

A Venn diagram illustrating the relationship between a Knowledge Graph (KG) and its predictions. The diagram consists of several nested and overlapping ellipses. The outermost ellipse is blue and labeled "Appr. ideal KG ( $\mathcal{G}_{appr}^i$ )". Inside this blue ellipse is a green ellipse labeled " $\mathcal{R}_H$  predictions ( $\mathcal{G}_{\mathcal{R}_H}$ )". Within the green ellipse is a red ellipse labeled " $\mathcal{R}_{NM}$  predictions ( $\mathcal{G}_{\mathcal{R}_{NM}}$ )". Inside the red ellipse is a black ellipse labeled "KG  $\mathcal{G}$ ". The regions of the ellipses are filled with corresponding colors: the area between the blue and green ellipses is light blue, the area between the green and red ellipses is light red, and the area between the red and black ellipses is light blue. The black ellipse is the innermost and is not filled.

Appr. ideal KG ( $\mathcal{G}_{appr}^i$ )

$\mathcal{R}_{NM}$  predictions  
( $\mathcal{G}_{\mathcal{R}_{NM}}$ )

$\mathcal{R}_H$  predictions  
( $\mathcal{G}_{\mathcal{R}_H}$ )

KG  $\mathcal{G}$