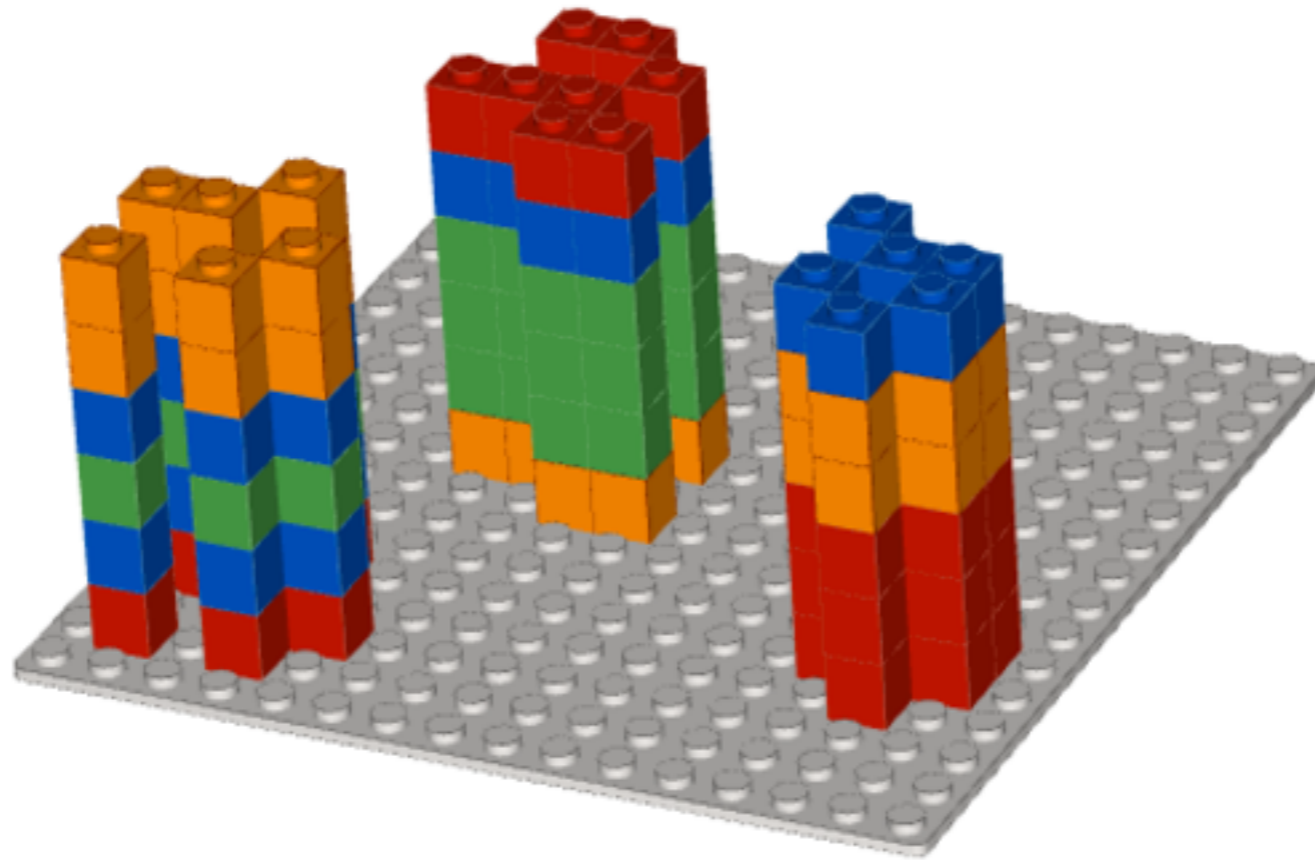
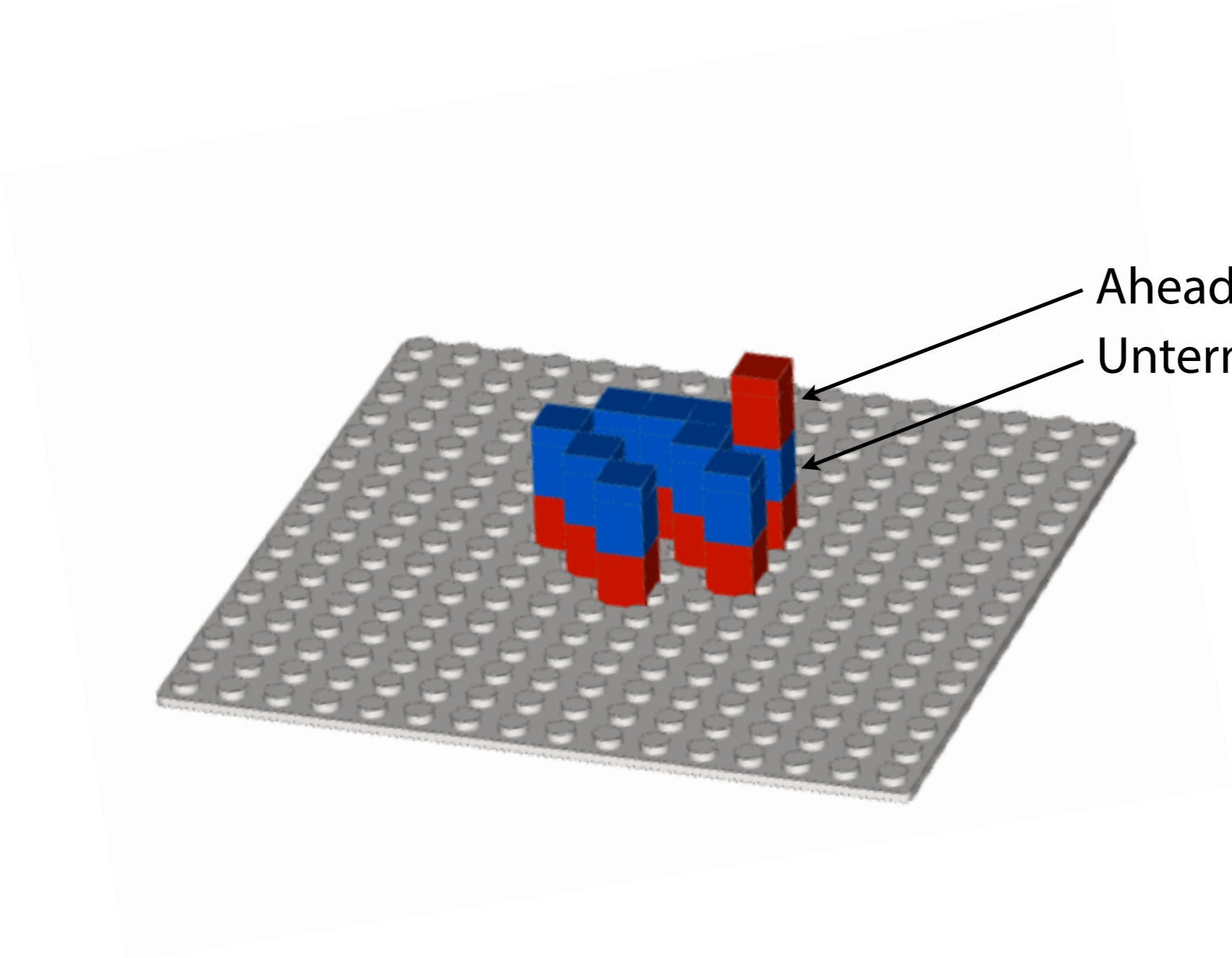


