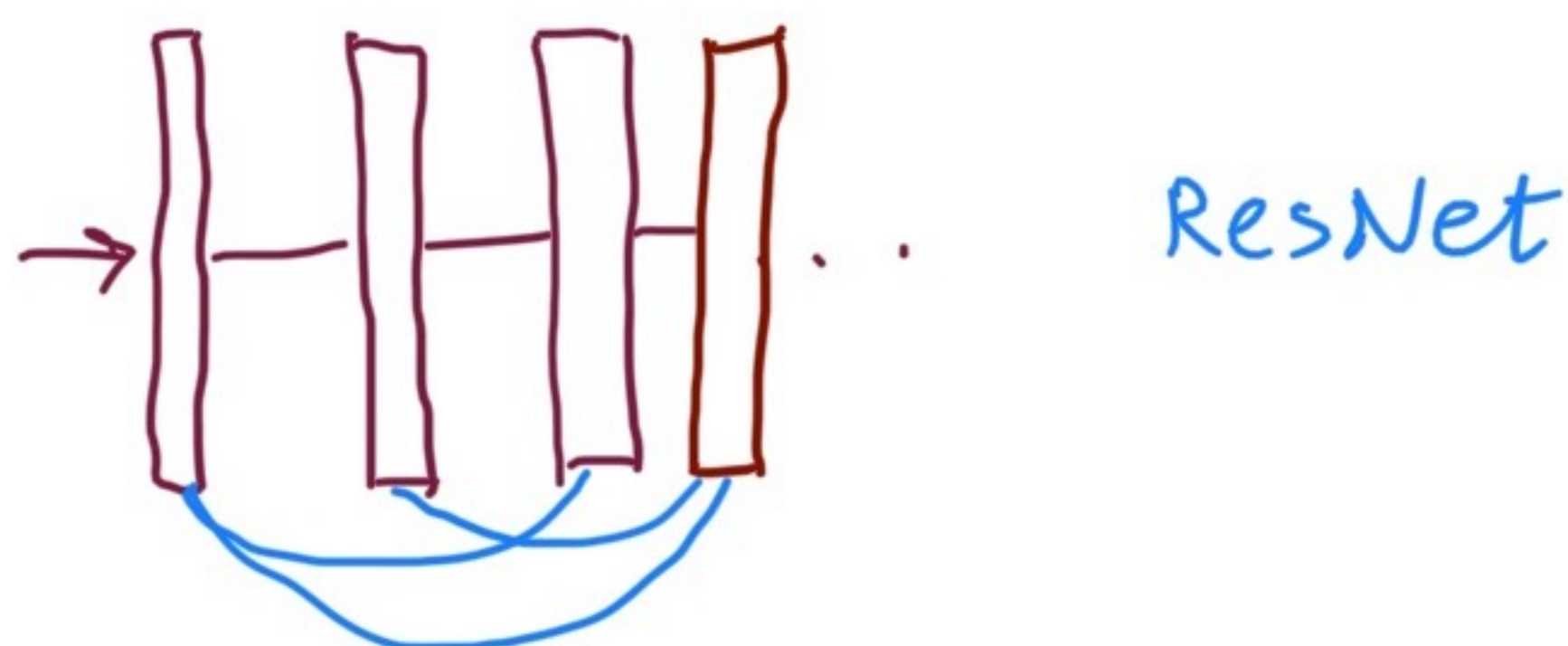
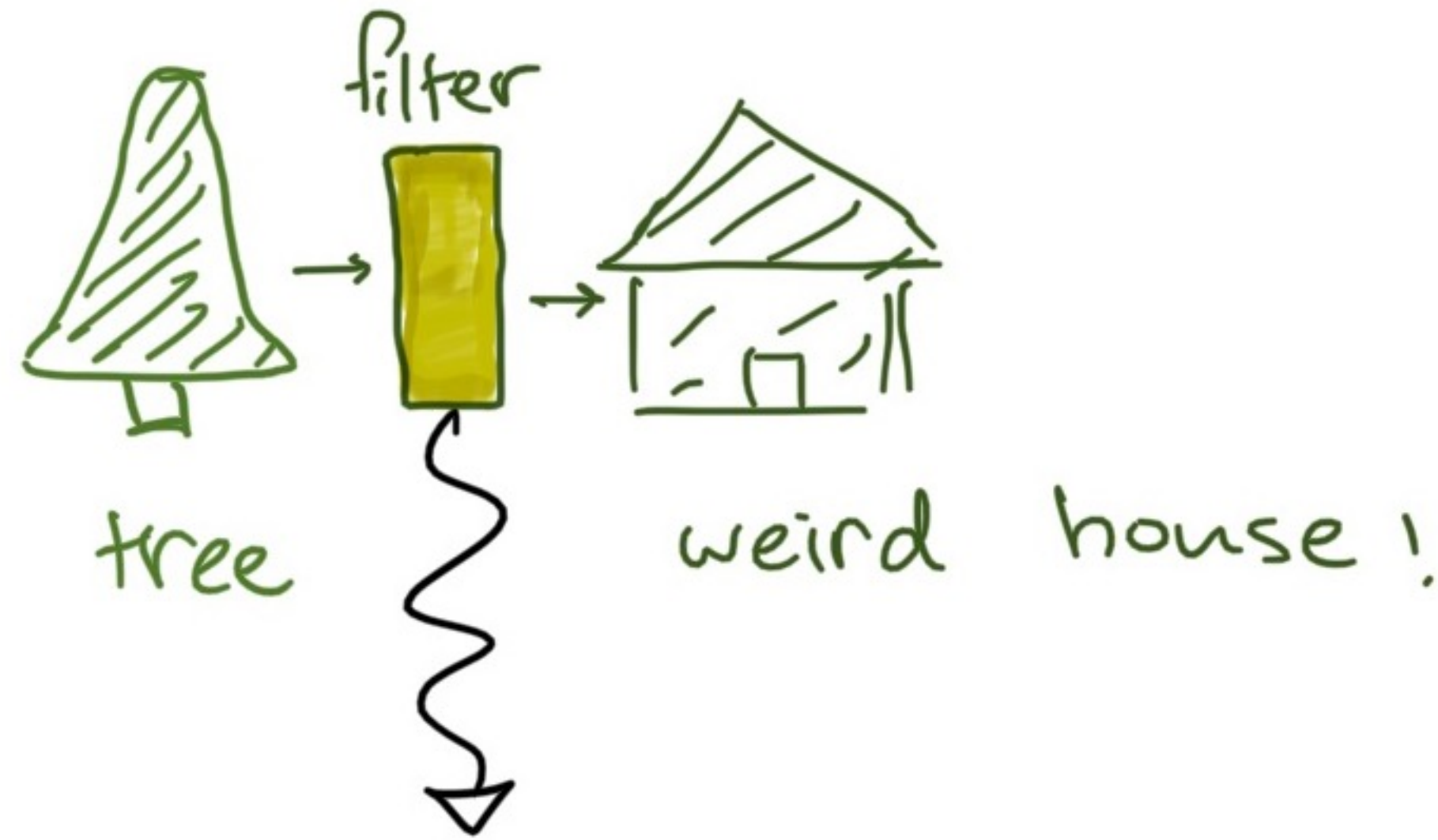


ResNet Architecture

- up to 152 layers
- they observed that adding more layers increases the performance up to a point after which it decreases.
- the problem is the "vanishing gradient" phenomenon.
- Simply put, as the number of layers increases, during the backward pass the loss gets smaller and smaller and lose its effectiveness.
- So, in ResNet, they added shortcuts between layers to avoid that.



Google's Deep Dreams



this filter is the key. It can be
some specific (deeper) filters
that detect houses.