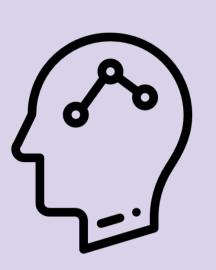


Knowledge graphs and explanations DIREC for improving detection of diseases in images of grains





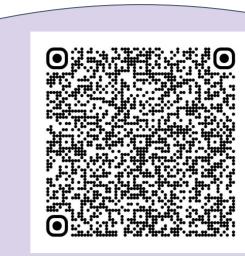
Similarly to human cognition, decision regions are (quite) convex.



CONCEPT-BASED EXPLAINABILITY



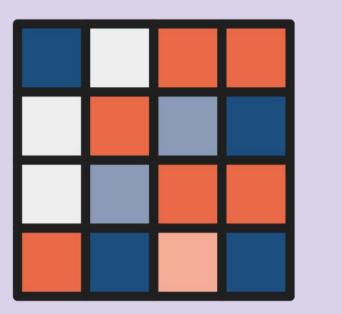
Knowledge graphs can be used for concept definition.



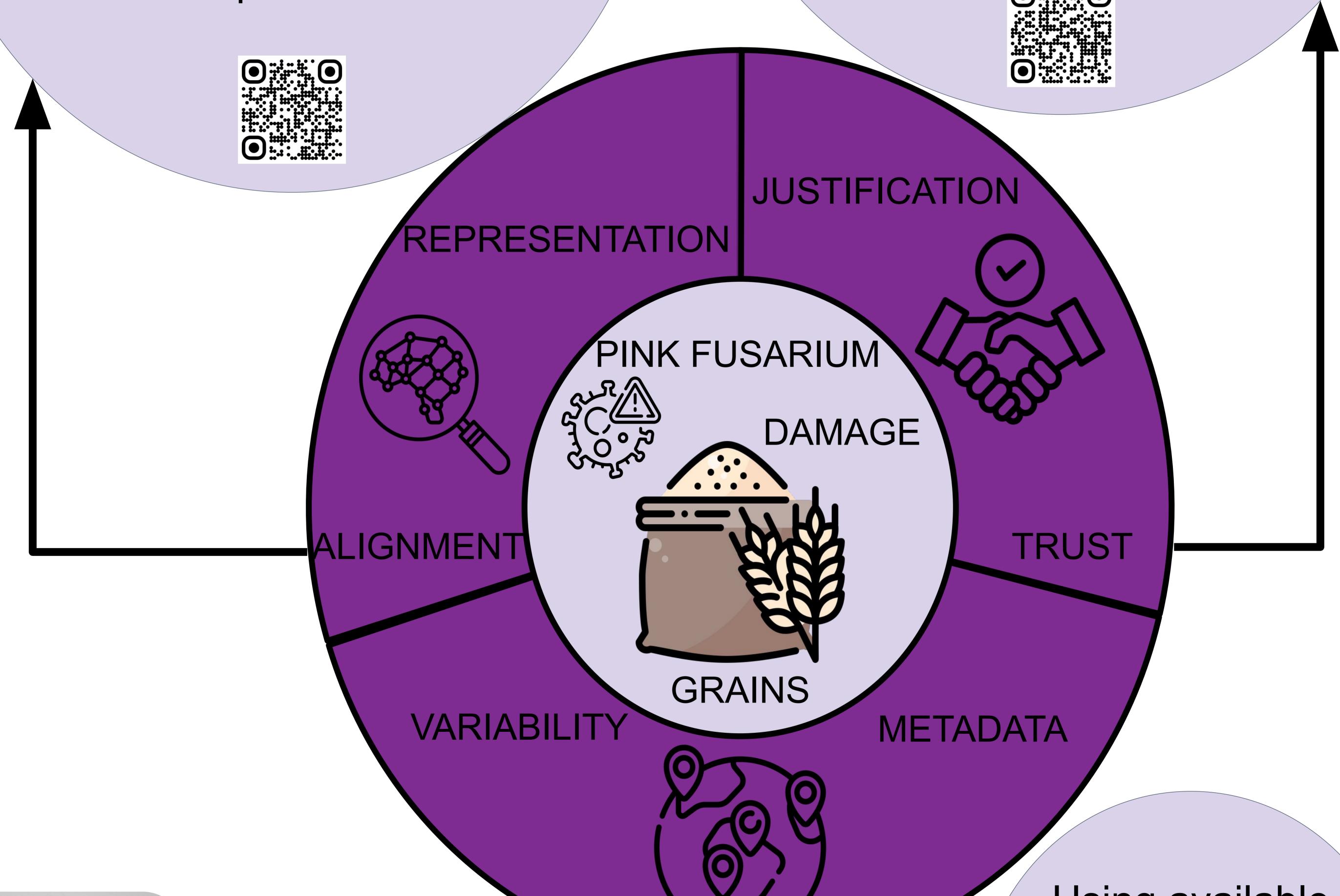
Explanations are (quite) robust to invariant data augmentations but not to equivariant ones.



HEATMAPPING



Heatmapping has many hidden challenges, especially for data with biological variation.





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Using available metadata improves image classification.

