

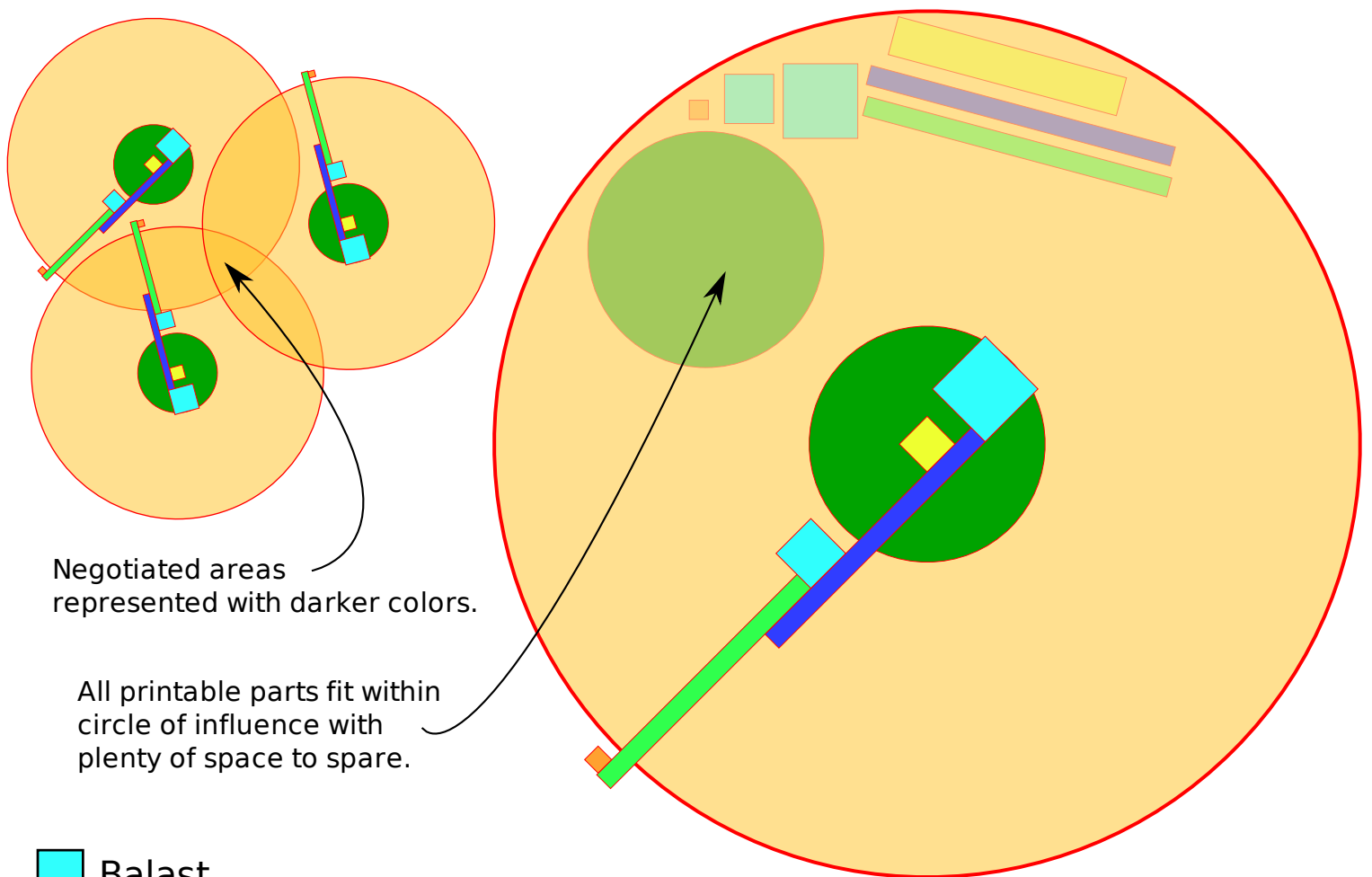
# 3D articulated arm

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The idea here is to make an articulated arm with 3 degrees of motion which can be used for 3D printing with Fuse Deposition Modeling (FDM), similar to a RepRap.

The key benefits over RepRap are a larger active area and an unobstructed area of influence, meaning that other tools can operate within the same area. Two tools could for example cooperate on constructing a single 3D model.

However, due to the assymetric weight distribution of the arm, stronger motors and counterbalasts would be required, which may increase cost.



Negotiated areas represented with darker colors.

All printable parts fit within circle of influence with plenty of space to spare.

-  Balast
-  Outer yardarm, X2 axis
-  Base
-  Base pole / Rotational axis
-  Inner yardarm, X2 axis
-  Circle of influence
-  FDM nozzle

