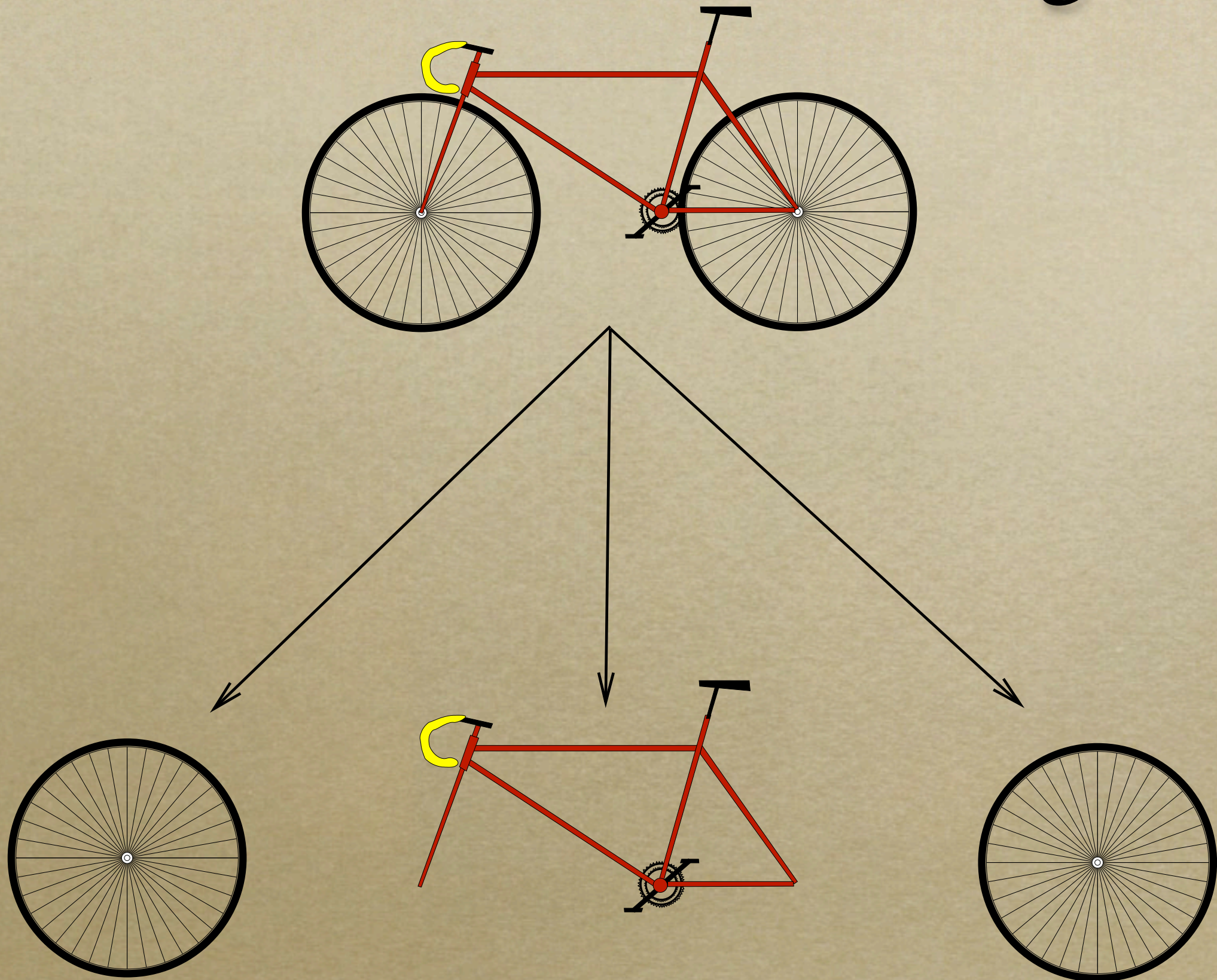


