam lime shap minma saliency gradcam lime shap topK saliency gradcam lime shap topK	FF  0.791234  0.474271  0.788757  0.796336  0.787943  0.567426  0.689437  0.758162  5  FF  0.616458  0.114918  0.243031  0.444992  30  FF  0.775904  0.425778	0.500000 9.2500000 1.500000 1.750000 1.250000 1.250000 0.250000 1.000000 1.750000	0.42813i 1.07655i 13.72376i 0.37622i  AG 6.311180 0.522353 1.586585 0.592648  AG 0.564025 0.070103 0.135247 0.030067  AG 0.693553 0.694706	8 0.02500 0 0.50500 0 0.50500 9 0.67750 3 0.02000 FidIn 0.345000 0.262500 0.085000 FidIn 0.032500 0.042500 0.017500 FidIn 0.027500	0 0.50030 0 0.45146 0 0.27259 0 0.49145 SPS 0.038136 0.295463 0.310267 0.072735 SPS 0.949986 0.949974 0.936590 0.949986 SPS 0.699991 0.699955	96.42300 9 54.05250 4 32.42624 7 97.48808 AD 66.198419 75.670870 77.675293 92.499063 AD 96.526038 95.884257 89.532042 96.537593 AD	9 10.6014: 5 8.4737! 8 10.96034 10.6189  COMI 11.292009 11.13910 11.10674: 11.28574:  COMP 8.299783 8.300031 8.526989 8.299783  COMI 10.091331 10.09145



### Noisy experiments - mel model

In [37]: display\_experiment\_results(experiment\_results["logmel\_cnn14"]["saliency\_white"])



In [38]: display\_experiment\_results(experiment\_results["logmel\_cnn14"]["saliency\_room"])

	FF	AI	AG	FidIn	SPS	AD	СОМР
topK_50_pos	0.850203	27.500000	0.012627	0.702500	0.148750	29.305257	2.880497
topK_30_pos	0.850450	0.000000	0.000000	0.012500	0.700006	98.049265	9.171496
minmax_pos	0.792559	0.500000	0.203990	0.082500	0.776979	94.064579	9.124298
topK_5_pos	0.767658	0.000000	0.000000	0.017500	0.949973	97.447247	7.380256
pos_thresh_50	0.084090	0.500000	0.139204	0.017500	0.998847	97.229904	3.085727
topK_50	0.850926	0.000000	0.000000	0.012500	0.500000	98.101977	9.682342
pos_thresh_25	0.387386	0.750000	0.322935	0.025000	0.990745	96.956076	5.463568
bin	0.850942	0.000000	0.000000	0.012500	0.501831	98.092801	9.678648
minmax	0.824409	3.500000	2.288219	0.120000	0.038916	88.186978	10.371979
topK_5	0.767658	0.000000	0.000000	0.017500	0.949973	97.447247	7.380256
topK_30	0.850450	0.000000	0.000000	0.012500	0.700006	98.049265	9.171496
sigmoid	0.596854	6.000000	3.486621	0.572500	0.000517	51.145875	10.375488
sigmoid_pos	0.560614	4.750000	2.692710	0.545000	0.000259	54.839926	10.375489
pos_thresh_75	0.022937	0.000000	0.000000	0.025000	0.998625	97.008971	1.283964

In [39]: display\_experiment\_results(experiment\_results["logmel\_cnn14"]["saliency\_horse"])

	FF	AI	AG	FidIn	SPS	AD	СОМР
topK_50_pos	0.790265	23.000000	0.013285	0.490000	0.256250	49.703418	4.962200
topK_30_pos	0.788512	0.000000	0.000000	0.002500	0.700006	97.261679	9.171496
minmax_pos	0.769097	0.250000	0.228000	0.067500	0.774741	92.015486	9.143423
topK_5_pos	0.694687	0.500000	0.144353	0.012500	0.949973	95.896013	7.380256
pos_thresh_50	0.107345	0.500000	0.187773	0.007500	0.998754	97.551229	3.272936
topK_50	0.789462	0.000000	0.000000	0.002500	0.500000	96.983037	9.682342
pos_thresh_25	0.384352	1.000000	0.495883	0.010000	0.989098	97.488239	5.682150
bin	0.789513	0.000000	0.000000	0.002500	0.499980	96.973540	9.682366
minmax	0.774537	10.750000	7.420244	0.275000	0.040467	72.473431	10.371812
topK_5	0.694687	0.500000	0.144353	0.012500	0.949973	95.896013	7.380256
topK_30	0.788512	0.000000	0.000000	0.002500	0.700006	97.261679	9.171496
sigmoid	0.611034	3.500000	1.998115	0.557500	0.000539	56.133637	10.375488
sigmoid_pos	0.575932	3.000000	1.418633	0.512500	0.000270	61.364873	10.375489
pos_thresh_75	0.021472	0.000000	0.000000	0.012500	0.998810	96.992911	1.436226

In [40]: display\_experiment\_results(experiment\_results["logmel\_cnn14"]["gradcam\_white"])

	FF	AI	AG	FidIn	SPS	AD	СОМР
topK_50_pos	0.614136	20.250000	0.893746	0.607500	0.279487	41.206521	5.423134
topK_30_pos	0.505541	14.750000	0.745458	0.435000	0.471790	56.855287	6.193129
minmax_pos	0.410146	1.750000	0.942405	0.162500	0.455976	86.221599	8.168055
topK_5_pos	0.216855	7.000000	0.001045	0.222500	0.785255	78.898717	6.123648
pos_thresh_50	0.367086	6.000000	1.885612	0.240000	0.578786	77.713635	7.441431
topK_50	0.552455	5.500000	2.573893	0.295000	0.499046	72.596259	9.684244
pos_thresh_25	0.468688	10.250000	2.453414	0.367500	0.425916	64.554318	6.746623
bin	0.525461	17.500000	2.581020	0.512500	0.291756	49.678478	5.421575
minmax	0.545315	1.750000	1.097447	0.205000	0.346016	81.677592	10.148300
topK_5	0.135258	0.250000	0.061111	0.072500	0.948942	94.265772	7.400324
topK_30	0.424544	2.500000	1.225035	0.162500	0.698856	83.821378	9.175311
sigmoid	0.514553	5.250000	1.909778	0.372500	0.021902	67.792329	10.374392
sigmoid_pos	0.523629	5.500000	2.505811	0.380000	0.014241	66.113705	8.922229
pos_thresh_75	0.221672	0.500000	0.140789	0.100000	0.744493	91.608840	6.855313

In [41]: display\_experiment\_results(experiment\_results["logmel\_cnn14"]["gradcam\_room"])

	FF	Al	AG	FidIn	SPS	AD	COMP
topK_50_pos	0.668335	17.250000	1.008166	0.617500	0.328214	42.260622	6.367208
topK_30_pos	0.486541	10.500000	0.239852	0.420000	0.531212	61.049522	6.972964
minmax_pos	0.423235	0.500000	0.199748	0.227500	0.443651	82.143535	8.833017
topK_5_pos	0.146298	4.250000	0.001370	0.157500	0.846877	85.612666	6.605827
pos_thresh_50	0.359791	2.500000	0.887836	0.307500	0.578761	74.486631	8.102020
topK_50	0.595904	5.000000	2.359680	0.420000	0.499191	62.660099	9.683955
pos_thresh_25	0.527990	11.500000	3.756792	0.525000	0.397862	52.363291	7.450421
bin	0.624240	17.750000	2.535232	0.640000	0.262654	37.189112	5.514689
minmax	0.553310	1.250000	0.567462	0.272500	0.331609	76.075949	10.168407
topK_5	0.077974	0.000000	0.000000	0.060000	0.948871	95.577794	7.401692
topK_30	0.382163	2.000000	0.734136	0.252500	0.698899	78.883797	9.175169
sigmoid	0.558448	3.000000	1.595127	0.535000	0.023322	57.189180	10.374343
sigmoid_pos	0.565595	3.500000	1.996462	0.542500	0.016902	56.205281	9.492769
pos_thresh_75	0.182925	0.000000	0.000000	0.135000	0.779125	89.180259	7.443592

In [42]: display\_experiment\_results(experiment\_results["logmel\_cnn14"]["gradcam\_horse"])