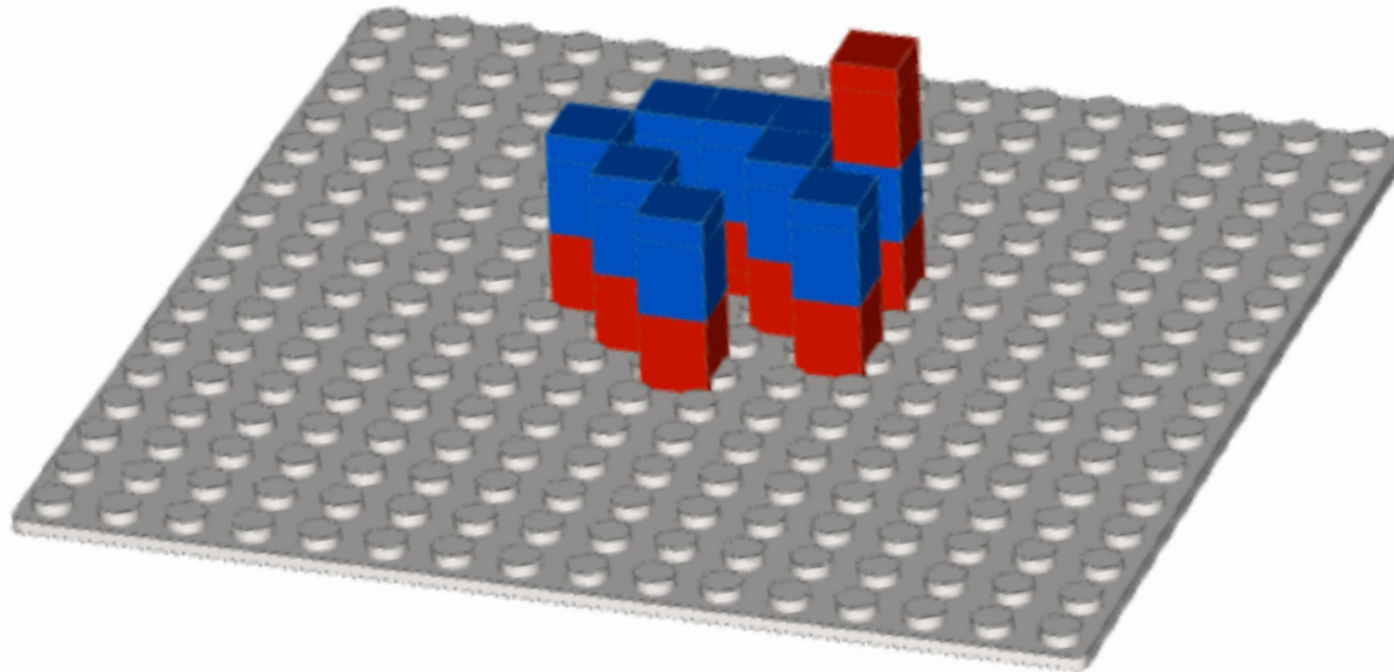
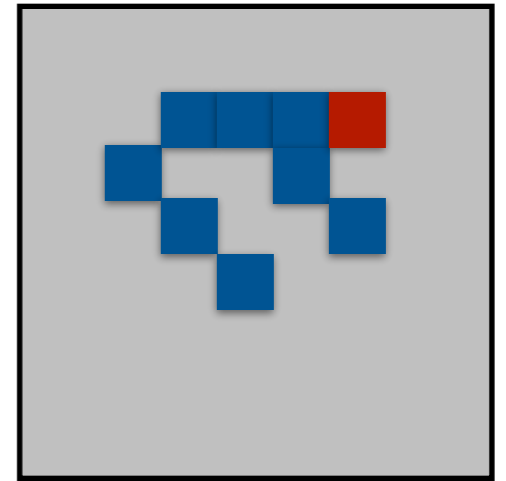
Cluster of clones

