

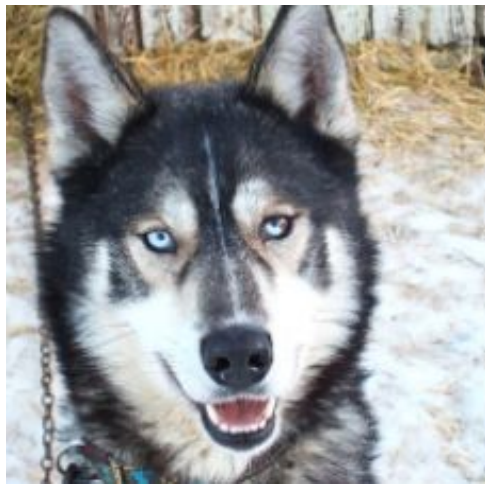
Why Should I Trust You?

Local Interpretable Model-agnostic Explanations
LIME

“... machine learning models remain mostly **black boxes**.”

Ribeiro, M , et. al 2016

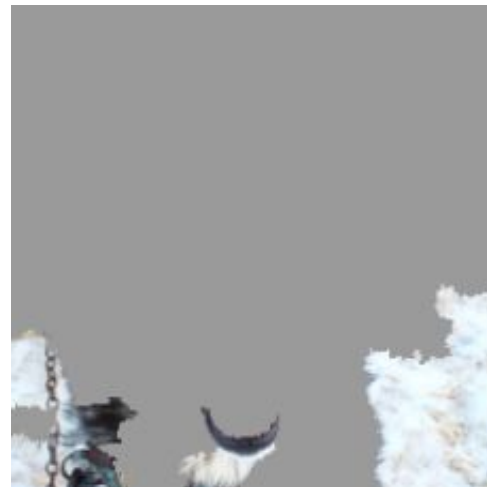
HUSKY classified as **WOLF**



**LIME's
Explanation**



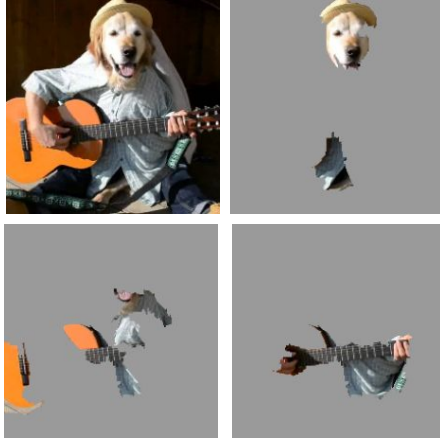
THE WHY



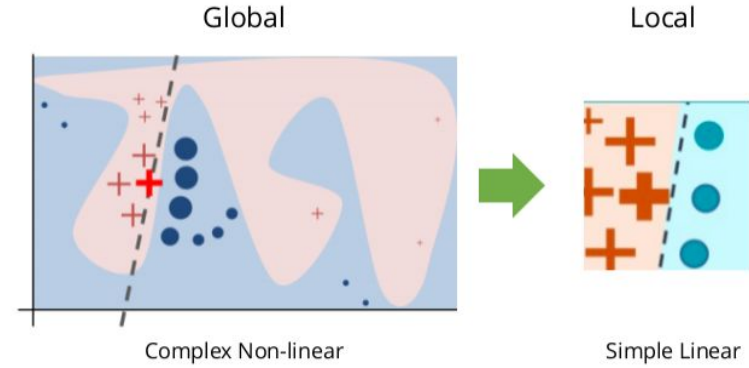
Ribeiro, M , et. al 2016

Explanations' Desiderata

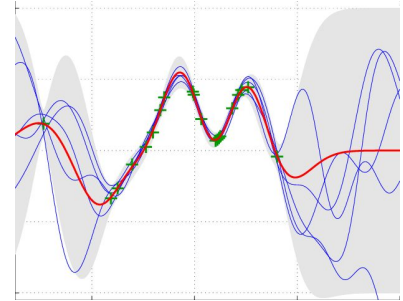
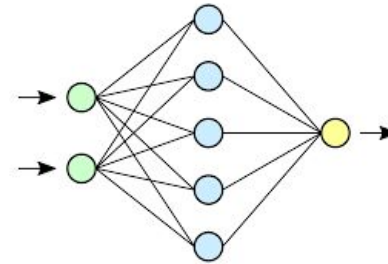
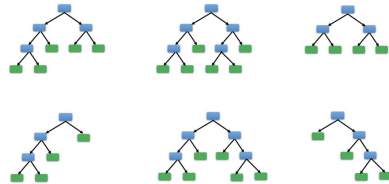
Meaningful