	FF	AI	AG	FidIn	SPS	AD	СОМР
topK_50_pos	0.668792	17.750000	0.868279	0.530000	0.343064	50.479869	6.657979
topK_30_pos	0.460496	9.500000	0.002530	0.292500	0.573245	72.849382	7.523147
minmax_pos	0.503930	0.750000	0.082838	0.147500	0.489150	88.137385	9.194560
topK_5_pos	0.120128	4.000000	0.023954	0.102500	0.882598	89.776911	6.880740
pos_thresh_50	0.449661	1.750000	0.535797	0.235000	0.606163	79.931454	8.681950
topK_50	0.612748	3.500000	1.867875	0.312500	0.499043	71.584586	9.684249
pos_thresh_25	0.575871	8.000000	1.853760	0.442500	0.437850	59.268579	8.633621
bin	0.646689	15.000000	2.474192	0.597500	0.311810	42.436289	6.832786
minmax	0.665808	2.250000	0.613855	0.255000	0.302358	78.459776	10.195316
topK_5	0.093496	0.500000	0.046791	0.037500	0.948991	96.103175	7.399400
topK_30	0.393761	0.500000	0.112459	0.147500	0.699028	87.297876	9.174741
sigmoid	0.586634	1.000000	0.269063	0.445000	0.045041	66.064125	10.371285
sigmoid_pos	0.594604	2.250000	0.590318	0.470000	0.024387	63.591157	9.907195
pos_thresh_75	0.252305	0.500000	0.203256	0.075000	0.799362	92.993515	7.877263

In [43]: display\_experiment\_results(experiment\_results["logmel\_cnn14"]["lime\_white"])

	FF	AI	AG	FidIn	SPS	AD	COMP
topK_50_pos	0.661313	16.000000	5.634841	0.500000	0.436864	50.420390	9.111391
topK_30_pos	0.579215	10.250000	4.118605	0.360000	0.652824	64.582763	9.145879
minmax_pos	0.640139	5.500000	2.943990	0.292500	0.518476	72.855762	9.778432
topK_5_pos	0.287501	2.500000	0.941833	0.165000	0.905188	83.750481	7.976897
pos_thresh_50	0.543763	8.250000	4.268574	0.325000	0.710520	67.539896	8.939172
topK_50	0.662247	13.750000	6.180197	0.472500	0.466966	53.109267	9.745278
pos_thresh_25	0.655500	17.500000	8.751325	0.552500	0.506206	44.721665	9.431775
bin	0.698807	33.000000	9.173222	0.802500	0.187839	19.662564	8.035213
minmax	0.650653	7.500000	3.857558	0.312500	0.404169	70.803649	10.041011
topK_5	0.287501	2.500000	0.941833	0.165000	0.905188	83.750481	7.976897
topK_30	0.579628	9.750000	4.344005	0.355000	0.662899	65.144924	9.284801
sigmoid	0.557128	8.000000	3.849324	0.400000	0.015987	65.894878	10.374765
sigmoid_pos	0.555825	7.750000	3.768270	0.397500	0.014469	65.821870	10.374838
pos_thresh_75	0.408775	5.250000	2.258470	0.232500	0.833223	77.525328	8.406193

In [44]: display\_experiment\_results(experiment\_results["logmel\_cnn14"]["lime\_room"])

	FF	AI	AG	FidIn	SPS	AD	COMP
topK_50_pos	0.798785	9.500000	3.636989	0.525000	0.464438	49.644509	9.458127
topK_30_pos	0.676898	6.500000	2.843740	0.387500	0.673583	64.811349	9.253550
minmax_pos	0.756595	2.000000	0.992075	0.265000	0.571562	78.168436	9.702441
topK_5_pos	0.266324	2.000000	1.102891	0.170000	0.917428	84.912562	7.843242
pos_thresh_50	0.545840	5.000000	2.517829	0.305000	0.778948	73.029173	8.678135
topK_50	0.799169	9.250000	4.255971	0.515000	0.477797	50.872538	9.725150
pos_thresh_25	0.765986	11.000000	4.545312	0.495000	0.598970	53.206029	9.283331
bin	0.834635	23.500000	10.195292	0.822500	0.209794	21.226862	9.733310
minmax	0.772831	2.500000	0.968496	0.272500	0.402202	75.515457	10.056722
topK_5	0.266324	2.000000	1.102891	0.170000	0.917428	84.912562	7.843242
topK_30	0.676898	6.500000	2.843740	0.387500	0.673583	64.811349	9.253550
sigmoid	0.598789	3.250000	1.933977	0.502500	0.015792	56.987103	10.374777
sigmoid_pos	0.596873	3.250000	1.912635	0.505000	0.014284	57.143269	10.374840
pos_thresh_75	0.332176	2.250000	1.468688	0.197500	0.879987	81.625652	8.072819

In [45]: display\_experiment\_results(experiment\_results["logmel\_cnn14"]["lime\_horse"])

	FF	AI	AG	FidIn	SPS	AD	СОМР
topK_50_pos	0.766223	21.750000	10.250147	0.660000	0.442753	37.849872	9.047391
topK_30_pos	0.661359	15.500000	9.220467	0.412500	0.673541	59.308304	9.225868
minmax_pos	0.699449	6.750000	4.137273	0.265000	0.604778	75.024040	9.632975
topK_5_pos	0.271864	4.500000	2.608547	0.197500	0.916628	82.962081	7.847131
pos_thresh_50	0.527356	10.500000	7.369041	0.315000	0.790181	70.759820	8.655861
topK_50	0.762015	22.250000	12.026947	0.642500	0.476035	39.537862	9.728469
pos_thresh_25	0.701000	15.500000	10.393404	0.512500	0.628288	50.697775	9.277334
bin	0.780829	39.250000	20.442444	0.832500	0.289847	16.629332	9.857504
minmax	0.729969	9.500000	5.794292	0.385000	0.369308	65.290681	10.105218
topK_5	0.271864	4.500000	2.608547	0.197500	0.916628	82.962081	7.847131
topK_30	0.661405	15.250000	9.220464	0.410000	0.675266	59.548510	9.248880
sigmoid	0.600338	4.000000	1.717499	0.497500	0.018715	61.661336	10.374649
sigmoid_pos	0.599717	2.750000	1.427913	0.482500	0.015105	62.475879	10.374842
pos_thresh_75	0.334971	5.500000	3.827674	0.230000	0.889490	80.522536	8.001323

In [46]: display\_experiment\_results(experiment\_results["logmel\_cnn14"]["shap\_white"])

	FF	Al	AG	FidIn	SPS	AD	COMP
topK_50_pos	0.711886	0.750000	0.244812	0.022500	0.500000	97.824995	9.682342
topK_30_pos	0.712044	0.750000	0.239618	0.022500	0.700006	97.841799	9.171496
minmax_pos	0.703274	0.250000	0.133555	0.012500	0.721409	97.693956	9.358230
topK_5_pos	0.697975	0.250000	0.142618	0.010000	0.949973	97.190341	7.380256
pos_thresh_50	0.153006	1.000000	0.414754	0.037500	0.996067	96.786615	4.462922
topK_50	0.711886	0.750000	0.244812	0.022500	0.500000	97.824995	9.682342
pos_thresh_25	0.672602	0.000000	0.000000	0.007500	0.949855	97.280215	7.272439
bin	0.711988	0.750000	0.248318	0.022500	0.488620	97.833368	9.704824
minmax	0.707670	0.000000	0.000000	0.017500	0.081259	97.210593	10.363955
topK_5	0.697975	0.250000	0.142618	0.010000	0.949973	97.190341	7.380256
topK_30	0.712044	0.750000	0.239618	0.022500	0.700006	97.841799	9.171496
sigmoid	0.479686	5.000000	1.995867	0.380000	0.001059	69.050237	10.375487
sigmoid_pos	0.479325	5.000000	1.981407	0.382500	0.000543	68.713834	10.375488
pos_thresh_75	0.014328	0.000000	0.000000	0.035000	0.998922	96.935606	1.893806

In [47]: display\_experiment\_results(experiment\_results["logmel\_cnn14"]["shap\_room"])

	FF	Al	AG	FidIn	SPS	AD	COMP
topK_50_pos	0.851710	0.000000	0.000000	0.012500	0.500000	98.118956	9.682342
topK_30_pos	0.848560	0.000000	0.000000	0.012500	0.700006	98.169940	9.171496
minmax_pos	0.827405	0.000000	0.000000	0.015000	0.721625	98.417334	9.356942
topK_5_pos	0.824963	0.000000	0.000000	0.020000	0.949973	97.573138	7.380256
pos_thresh_50	0.094348	0.000000	0.000000	0.015000	0.996874	97.482746	4.248236
topK_50	0.851710	0.000000	0.000000	0.012500	0.500000	98.118956	9.682342
pos_thresh_25	0.736989	0.000000	0.000000	0.002500	0.957153	98.339164	7.097328
bin	0.851765	0.000000	0.000000	0.012500	0.486988	98.107973	9.707996
minmax	0.844405	0.000000	0.000000	0.032500	0.066837	97.179111	10.367339
topK_5	0.824963	0.000000	0.000000	0.020000	0.949973	97.573138	7.380256
topK_30	0.848560	0.000000	0.000000	0.012500	0.700006	98.169940	9.171496
sigmoid	0.506168	3.000000	1.742611	0.487500	0.001007	61.329066	10.375487
sigmoid_pos	0.507646	3.250000	1.760529	0.487500	0.000519	61.118210	10.375489
pos_thresh_75	0.002504	0.000000	0.000000	0.017500	0.998952	97.195304	1.867501