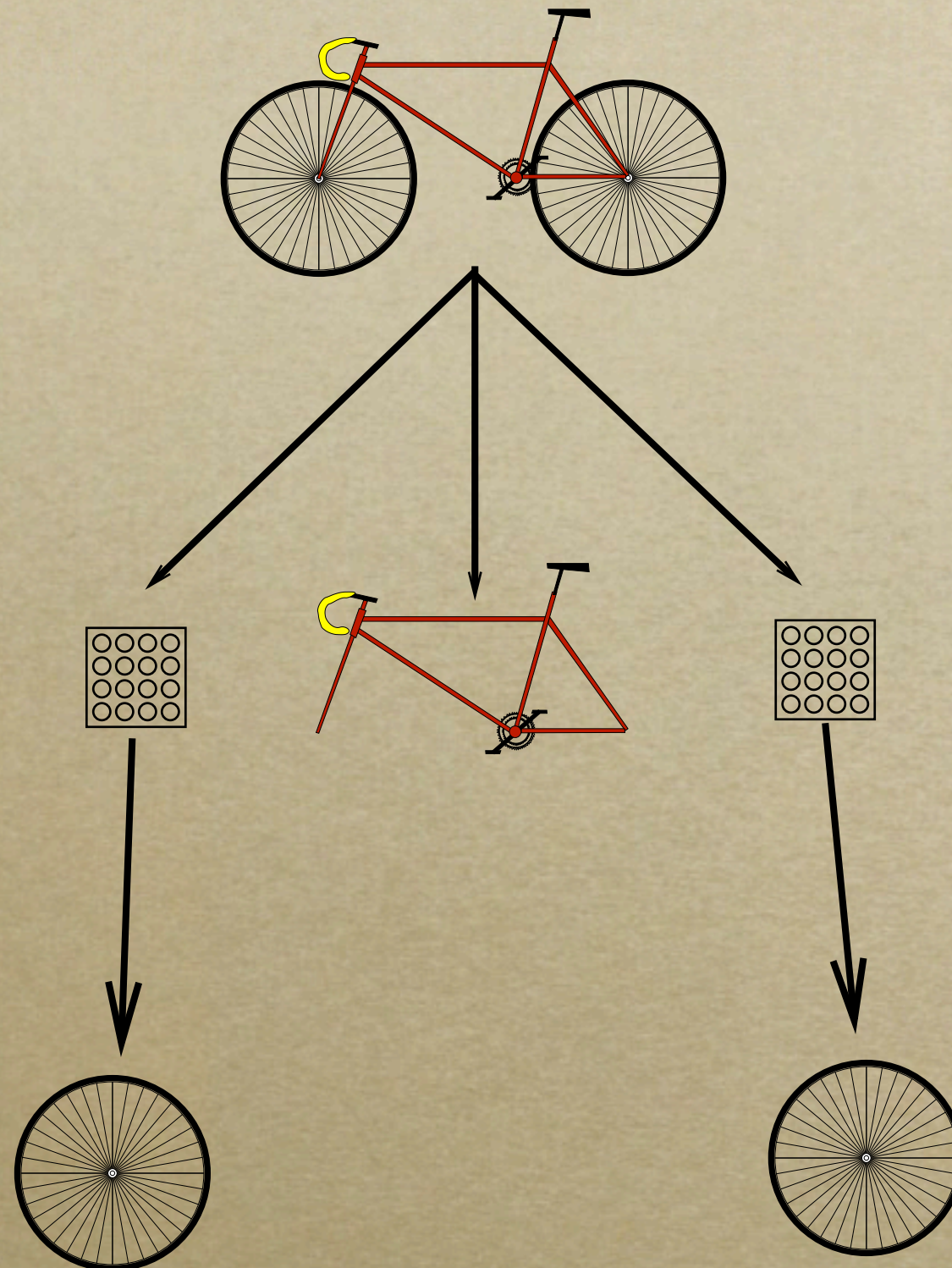
Hierarchical Modelling