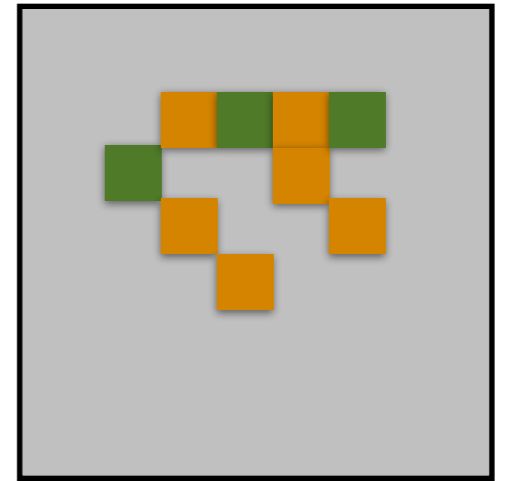
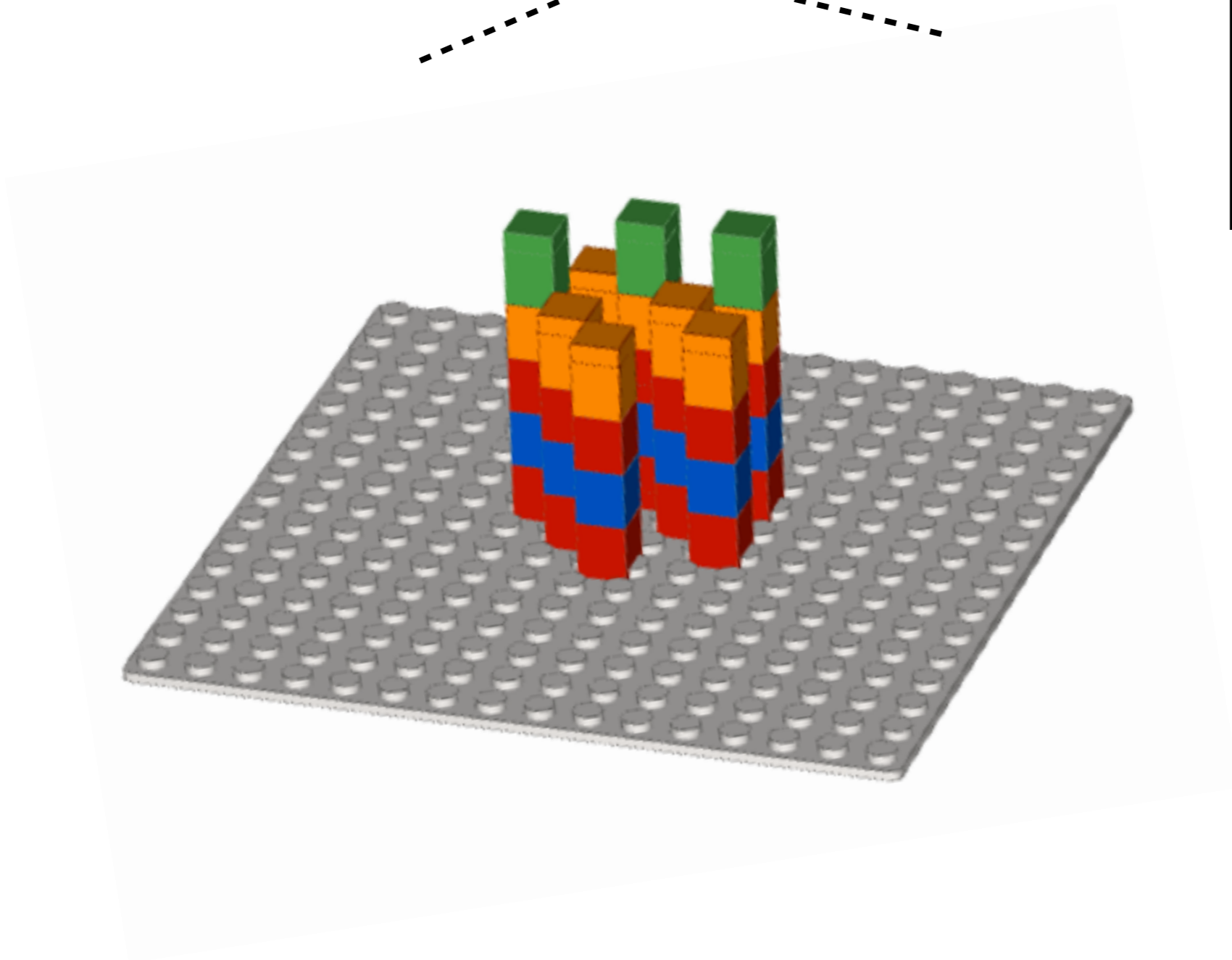