In [48]: display\_experiment\_results(experiment\_results["logmel\_cnn14"]["shap\_horse"])

	FF	Al	AG	FidIn	SPS	AD	COMP
topK_50_pos	0.790700	0.250000	0.000021	0.005000	0.498750	96.701160	9.658136
topK_30_pos	0.783315	0.000000	0.000000	0.005000	0.700006	97.136170	9.171496
minmax_pos	0.753472	0.000000	0.000000	0.007500	0.727941	97.820484	9.333287
topK_5_pos	0.731783	0.500000	0.035988	0.022500	0.949973	95.778565	7.380256
pos_thresh_50	0.105709	0.500000	0.183895	0.017500	0.996972	97.933361	4.249546
topK_50	0.790346	0.000000	0.000000	0.002500	0.500000	96.830021	9.682342
pos_thresh_25	0.566565	0.250000	0.056373	0.025000	0.961684	96.388969	6.980273
bin	0.790179	0.000000	0.000000	0.005000	0.488257	96.767062	9.705524
minmax	0.788617	0.500000	0.111174	0.017500	0.067695	97.039395	10.367169
topK_5	0.731783	0.500000	0.035988	0.022500	0.949973	95.778565	7.380256
topK_30	0.783315	0.000000	0.000000	0.005000	0.700006	97.136170	9.171496
sigmoid	0.524776	2.000000	0.651637	0.415000	0.001090	68.324909	10.375487
sigmoid_pos	0.526671	2.000000	0.656936	0.422500	0.000559	68.180311	10.375488
pos_thresh_75	0.003823	0.000000	0.000000	0.020000	0.998917	97.433493	1.839846

# Noisy experiments per mask - mel model

topK_	_50_pos						
	FF	AI	AG	FidIn	SPS	AD	COMP
saliency	0.711187	33.500000	0.008936	0.740000	0.130000	25.823075	2.517409
gradcam	0.614136	20.250000	0.893746	0.607500	0.279487	41.206521	5.423134
lime	0.661313	16.000000	5.634841	0.500000	0.436864	50.420390	9.111391
shap	0.711886	0.750000	0.244812	0.022500	0.500000	97.824995	9.682342
topK_	_30_pos	-					
	FF	AI	AG	FidIn	SPS	AD	СОМР
saliency	0.713260	0.500000	0.167238	0.022500	0.700006	97.713266	9.171496
gradcam	0.505541	14.750000	0.745458	0.435000	0.471790	56.855287	6.193129
lime	0.579215	10.250000	4.118605	0.360000	0.652824	64.582763	9.145879
shap	0.712044	0.750000	0.239618	0.022500	0.700006	97.841799	9.171496
minma	ax_pos						
	FF	Al	AG	FidIn	SPS	AD	СОМР
saliency	0.692836	0.500000	0.218395	0.097500	0.783585	92.282427	9.085012
gradcam	0.410146	1.750000	0.942405	0.162500	0.455976	86.221599	8.168055
lime	0.640139	5.500000	2.943990	0.292500	0.518476	72.855762	9.778432
shap	0.703274	0.250000	0.133555	0.012500	0.721409	97.693956	9.358230
topK_	_5_pos						
topK_	_5_pos <b>FF</b>	AI	AG	FidIn	SPS	AD	СОМР
topK_			AG 0.000489	FidIn 0.007500	SPS 0.949973	AD 98.096582	<b>COMP</b> 7.380256
	<b>FF</b> 0.684671	Al		0.007500			
saliency	<b>FF</b> 0.684671	AI 0.250000	0.000489	0.007500	0.949973	98.096582	7.380256
saliency gradcam lime	0.684671 0.216855	AI 0.250000 7.000000	<b>0.000489</b> 0.001045	0.007500 0.222500	<b>0.949973 0.785255</b> 0.905188	98.096582 78.898717	7.380256 <b>6.123648</b>
saliency gradcam lime shap	0.684671 0.216855 0.287501	Al 0.250000 7.000000 2.500000 0.250000	0.000489 0.001045 0.941833	<b>0.007500 0.222500</b> 0.165000	<b>0.949973 0.785255</b> 0.905188	<b>98.096582 78.898717</b> 83.750481	7.380256 <b>6.123648</b> <b>7.976897</b>
saliency gradcam lime shap	0.684671 0.216855 0.287501 0.697975	Al 0.250000 7.000000 2.500000 0.250000	0.000489 0.001045 0.941833	<b>0.007500 0.222500</b> 0.165000	<b>0.949973 0.785255</b> 0.905188	<b>98.096582 78.898717</b> 83.750481	7.380256 <b>6.123648</b> <b>7.976897</b>
saliency gradcam lime shap	0.684671 0.216855 0.287501 0.697975 thresh_50	Al 0.250000 7.000000 2.500000 0.250000	0.001045 0.001045 0.941833 0.142618	<b>0.007500 0.222500</b> 0.165000 0.010000	0.949973 0.785255 0.905188 0.949973	<b>98.096582 78.898717</b> 83.750481 97.190341	7.380256 <b>6.123648</b> <b>7.976897</b> 7.380256
saliency gradcam lime shap	0.684671 0.216855 0.287501 0.697975 thresh_50 FF	AI 0.250000 7.000000 2.500000 0.250000	0.000489 0.001045 <b>0.941833</b> 0.142618	0.007500 0.222500 0.165000 0.010000	0.949973 0.785255 0.905188 0.949973	98.096582 78.898717 83.750481 97.190341	7.380256 6.123648 7.976897 7.380256 COMP
saliency gradcam lime shap pos_t	0.684671 0.216855 0.287501 0.697975 thresh_50 FF	Al 0.250000 2.500000 Al 0.500000	0.001045 0.941833 0.142618 AG 0.231756	0.007500 0.222500 0.165000 0.010000 FidIn 0.030000	0.949973 0.785255 0.905188 0.949973 SPS 0.998951	98.096582 78.898717 83.750481 97.190341 AD 96.144690 77.713635	7.380256 6.123648 7.976897 7.380256 COMP 2.895157

