

Supplementary Material: Weakly Supervised Semantic Parsing with Abstract Examples

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1 Programming Language

The programming language we use is described in the following tables.

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Logical Function	Return Type	Argument(s) Type(s)
Exist	Bool	Set (?)
Filter	Set (?)	Set (?), BoolFunc (?)
Count	Int	Set (?)
And, Or	Bool	Bool, Bool
Not	Bool	Bool
All, Any	Bool	Set (?), BoolFunc (?)
AllSame	Bool	Set (?)
Select	Set (Set (?))	Set (?), int
Union	Set (?)	Set (Set (?))
GreaterThan, LessThan, GreaterEqual, LessEqual EqualInt	Bool	Int, Int
Equal	Bool	(?, ?)
QueryColor	Set (Color)	Set (Item)
QueryShape	Set (Shape)	Set (Item)
QuerySize	Set (Size)	Set (Item)
GetAbove, GetBelow, GetTouching	Set (Item)	Set (Item)
IsYellow, IsBlack, IsBlue, IsCircle, IsTriangle, IsSquare, IsBig, IsMedium, IsSmall, IsTop, IsBottom	Bool	Item
IsTouchingWall, IsTouchingCorner	Bool	Item, Side

Constants	Type
ALL.ITEMS	Set (Item)
ALL.BOXES	Set (Set (Item))
Color.Blue, Color.Yellow, Color.Black	Color
Shape.Circle, Shape.Triangle, Shape.Square	Shape
Side.Top, Side.Bottom, Side.Left, Side.Right, Side.Any	Set<Side>