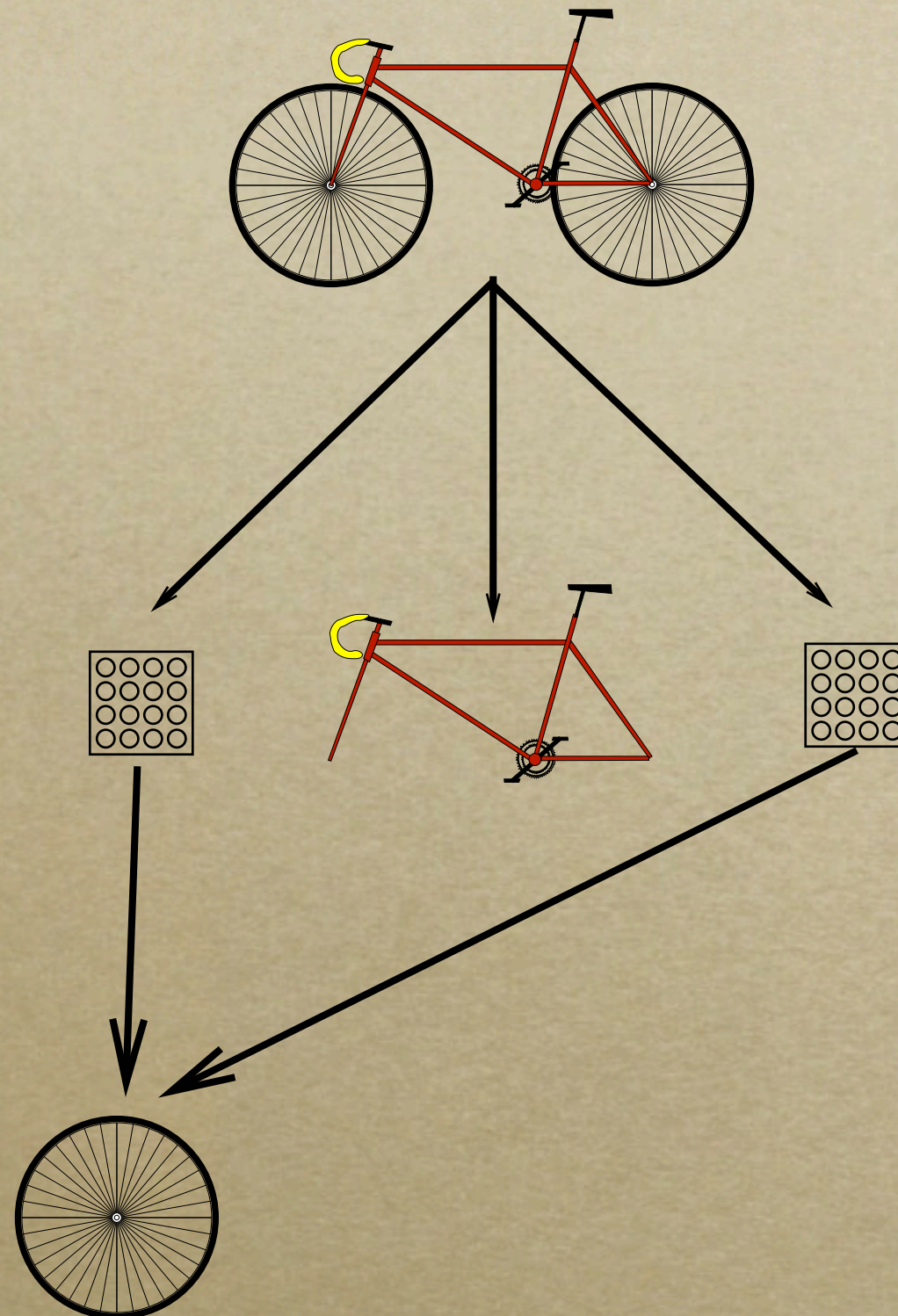
Hierarchical Modelling