Ahead of schedule

Unterminated





$$Q = -10 \cdot \log_{10} p$$

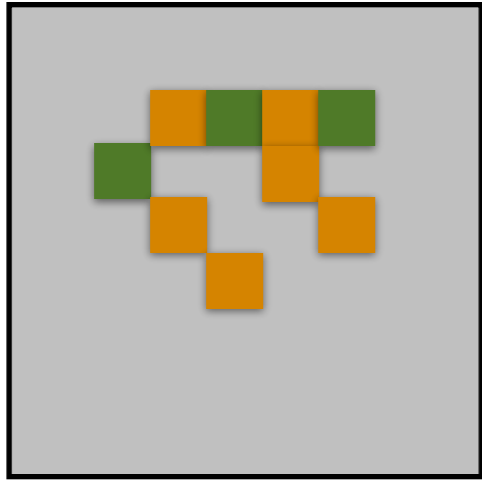
Base quality

Probability that base call is incorrect

$Q = 10 \rightarrow 1$ in 10 chance call is incorrect

$Q = 20 \rightarrow 1$ in 100

$Q = 30 \rightarrow 1$ in 1,000



Call: orange (C)

Estimate p , probability incorrect:
non-orange light / total light

$$p = 3 \text{ green} / 9 \text{ total} = 1/3$$

$$Q = -10 \log_{10} 1/3 = 4.77$$