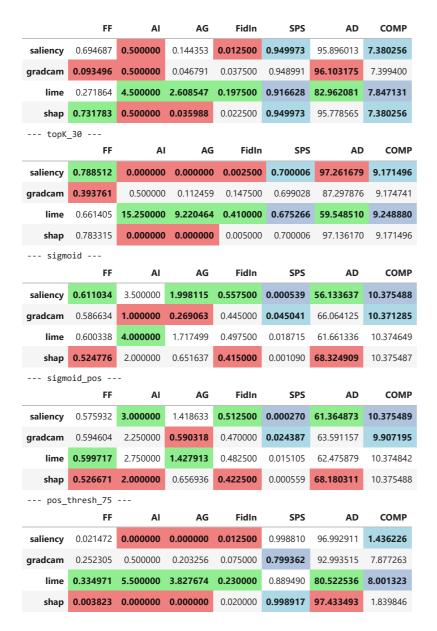
--- topK\_50 ---

	FF	AI	AG	FidIn	SPS	AD	СОМР
saliency	0.711844	0.500000	0.152851	0.022500	0.500000	97.705562	9.682342
gradcam	0.552455	5.500000	2.573893	0.295000	0.499046	72.596259	9.684244
lime	0.662247	13.750000	6.180197	0.472500	0.466966	53.109267	9.745278
shap	0.711886	0.750000	0.244812	0.022500	0.500000	97.824995	9.682342
pos_	thresh_25						
	FF	AI	AG	FidIn	SPS	AD	COMP
saliency	0.401641	0.500000	0.373531	0.017500	0.992541	97.025918	5.222511
gradcam	0.468688	10.250000	2.453414	0.367500	0.425916	64.554318	6.746623
lime	0.655500	17.500000	8.751325	0.552500	0.506206	44.721665	9.431775
shap	0.672602	0.000000	0.000000	0.007500	0.949855	97.280215	7.272439
bin	 FF	AI	AG	FidIn	SPS	AD	СОМР
saliency	0.711797	0.500000	0.154952	0.022500	0.502741	97.699524	9.676811
gradcam	0.525461	17.500000	2.581020	0.512500	0.291756	49.678478	5.421575
lime	0.698807	33.000000	9.173222	0.802500	0.187839	19.662564	8.035213
shap	0.711988	0.750000	0.248318	0.022500	0.488620	97.833368	9.704824
minm							
	FF	AI	AG	FidIn	SPS	AD	СОМР
saliency	0.696040	4.750000	3.091045	0.100000	0.035331	89.111772	10.372436
gradcam	0.545315	1.750000	1.097447	0.205000	0.346016	81.677592	10.148300
lime	0.650653	7.500000	3.857558	0.312500	0.404169	70.803649	10.041011
shap	0.707670	0.000000	0.000000	0.017500	0.081259	97.210593	10.363955
topK	_5						
	FF	Al	AG	FidIn	SPS	AD	СОМР
saliency	0.684671	0.250000	0.000489	0.007500	0.949973	98.096582	7.380256
gradcam	0.135258	0.250000	0.061111	0.072500	0.948942	94.265772	7.400324
lime	0.287501	2.500000	0.941833	0.165000	0.905188	83.750481	7.976897
shap	0.697975	0.250000	0.142618	0.010000	0.949973	97.190341	7.380256
topK	_30 <b>FF</b>	Al	AG	FidIn	SPS	AD	СОМР
saliency	0.713260	0.500000	0.167238	0.022500	0.700006	97.713266	9.171496
gradcam	0.424544	2.500000	1.225035	0.162500	0.698856	83.821378	9.175311
lime	0.579628	9.750000	4.344005	0.355000	0.662899	65.144924	9.284801
shap	0.712044	0.750000	0.239618	0.022500	0.700006	97.841799	9.171496
sigm							
- 0	FF	AI	AG	FidIn	SPS	AD	СОМР
saliency	0.551305	8.500000	4.459896	0.475000	0.000461	59.525578	10.375489
gradcam	0.514553	5.250000	1.909778	0.372500	0.021902	67.792329	10.374392
lime	0.557128	8.000000	3.849324	0.400000	0.015987	65.894878	10.374765
shap	0.479686	5.000000	1.995867	0.380000	0.001059	69.050237	10.375487
sigm	oid_pos	-					
	FF	Al	AG	FidIn	SPS	AD	СОМР
saliency	0.522588	7.750000	3.455112	0.437500	0.000231	62.839069	10.375489
gradcam	0.523629	5.500000	2.505811	0.380000	0.014241	66.113705	8.922229
lime	0.555825	7.750000	3.768270	0.397500	0.014469	65.821870	10.374838
iiiie							
shap	<b>0.479325</b> thresh_75	5.000000	1.981407	0.382500	0.000543	68.713834	10.375488

		FF	Al	AG	FidIn	SPS	AD	СОМР
	saliency	0.036789	0.000000	0.000000	0.040000	0.998531	96.320461	1.172918
	gradcam	0.221672	0.500000	0.140789	0.100000	0.744493	91.608840	6.855313
	lime	0.408775	5.250000	2.258470	0.232500	0.833223	77.525328	8.406193
	shap	0.014328	0.000000	0.000000	0.035000	0.998922	96.935606	1.893806
50]:	display	experimen	nt results(	mask expe	riment res	ults["logr	mel_cnn14"]	["room"])
-		_ ' _50_pos		'	_			2,
		FF	AI	AG	FidIn	SPS	AD	СОМР
	saliency	0.850203	27.500000	0.012627	0.702500	0.148750	29.305257	2.880497
	gradcam	0.668335	17.250000	1.008166	0.617500	0.328214	42.260622	6.367208
	lime	0.798785	9.500000	3.636989	0.525000	0.464438	49.644509	9.458127
	shap	0.851710	0.000000	0.000000	0.012500	0.500000	98.118956	9.682342
	topK	_30_pos	-					
		FF	AI	AG	FidIn	SPS	AD	СОМР
	saliency	0.850450	0.000000	0.000000	0.012500	0.700006	98.049265	9.171496
	gradcam	0.486541	10.500000	0.239852	0.420000	0.531212	61.049522	6.972964
	lime	0.676898	6.500000	2.843740	0.387500	0.673583	64.811349	9.253550
	shap	0.848560	0.000000	0.000000	0.012500	0.700006	98.169940	9.171496
	minma	ax_pos		4.0	r:Ji.	CDC	AD	COMP
		0.702550	AI	AG	FidIn	SPS	AD	COMP
	saliency	0.792559	0.500000	0.203990	0.082500	0.776979	94.064579	9.124298
	gradcam	0.423235	0.500000	0.199748	0.227500	0.443651	82.143535	8.833017
	lime	0.756595		0.992075		0.571562	78.168436	
	shap	0.827405		0.000000	0.015000	0.721625	98.417334	9.356942
	topk	_5_pos <b>FF</b>	AI	AG	FidIn	SPS	AD	СОМР
-	saliency	0.767658		0.000000	0.017500	0.949973	97.447247	7.380256
	gradcam	0.146298		0.001370	0.157500	0.846877	85.612666	6.605827
	lime	0.266324		1.102891		0.917428	84.912562	
	shap		0.000000				97.573138	
	pos	thresh 50						
		FF	AI	AG	FidIn	SPS	AD	СОМР
	saliency	0.084090	0.500000	0.139204	0.017500	0.998847	97.229904	3.085727
	gradcam	0.359791	2.500000	0.887836	0.307500	0.578761	74.486631	8.102020
	lime	0.545840	5.000000	2.517829	0.305000	0.778948	73.029173	8.678135
	shap	0.094348	0.000000	0.000000	0.015000	0.996874	97.482746	4.248236
	topK	_50						
		FF	Al	AG	FidIn	SPS	AD	СОМР
	saliency	0.850926	0.000000	0.000000	0.012500	0.500000	98.101977	9.682342
	gradcam	0.595904	5.000000	2.359680	0.420000	0.499191	62.660099	9.683955
	P	0.799169	9.250000	4.255971	0.515000	0.477797	50.872538	9.725150
	lime		0.000000	0.000000	0.012500	0.500000	98.118956	9.682342
	shap	0.851710	0.00000					
	shap	<b>0.851710</b> thresh_25						
	shap			AG	FidIn	SPS	AD	СОМР
	shap	thresh_25		0.322935	0.025000			
	shap	thresh_25 <b>FF</b>	 AI	0.322935	0.025000	0.990745	96.956076	5.463568
	shap pos_	thresh_25 FF 0.387386	 <b>AI</b> 0.750000	0.322935	0.025000 <b>0.525000</b>	0.990745	96.956076 <b>52.363291</b>	<b>5.463568</b> 7.450421
	shap pos_' saliency gradcam lime	thresh_25 FF 0.387386 0.527990	AI 0.750000 11.500000	0.322935 3.756792 <b>4.545312</b>	0.025000 <b>0.525000</b>	<b>0.990745 0.397862</b> 0.598970	96.956076 <b>52.363291</b> 53.206029	5.463568 7.450421 9.283331

