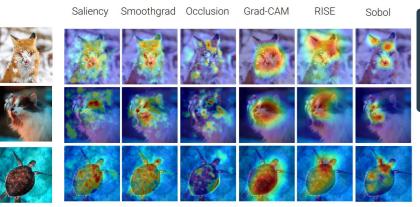


Splique A deep learning Explainability Toolbox

(1) Attribution Methods more than 14 black-box / white-box methods



from xplique.attributions import GradCAM explainer = GradCAM(model) explanations = explainer(x, y)

*Pytorch, Sklearn supported for black-box methods

(3) Feature Visualization

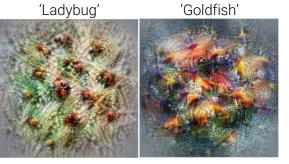
Thomas FEL*, Lucas HERVIER*,

· Neurons · Channels · Directions

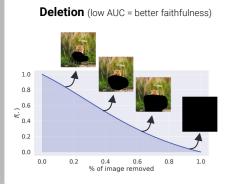


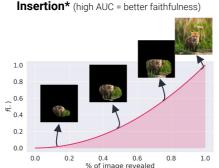
Visualize Neurons, Channels, Vectors in activation space (e.g. CAV) or a mix of them!

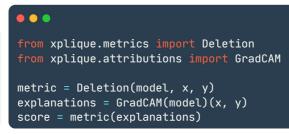




(2) Metrics more than 6 attributions metrics each supporting multiple baselines







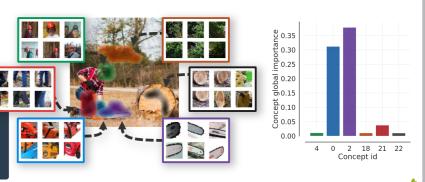
(4) Concept based concept activation vector, CRAFT (new!)

David VIGOUROUX, Antonin POCHE, Justin PLAKOO, Rémi CADENE, Mathieu CHALVIDAL, Julien COLIN, Thibaut

BOISSIN, Louis BETHUNE, Agustin PICARD, Claire NICODEME, Laurent GARDES, Grégory FLANDIN, Thomas SERRE

Easily extract and test CAVs:





















CRAFT: Concept Activation FacTorization for Explainability Look at the Variance! Efficient Black-box Explanations with Sobol-based Sensitivity Analysis Don't Lie to Me: Robust & Efficient explainability with Verified Perturbation Analysis Making Sense of Dependence: Efficient Black-box Explanations Using Dependence Measure