MAKING EVERY LABEL COUNT:
HANDLING SEMANTIC IMPRECISION BY INTEGRATING DOMAIN KNOWLEDGE

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We formally define semantically imprecise data using a class hierarchy. To learn from imprecise data, we adapt a hierarchical classifier [1]. Ordinary one-hot encoded softmax classification cannot solve our task because our classes are not all mutually exclusive. Our method CHILLAX (Class Hierarchies for Imprecise Label Learning and Annotation eXtrapolation) does not have this limitation.