FF			FF	AI	AG	i FidIn	SPS	AD	СОМР
		saliency	0.850942	0.000000	0.000000	0.012500	0.501831	98.092801	9.678648
		gradcam	0.624240	17.750000	2.535232	0.640000	0.262654	37.189112	5.514689
FF		lime	0.834635	23.500000	10.195292	0.822500	0.209794	21.226862	9.733310
Saliency   0.824409   3.50000   2.88219   0.120000   0.38316   8.18697   10.371979   10.66077		shap	0.851765	0.000000	0.000000	0.012500	0.486988	98.107973	9.707996
		minm	ax						
			FF	Al	AG	FidIn	SPS	AD	СОМР
		saliency	0.824409	3.500000	2.288219	0.120000	0.038916	88.186978	10.371979
Shap   0.844405   0.00000   0.000000   0.032500   0.066837   97.179111   10.367339		gradcam	0.553310	1.250000	0.567462	0.272500	0.331609	76.075949	10.168407
F		lime	0.772831	2.500000	0.968496	0.272500	0.402202	75.515457	10.056722
Seliency   0.767655   0.00000   0.00000   0.017500   0.94973   97.47247   7.380256		shap	0.844405	0.000000	0.000000	0.032500	0.066837	97.179111	10.367339
saliency         0.767658         0.000000         0.000000         0.049973         97.447247         7.380256           gradcam         0.077974         0.000000         0.000000         0.060000         0.948871         95.577794         7.401692           lime         0.266324         2.000000         1.102891         0.170000         0.917428         84.912562         7.843242           shap         0.824963         0.000000         0.00000         0.020000         0.949973         97.573138         7.380256           saliency         0.850450         0.00000         0.00000         0.012500         0.700006         98.049265         9.171496           gradcam         0.382163         2.000000         0.734136         0.252500         0.698899         78.883797         9.175169           lime         0.676898         6.500000         2.843740         0.387500         0.673838         64.811349         9.253550           shap         0.848560         0.00000         0.00000         0.012500         0.700006         98.169940         9.171496           gradcam         0.596854         6.00000         3.486621         0.572500         0.00517         51.145875         10.375488           gradcam		topK	_						
gradcam   0.077974   0.000000   0.000000   0.048871   0.5777794   7.401692   1.10000   0.917428   3.912562   7.843242   3.68   0.824963   0.000000   0.000000   0.020000   0.949973   97.573138   7.380256   0.000000   0.000000   0.000000   0.049973   97.573138   7.380256   0.000000									
Saliency   Signature   Sign								_	
shap         0.824963         0.000000         0.000000         0.020000         0.949973         97.573138         7.3802256           FF         AI         AG         FidIn         SPS         AD         COMP           saliency         0.850450         0.000000         0.000000         0.012500         0.700006         98.049265         9.171496           Imme         0.676898         6.500000         2.843740         0.387500         0.678583         64.811349         9.253550           shap         0.848560         0.000000         0.000000         0.012500         0.700006         98.169940         9.171496           FF         AI         AG         FidIn         SPS         AD         COMP           saliency         0.596854         6.000000         3.486621         0.572500         0.00517         51.145875         10.375488           gradcam         0.558448         3.000000         1.595127         0.535000         0.015792         56.987103         10.375481           FF         AI         AG         FidIn         SPS         AD         COMP           saliency         0.560561         4.750000 </th <th></th> <th>_</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>		_							
Saliency   0.850450   0.000000   0.000000   0.012500   0.700006   98.049265   9.171496									
Seliency   O.850450   O.000000   O.000000   O.012500   O.700006   98.049265   9.171496				0.000000	0.000000	0.020000	0.949973	97.573138	7.380256
saliency         0.850450         0.000000         0.000000         0.012500         0.700006         98.049265         9.171496           gradcam         0.382163         2.000000         0.734136         0.252500         0.698899         78.883797         9.175169           lime         0.676898         6.500000         2.843740         0.387500         0.673583         64.811349         9.253550           shap         0.848560         0.000000         0.000000         0.012500         0.700006         98.169940         9.171496           saliency         0.596854         6.000000         3.486621         0.572500         0.000517         51.45875         10.375488           gradcam         0.558488         3.000000         1.595127         0.535000         0.023322         57.189180         10.375483           lime         0.598789         3.250000         1.933977         0.502500         0.015792         56.987103         10.375487           saliency         0.566168         3.000000         1.742611         0.487500         0.01007         51.32906         10.375489           gradcam         0.565595         3.500000         1.996462         0.545000         0.016902         56.205281         9.492769      <		topK	_	ΑI	AG	FidIn	SPS	AD	COMP
gradcam   0.382163   2.000000   0.734136   0.252500   0.698899   78.883797   9.175169   1		saliency							
lime		•							
shap         0.848560         0.000000         0.000000         0.012500         0.700006         98.169940         9.171496           saliency         0.596854         6.000000         3.486621         0.572500         0.000517         51.145875         10.375488           gradcam         0.558448         3.000000         1.595127         0.535000         0.023322         57.189180         10.374343           lime         0.598789         3.250000         1.933977         0.502500         0.015792         56.987103         10.375487           saliency         0.56168         3.000000         1.742611         0.487500         0.001077         61.329066         10.375487           saliency         0.560614         4.750000         2.692710         0.545000         0.000259         54.839926         10.375489           gradcam         0.596873         3.250000         1.996462         0.542500         0.016902         56.205281         9.492769           lime         0.596873         3.250000         1.760529         0.487500         0.0016902         56.205281         9.492769           saliency         0.022937         0.000000         0.00000         0.025000         0.998625		_							
Saliency   0.596854   6.000000   3.486621   0.572500   0.000517   51.145875   10.375488   10.374343   10.00000   0.598789   3.250000   0.333977   0.502500   0.015792   56.987103   10.374343   10.00000   0.742611   0.487500   0.001007   61.329066   10.375487   10.375488   10.375487   10.375489   10.37548									
FF									
gradcam   0.558448   3.00000   1.595127   0.535000   0.023322   57.189180   10.374343   1   1   1   1   1   1   1   1   1		· ·		Al	AG	FidIn	SPS	AD	СОМР
		saliency	0.596854	6.000000	3.486621	0.572500	0.000517	51.145875	10.375488
shap         0.506168         3.000000         1.742611         0.487500         0.001007         61.329066         10.375487           FF         AI         AG         FidIn         SPS         AD         COMP           saliency         0.560614         4.750000         2.692710         0.545000         0.000259         54.839926         10.375489           gradcam         0.565595         3.500000         1.996462         0.542500         0.016902         56.205281         9.492769           lime         0.596873         3.250000         1.912635         0.505000         0.014284         57.143269         10.375489           pos_thresh_75          FF         AI         AG         FidIn         SPS         AD         COMP           saliency         0.022937         0.000000         0.000000         0.025000         0.998625         97.008971         1.283964           gradcam         0.182925         0.000000         0.000000         0.135000         0.779125         89.180259         7.443592           lime         0.332176         2.250000         1.468688         0.197500         0.879987         81.625652         8.072819           shap         0.002504		gradcam	0.558448	3.000000	1.595127	0.535000	0.023322	57.189180	10.374343
Saliency   0.560614   4.750000   2.692710   0.545000   0.000259   54.839926   10.375489		lime	0.598789	3.250000	1.933977	0.502500	0.015792	56.987103	10.374777
Saliency   0.560614   4.750000   2.692710   0.545000   0.000259   54.839926   10.375489		shap	0.506168	3.000000	1.742611	0.487500	0.001007	61.329066	10.375487
saliency         0.560614         4.750000         2.692710         0.545000         0.000259         54.839926         10.375489           gradcam         0.565595         3.500000         1.996462         0.542500         0.016902         56.205281         9.492769           lime         0.596873         3.250000         1.912635         0.505000         0.014284         57.143269         10.374840           shap         0.507646         3.250000         1.760529         0.487500         0.000519         61.118210         10.375489           FF         AI         AG         FidIn         SPS         AD         COMP           saliency         0.022937         0.000000         0.000000         0.025000         0.998625         97.008971         1.283964           gradcam         0.182925         0.000000         0.000000         0.135000         0.779125         89.180259         7.443592           lime         0.332176         2.250000         1.468688         0.197500         0.879987         81.625652         8.072819           shap         0.002504         0.000000         0.000000         0.017500         0.998952         97.195304         1.867501		sigm	oid_pos						