Locally Faithful



Model Agnostic



Friendly Data Representation



Images Space
 $m \times m \times 3$ dimensions



SuperPixels Space
[100 dimensions]

Friendly Data Representation



vector



SP	ON
1	1
2	1
3	1
...	1
98	1
99	1
100	1

Friendly Data Representation

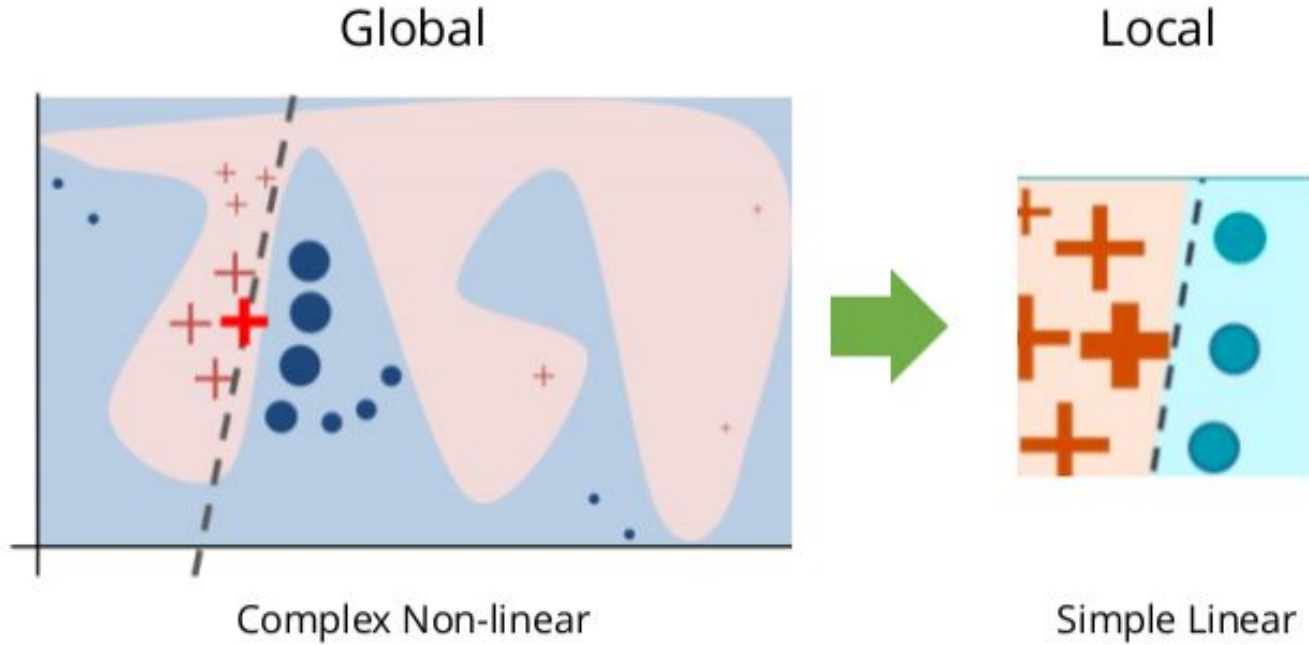


vector

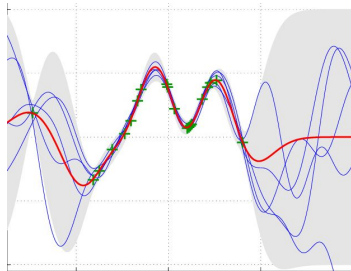
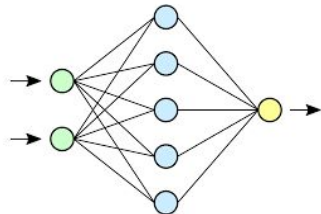
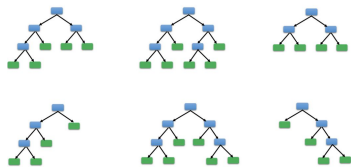


SP	ON
1	1
2	1
3	0
...	...
98	0
99	1
100	0

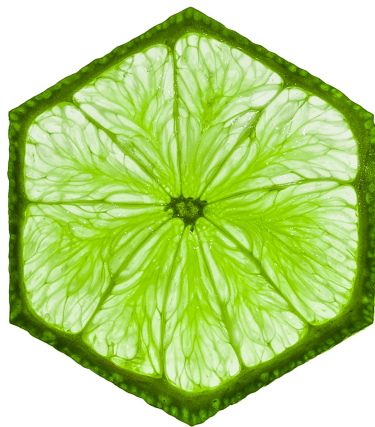
Locally Faithful



Model Agnostic



EXPLANATIONS



TRUST?



<https://github.com/ed-ortizm/AID-explain-me-why> ?

I guess there is no option...