Section   Sect			FF	Al	AG	FidIn	SPS	AD	СОМР
lime   0.596873   3.250000   1.912635   0.505000   0.014284   57.143269   10.374840   shap   0.507646   3.250000   1.760529   0.487500   0.000519   61.118210   10.375489     pos_thresh_75       FF   Al		saliency	0.560614	4.750000	2.692710	0.545000	0.000259	54.839926	10.375489
shap         0.507646         3.250000         1.760529         0.487500         0.000519         61.118210         10.375489           FF         AI         AG         FidIn         SPS         AD         COMP           saliency         0.022937         0.000000         0.000000         0.025000         0.998625         97.008971         1.283964           gradcam         0.182925         0.000000         0.000000         0.135000         0.779125         89.180259         7.443592           lime         0.332176         2.250000         1.468688         0.197500         0.879987         81.625652         8.072819           shap         0.002504         0.000000         0.000000         0.017500         0.998952         97.195304         1.867501           FF         AI         AG         FidIn         SPS         AD         COMP           saliency         0.790265         23.000000         0.013285         0.490000         0.256250         49.703418         4.962200           gradcam         0.668792         17.750000         0.868279         0.53000         0.343064         5		gradcam	0.565595	3.500000	1.996462	0.542500	0.016902	56.205281	9.492769
FF AI AG FidIn SPS AD COMP  saliency 0.022937 0.000000 0.000000 0.135000 0.779125 89.180259 7.443592  lime 0.332176 2.250000 1.468688 0.197500 0.879987 81.625652 8.072819  shap 0.002504 0.000000 0.000000 0.017500 0.998952 97.195304 1.867501  51]: display_experiment_results(mask_experiment_results["logmel_cnn14"]["horse"])  topK_50_pos  FF AI AG FidIn SPS AD COMP  saliency 0.790265 23.000000 0.013285 0.490000 0.256250 49.703418 4.962200  gradcam 0.668792 17.750000 0.868279 0.530000 0.343064 50.479869 6.657979  lime 0.766223 21.750000 10.250147 0.660000 0.442753 37.849872 9.047391  shap 0.790700 0.250000 0.000021 0.005000 0.498750 96.701160 9.658136		lime	0.596873	3.250000	1.912635	0.505000	0.014284	57.143269	10.374840
Seliency   0.022937   0.000000   0.000000   0.025000   0.998625   97.008971   1.283964		shap	0.507646	3.250000	1.760529	0.487500	0.000519	61.118210	10.375489
saliency         0.022937         0.000000         0.000000         0.025000         0.998625         97.008971         1.283964           gradcam         0.182925         0.000000         0.000000         0.135000         0.779125         89.180259         7.443592           lime         0.332176         2.250000         1.468688         0.197500         0.879987         81.625652         8.072819           shap         0.002504         0.000000         0.000000         0.017500         0.998952         97.195304         1.867501           51]:         display_experiment_results(mask_experiment_results["logmel_cnn14"]["horse"])         topK_50_pos         FF         AI         AG         FidIn         SPS         AD         COMP           saliency         0.790265         23.000000         0.013285         0.490000         0.256250         49.703418         4.962200           gradcam         0.668792         17.750000         0.868279         0.530000         0.343064         50.479869         6.657979           lime         0.766223         21.750000         10.250147         0.660000         0.442753         37.849872         9.047391           shap         0.790700         0.250000         0.000021         0.005000		pos_	_						
gradcam         0.182925         0.000000         0.000000         0.135000         0.779125         89.180259         7.443592           lime         0.332176         2.250000         1.468688         0.197500         0.879987         81.625652         8.072819           shap         0.002504         0.000000         0.000000         0.017500         0.998952         97.195304         1.867501           1: display_experiment_results(mask_experiment_results("logmel_cnn14")["horse"])           FF         AI         AG         Fid In         SPS         AD         COMP           saliency         0.790265         23.000000         0.013285         0.490000         0.256250         49.703418         4.962200           gradcam         0.668792         17.750000         0.868279         0.530000         0.343064         50.479869         6.657979           lime         0.766223         21.750000         10.250147         0.660000         0.442753         37.849872         9.047391           shap         0.790700         0.250000         0.000021         0.005000         0.498750         96.701160         9.658136									
lime         0.332176         2.250000         1.468688         0.197500         0.879987         81.625652         8.072819           shap         0.002504         0.000000         0.000000         0.017500         0.998952         97.195304         1.867501           51]:         display_experiment_results(mask_experiment_results["logmel_cnn14"]["horse"])         topK_50_pos         FF         AI         AG         FidIn         SPS         AD         COMP           saliency         0.790265         23.000000         0.013285         0.490000         0.256250         49.703418         4.962200           gradcam         0.668792         17.750000         0.868279         0.530000         0.343064         50.479869         6.657979           lime         0.766223         21.750000         10.250147         0.660000         0.442753         37.849872         9.047391           shap         0.790700         0.250000         0.000021         0.005000         0.498750         96.701160         9.658136									
shap       0.002504       0.000000       0.000000       0.017500       0.998952       97.195304       1.867501         stap       colspan="8">colspan="8"									
display_experiment_results(mask_experiment_results["logmel_cnn14"]["horse"])									
topK_50_pos FF AI AG FidIn SPS AD COMP saliency 0.790265 23.000000 0.013285 0.490000 0.256250 49.703418 4.962200 gradcam 0.668792 17.750000 0.868279 0.530000 0.343064 50.479869 6.657979 lime 0.766223 21.750000 10.250147 0.660000 0.442753 37.849872 9.047391 shap 0.790700 0.250000 0.000021 0.005000 0.498750 96.701160 9.658136		shap	0.002504	0.000000	0.000000	0.017500	0.998952	97.195304	1.867501
saliency         0.790265         23.000000         0.013285         0.490000         0.256250         49.703418         4.962200           gradcam         0.668792         17.750000         0.868279         0.530000         0.343064         50.479869         6.657979           lime         0.766223         21.750000         10.250147         0.660000         0.442753         37.849872         9.047391           shap         0.790700         0.250000         0.000021         0.005000         0.498750         96.701160         9.658136	51]	display	_experime	nt_results(	mask_exper	riment_resu	ılts["logme	el_cnn14"][	["horse"])
saliency         0.790265         23.000000         0.013285         0.490000         0.256250         49.703418         4.962200           gradcam         0.668792         17.750000         0.868279         0.530000         0.343064         50.479869         6.657979           lime         0.766223         21.750000         10.250147         0.660000         0.442753         37.849872         9.047391           shap         0.790700         0.250000         0.000021         0.005000         0.498750         96.701160         9.658136		topK	_50_pos						
gradcam         0.668792         17.750000         0.868279         0.530000         0.343064         50.479869         6.657979           lime         0.766223         21.750000         10.250147         0.660000         0.442753         37.849872         9.047391           shap         0.790700         0.250000         0.000021         0.005000         0.498750         96.701160         9.658136			FF	AI	AG	i FidIn	SPS	AD	СОМР
lime         0.766223         21.750000         10.250147         0.660000         0.442753         37.849872         9.047391           shap         0.790700         0.250000         0.000021         0.005000         0.498750         96.701160         9.658136		saliency	0.790265	23.000000	0.013285	0.490000	0.256250	49.703418	4.962200
shap 0.790700 0.250000 0.000021 0.005000 0.498750 96.701160 9.658136		gradcam	0.668792	17.750000	0.868279	0.530000	0.343064	50.479869	6.657979
		lime	0.766223	21.750000	10.250147	0.660000	0.442753	37.849872	9.047391
topK_30_pos		shap	0.790700	0.250000	0.000021	0.005000	0.498750	96.701160	9.658136
		topK	_30_pos						

	FF	AI	AG	FidIn	SPS	AD	СОМР
saliency	0.788512	0.000000	0.000000	0.002500	0.700006	97.261679	9.171496
gradcam	0.460496	9.500000	0.002530	0.292500	0.573245	72.849382	7.523147
lime	0.661359	15.500000	9.220467	0.412500	0.673541	59.308304	9.225868
shap	0.783315	0.000000	0.000000	0.005000	0.700006	97.136170	9.171496
•	ax pos		0.000000	0.003000	0.7 00000	371.1301.70	3.171.30
	FF	AI	AG	FidIn	SPS	AD	СОМР
saliency	0.769097	0.250000	0.228000	0.067500	0.774741	92.015486	9.143423
gradcam	0.503930	0.750000	0.082838	0.147500	0.489150	88.137385	9.194560
lime	0.699449	6.750000	4.137273	0.265000	0.604778	75.024040	9.632975
shap	0.753472	0.000000	0.000000	0.007500	0.727941	97.820484	9.333287
•	_5_pos				0.727311	371020101	3.333207
copit_	_5_ρ05 <b>FF</b>	AI	AG	FidIn	SPS	AD	СОМР
saliency	0.694687	0.500000	0.144353	0.012500	0.949973	95.896013	7.380256
gradcam	0.120128	4.000000	0.023954	0.102500	0.882598	89.776911	6.880740
lime	0.271864	4.500000	2.608547	0.197500	0.916628	82.962081	7.847131
shap	0.731783	0.500000	0.035988	0.022500	0.949973	95.778565	7.380256
			0.033300	0.022300	0.545515	33.110303	7.300230
pos_(	FF	AI	AG	FidIn	SPS	AD	СОМР
saliency	0.107345	0.500000	0.187773	0.007500	0.998754	97.551229	3.272936
gradcam	0.449661	1.750000	0.535797	0.235000	0.606163	79.931454	8.681950
lime	0.527356	10.500000	7.369041	0.315000	0.790181	70.759820	8.655861
shap	0.105709	0.500000	0.183895	0.017500	0.996972	97.933361	4.249546
topK							
	FF	AI	AC	5 Fidle	n SP:	C A.	
		711	711	J Hull	J - J	S AI	о сом
saliency	0.789462	0.000000	0.000000				
saliency gradcam	0.789462 <b>0.612748</b>			0.002500	0.50000	96.98303	9.68234
		0.000000	0.00000	0.002500 5 0.312500	0.50000	<b>96.98303</b> 3 71.58458	<b>9.68234</b> 6 9.68424
gradcam	0.612748	<b>0.000000</b> 3.500000	0.000000 1.867879 12.026947	0.002500 5 0.312500	0.50000 0.49904 0 0.47603	96.98303 71.58458 39.53786	<ul><li>9.68234</li><li>9.68424</li><li>9.72846</li></ul>
gradcam lime shap	<b>0.612748</b> 0.762015	0.000000 3.500000 22.250000 0.000000	0.000000 1.867879 12.026947	0.002500 5 0.312500 7 0.642500	0.50000 0.49904 0 0.47603	96.98303 71.58458 39.53786	<ul><li>9.68234</li><li>9.68424</li><li>9.72846</li></ul>
gradcam lime shap	<b>0.612748</b> 0.762015 <b>0.790346</b>	0.000000 3.500000 22.250000 0.000000	0.000000 1.867875 12.026945 0.000000	0.002500 0.312500 7 0.642500 0.002500	0.500000 0.49904 0 0.476033 0 0.500000	96.98303 71.584586 5 39.53786 0 96.83002	9.68234 9.68424 9.72846 9.68234
gradcam lime shap	0.612748 0.762015 0.790346 chresh_25	0.000000 3.500000 22.250000 0.000000	0.000000 1.867879 12.026947 0.000000	0 0.002500 5 0.312500 7 0.642500 0 0.002500 6 Fidli	0.500000 0.49904 0.476033 0.500000	96.98303 <sup>3</sup> 71.584586 5 39.537866 0 96.83002	9.68234 9.68424 9.72846 9.68234 COM
gradcam lime shap	0.612748 0.762015 0.790346 chresh_25 FF	0.000000 3.500000 22.250000 0.000000	0.000000 1.867879 12.026947 0.000000	0.002500 0.312500 7 0.642500 0 0.002500 5 Fidh	0.500000 0.49904 0.476033 0.500000 0.5000000 0.989093	96.98303 <sup>3</sup> 71.584586 5 39.537866 9 96.83002 5 AI 8 97.488239	9.68234 9.68424 9.72846 9.68234 COM 9.68215
gradcam lime shap pos_t	0.612748 0.762015 0.790346 chresh_25 FF 0.384352	0.000000 3.500000 22.250000 0.000000 AI	0.000000 1.867879 12.026947 0.0000000 AC 0.495888	0.002500 5 0.312500 7 0.642500 0 0.002500 6 Fidh 3 0.010000 0 0.442500	0.500000 0.49904 0.47603 0.500000 0.500000 0.500000 0.437850	96.98303° 71.584586 5 39.537866 0 96.83002  S AU  97.488239 5 59.268579	9.68234 9.68424 9.72846 9.68234 COM 9.68215 9.863362
gradcam lime shap pos_t saliency gradcam	0.612748 0.762015 0.790346 chresh_25 FF 0.384352 0.575871	0.000000 3.500000 22.250000 0.000000 AI 1.000000 8.000000	0.000000 1.867879 12.026941 0.000000 AC 0.495883 1.853760 10.393404	0.002500 0.312500 7 0.642500 0.002500 5 Fidli 3 0.010000 0 0.442500 4 0.512500	0.500000 0.49904 0.47603 0.500000 1 SP: 0.989099 0.43785 0 0.62828	96.98303° 71.584586 5 39.537866 0 96.83002 5 All 8 97.488236 0 59.268576 8 50.697775	9.68234 9.68424 9.68424 9.68234 COM 9.68235 9.863362 9.27733
gradcam lime shap pos_t saliency gradcam lime	0.612748 0.762015 0.790346 thresh_25 FF 0.384352 0.575871 0.701000 0.566565	0.000000 3.500000 22.250000 0.000000 AI 1.000000 8.000000	0.000000 1.867879 12.026941 0.000000 AC 0.495883 1.853760 10.393404	0.002500 0.312500 7 0.642500 0.002500 5 Fidli 3 0.010000 0 0.442500 4 0.512500	0.500000 0.49904 0.47603 0.500000 1 SP: 0.989099 0.43785 0 0.62828	96.98303° 71.584586 5 39.537866 0 96.83002 5 All 8 97.488236 0 59.268576 8 50.697775	9.68234 9.68424 9.68424 9.68234 COM 9.68235 9.863362 9.27733
gradcam lime shap pos_t saliency gradcam lime shap	0.612748 0.762015 0.790346 thresh_25 FF 0.384352 0.575871 0.701000 0.566565	0.000000 3.500000 22.250000 0.000000 AI 1.000000 8.000000	0.000000 1.867879 12.026943 0.000000 AC 0.495883 1.853760 10.393404 0.056373	0 0.002500 0 0.312500 0 0.642500 0 0.002500 6 Fidh 0 0.010000 0 0.442500 4 0.512500 3 0.025000	0.49904 0.49904 0.47603 0.500000 0.500000 0.989099 0.43785 0.96168	96.98303 71.58458 5 39.53786 0 96.83002 5 AI 8 97.48823 0 59.26857 4 96.38896	9.68234 9.68424 2 9.72846 1 9.68234 COM 9 5.68215 9 8.63362 9 9.27733 9 6.98027
gradcam lime shap pos_t saliency gradcam lime shap	0.612748 0.762015 0.790346 thresh_25 FF 0.384352 0.575871 0.701000 0.566565	0.000000 3.500000 0.000000 AI 1.000000 8.000000 15.500000 0.250000	0.000000 1.867879 12.026947 0.000000 AC 0.495883 1.853760 10.393404 0.056373	0.002500 0.312500 7 0.642500 0.002500 6 Fidla 0.010000 0.442500 4 0.512500 6 Fidla	0.500000 0.49904 0.47603 0.500000 0.500000 0.500000 0.43785 0.628288 0.96168	96.98303° 71.584586 3 71.584586 5 39.537866 9 96.83002  S AI 8 97.488239 5 59.268579 9 6.388966	9.68234 9.68424 9.68424 9.68234 COM 9.68235 9.68215 9.8.63362 9.27733 6.98027 COM
gradcam lime shap pos_t saliency gradcam lime shap bin	0.612748 0.762015 0.790346 chresh_25 FF 0.384352 0.575871 0.701000 0.566565	0.000000 3.500000 22.250000 0.000000 AI 1.000000 8.000000 15.500000 AI	0.000000 1.867879 12.026943 0.000000 AC 0.495883 1.853760 10.393404 0.056373	0 0.002500 0 0.312500 0 0.642500 0 0.002500 6 Fidh 0 0.442500 4 0.512500 6 Fidh 0 0.0025000 6 Fidh	0.49904 0.49904 0.47603 0.500000 1. SP3 0.989099 0.437850 0.628286 0.961686 1. SP3 0.499986	96.98303; 3 71.58458; 5 39.53786; 0 96.83002  S AI  8 97.48823; 0 59.26857; 4 96.38896;  S AI  96.97354;	9.68234 9.68424 9.72846 1 9.68234 COM 9 5.68215 9 8.63362 9 6.98027 COM 0 9.68236
gradcam lime shap pos_t saliency gradcam lime shap bin	0.612748 0.762015 0.790346 chresh_25	0.000000 3.500000 0.000000 1.000000 15.500000 Al 0.0000000	0.000000 1.867879 12.026947 0.000000 AC 0.495883 1.853760 10.393404 0.056373 AC 0.0000000 2.474193	0 0.002500 5 0.312500 7 0.642500 6 Fidli 3 0.010000 4 0.512500 3 0.025000 6 Fidli 0 0.025000 2 0.597500	0.500000 0.49904 0.47603 0.500000 0.500000 0.989093 0.0437850 0.628288 0.961688 0.961688	96.98303; 71.58458; 3 71.58458; 5 39.53786; 0 96.83002  S AU  B 97.48823; 0 59.26857; 4 96.38896; S AU  96.97354; 0 42.43628;	9.68234 9.68424 9.68424 9.68234 0 COM 9.68235 9.27733 9.6.98027 0 COM 0 9.68236
gradcam lime shap pos_t saliency gradcam lime shap bin saliency gradcam	0.612748 0.762015 0.790346 chresh_25 FF 0.384352 0.575871 0.701000 0.566565 FF 0.789513 0.646689	0.000000 3.500000 22.250000 0.000000 AI 1.000000 15.500000 AI 0.0000000 15.0000000	0.000000 1.867879 12.026947 0.000000 AC 0.495883 1.853760 10.393404 0.056373 AC 0.0000000 2.474193	0 0.002500 0 0.312500 0 0.642500 0 0.002500 6 Fidh 0 0.442500 4 0.512500 6 Fidh 0 0.0025000 6 Fidh 0 0.0025000 4 0.832500	0.49904 0.49904 0.47603 0.500000 1. SP3 0.989099 0.437850 0.628286 0.961686 1. SP3 0.499986 0.311810 0.28984	96.98303; 3 71.58458; 5 39.53786; 0 96.83002  S AI  8 97.48823; 0 59.26857; 4 96.38896; 5 AI  9 96.97354; 1 16.62933;	9.68234 9.68424 9.72846 1 9.68234 COM 9 5.68215 9 8.63362 5 9.27733 9 6.98027 COM 0 9.68236 9 6.83278 2 9.85750
gradcam lime shap pos_t saliency gradcam lime shap bin saliency gradcam	0.612748 0.762015 0.790346 chresh_25 FF 0.384352 0.575871 0.701000 0.566565 FF 0.789513 0.646689 0.780829 0.790179	0.000000 3.500000 0.000000 1.000000 8.000000 15.500000 AI 0.0000000 15.0000000 39.2500000	0.000000 1.867879 12.026943 0.000000 AC 0.495883 1.853760 10.393404 0.056373 AC 0.0000000 2.474193	0 0.002500 0 0.312500 0 0.642500 0 0.002500 6 Fidh 0 0.442500 4 0.512500 6 Fidh 0 0.0025000 6 Fidh 0 0.0025000 4 0.832500	0.49904 0.49904 0.47603 0.500000 1. SP3 0.989099 0.437850 0.628286 0.961686 1. SP3 0.499986 0.311810 0.28984	96.98303; 3 71.58458; 5 39.53786; 0 96.83002  S AI  8 97.48823; 0 59.26857; 4 96.38896; 5 AI  9 96.97354; 1 16.62933;	9.68234 9.68424 9.72846 1 9.68234 COM 9 5.68215 9 8.63362 5 9.27733 9 6.98027 COM 0 9.68236 9 6.83278 2 9.85750
gradcam lime shap pos_t saliency gradcam lime shap bin saliency gradcam lime shap	0.612748 0.762015 0.790346 chresh_25 FF 0.384352 0.575871 0.701000 0.566565 FF 0.789513 0.646689 0.780829 0.790179	0.000000 3.500000 0.000000 1.000000 8.000000 15.500000 AI 0.0000000 15.0000000 39.2500000	0.000000 1.867879 12.026947 0.0000000 A0 0.495883 1.853760 10.393404 0.056373 A0 0.0000000 2.474193 20.442444	0 0.002500 0 0.312500 0 0.642500 0 0.002500 6 Fidh 0 0.442500 4 0.512500 6 Fidh 0 0.0025000 6 Fidh 0 0.0025000 4 0.832500	0.49904 0.49904 0.47603 0.500000 1. SP3 0.989099 0.437850 0.628286 0.961686 1. SP3 0.499986 0.311810 0.28984	96.98303; 3 71.58458; 5 39.53786; 0 96.83002  S AI  8 97.48823; 0 59.26857; 4 96.38896; 5 AI  9 96.97354; 1 16.62933;	9.68234 9.68424 9.72846 1 9.68234 COM 9 5.68215 9 8.63362 5 9.27733 9 6.98027 COM 0 9.68236 9 6.83278 9 9.70552
gradcam lime shap pos_t saliency gradcam lime shap bin saliency gradcam lime shap	0.612748 0.762015 0.790346 chresh_25	0.000000 3.500000 22.250000 0.000000 1.000000 15.500000 0.250000 15.000000 15.000000 39.250000	0.000000 1.867879 12.026947 0.000000 0.495883 1.853760 10.393404 0.056373 AC 0.0000000 2.474192 20.442444 0.0000000	0 0.002500 0 0.312500 7 0.642500 0 0.002500 6 Fidh 3 0.010000 4 0.512500 3 0.025000 6 Fidh 0 0.025000 4 0.832500 0 0.005000	0.500000 0.49904 0.47603 0.500000 0.500000 0.989099 0.043785 0.0628288 0.961688 0.961688 0.049998 0.0499984 0.048825	96.98303; 71.58458; 3 71.58458; 5 39.53786; 0 96.83002  S AI  97.48823; 0 59.26857; 4 96.38896; 5 AI  96.97354; 0 42.43628; 7 16.62933; 7 96.76706; AD	7 9.68234 6 9.68424 2 9.72846 1 9.68234 COM 9 5.68215 9 8.63362 5 9.27733 6.98027 COM 0 9.68236 9 6.83278 9 9.70552 COM
gradcam lime shap pos_t saliency gradcam lime shap bin saliency gradcam lime shap minma	0.612748 0.762015 0.790346 chresh_25 FF 0.384352 0.575871 0.701000 0.566565 FF 0.789513 0.646689 0.780829 0.790179 ax FF	0.000000 3.500000 22.250000 0.000000 AI 1.000000 15.500000 15.000000 15.000000 39.250000 AI	0.000000 1.867879 12.026947 0.0000000 AG 0.495883 1.853760 10.393404 0.056373 AG 0.0000000 2.474192 20.442444 0.00000000	0 0.002500 5 0.312500 7 0.642500 6 Fidla 8 0.010000 10 0.442500 4 0.512500 6 Fidla 10 0.002500 2 0.597500 10 0.005000 11 Fidla	0.500000 0.49904 0.47603 0.500000 0.500000 0.500000 0.5000000 0.5000000 0.43785 0.628288 0.961688 0.961688 0.311810 0.28984 0.48825 SPS	96.98303; 71.58458; 3 71.58458; 5 39.53786; 0 96.83002  S AI  97.48823; 0 59.26857; 4 96.38896; 5 AI  96.97354; 0 42.43628; 7 16.62933; 7 96.76706; AD	9.68234 9.68424 9.72846 1 9.68234 COM 9 5.68215 9 8.63362 5 9.27733 9 6.98027 COM 0 9.68236 9 9.85750 2 9.70552 COM 10.37181
gradcam lime shap pos_t saliency gradcam lime shap bin saliency gradcam lime shap minma	0.612748 0.762015 0.790346 chresh_25 FF 0.384352 0.575871 0.701000 0.566565 FF 0.789513 0.646689 0.780829 0.790179 ax FF	0.000000 3.500000 0.000000 1.000000 1.000000 0.250000 AI 0.000000 15.000000 10.000000 AI 10.750000	0.000000 1.867879 12.026947 0.0000000 0.495883 1.853760 10.393404 0.056373 AC 0.0000000 2.474192 20.442444 0.0000000 AG 7.420244	0 0.002500 5 0.312500 7 0.642500 6 Fidli 8 0.010000 4 0.512500 2 0.597500 1 0.0025000 Fidli 0 0.275000 0 0.255000	0.49904 0.49904 0.47603 0.50000 0.500000 0.989093 0.043785 0.043785 0.043785 0.043785 0.043785 0.043785 0.043785 0.043785 0.043785 0.043785 0.0448825 0.0448825 0.044467	96.98303; 3 71.58458; 5 39.53786; 0 96.83002  5 All 8 97.48823; 0 59.26857; 4 96.38896; 5 All 0 96.97354; 4 0 42.43628; 7 16.62933; 7 96.76706; AD 72.473431	9.68234 9.68424 9.68424 9.72846 1 9.68234 0 COM 9 5.68215 9 8.63362 5 9.27733 9 6.98027 0 COM 0 9.68236 9 6.83278 2 9.85750 2 9.70552 COM 10.37181 10.19531
gradcam lime shap pos_t saliency gradcam lime shap bin saliency gradcam lime shap minma saliency gradcam	0.612748 0.762015 0.790346 chresh_25 FF 0.384352 0.575871 0.701000 0.566565 FF 0.789513 0.646689 0.780829 0.790179 ax FF 0.774537 0.665808	0.000000 3.500000 22.250000 0.000000 AI 1.000000 15.500000 15.000000 15.000000 15.000000 AI 10.750000	0.000000000000000000000000000000000000	0 0.002500 5 0.312500 7 0.642500 6 Fidla 8 0.010000 4 0.512500 2 0.597500 1 0.275000 0.255000	0.500000 0.49904 0.47603 0.500000 0.500000 0.500000 0.5000000 0.43785 0.628288 0.961688 0.961688 0.049998 0.311810 0.28984 0.48825 SPS 0.040467 0.302358	96.98303; 71.58458; 3 71.58458; 5 39.53786; 0 96.83002  S AU  8 97.48823; 0 59.26857; 4 96.38896; 5 AU  96.97354; 0 42.43628; 7 16.62933; 7 96.76706; AD  72.473431 78.459776	9.68234. 9.68424 9.72846 1 9.68234. COM 9 5.68215 9 8.63362 5 9.27733 6.98027 COM 0 9.68236 9 6.83278 2 9.85750



## Saving results

```
In [52]: output_dir = "exported_csvs"
         os.makedirs(output_dir, exist_ok=True)
         for model_type, exps in experiment_results.items():
             for exp_name, df in exps.items():
                 fname = f"{model_type}_{exp_name}.csv"
                 df.to_csv(os.path.join(output_dir, fname), index=True)
         for model_type, exps in mask_experiment_results.items():
             for exp_type, masks in exps.items():
                 for mask_name, df in masks.items():
                     fname = f"{model_type}_{exp_type}_{mask_name}.csv"
                     df.to_csv(os.path.join(output_dir, fname), index=True)
         os.makedirs("exported_true", exist_ok=True)
         os.makedirs("exported_false", exist_ok=True)
         for model in model_types:
             for exp_name, df_t in experiment_results_true[model].items():
                 df_t.to_csv(f"exported_true/{model}_{exp_name}_true.csv", index=True)
             for exp_name, df_f in experiment_results_false[model].items():
                 df_f.to_csv(f"exported_false/{model}_{exp_name}_false.csv", index=True)
```