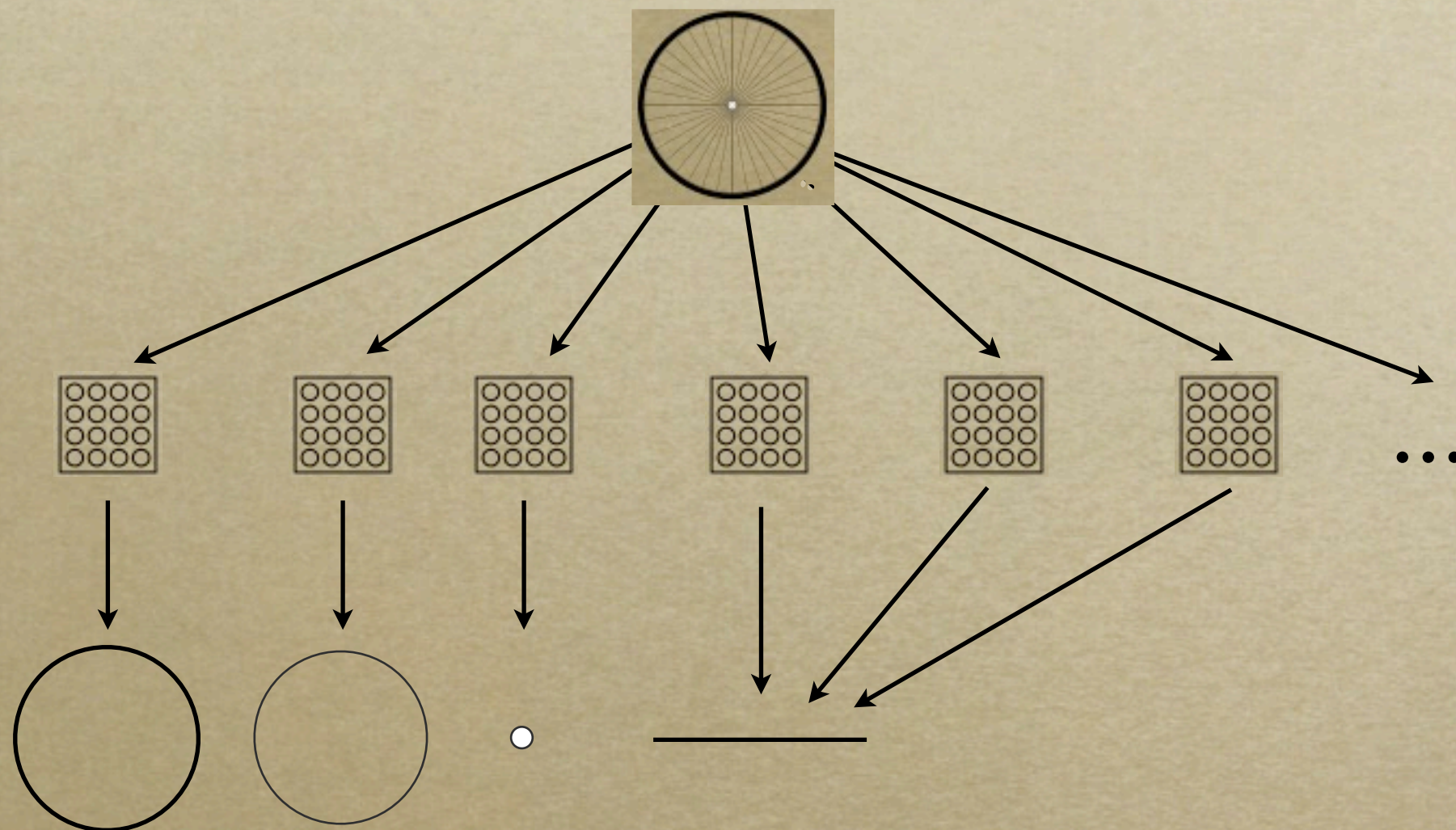
Hierarchical Modelling

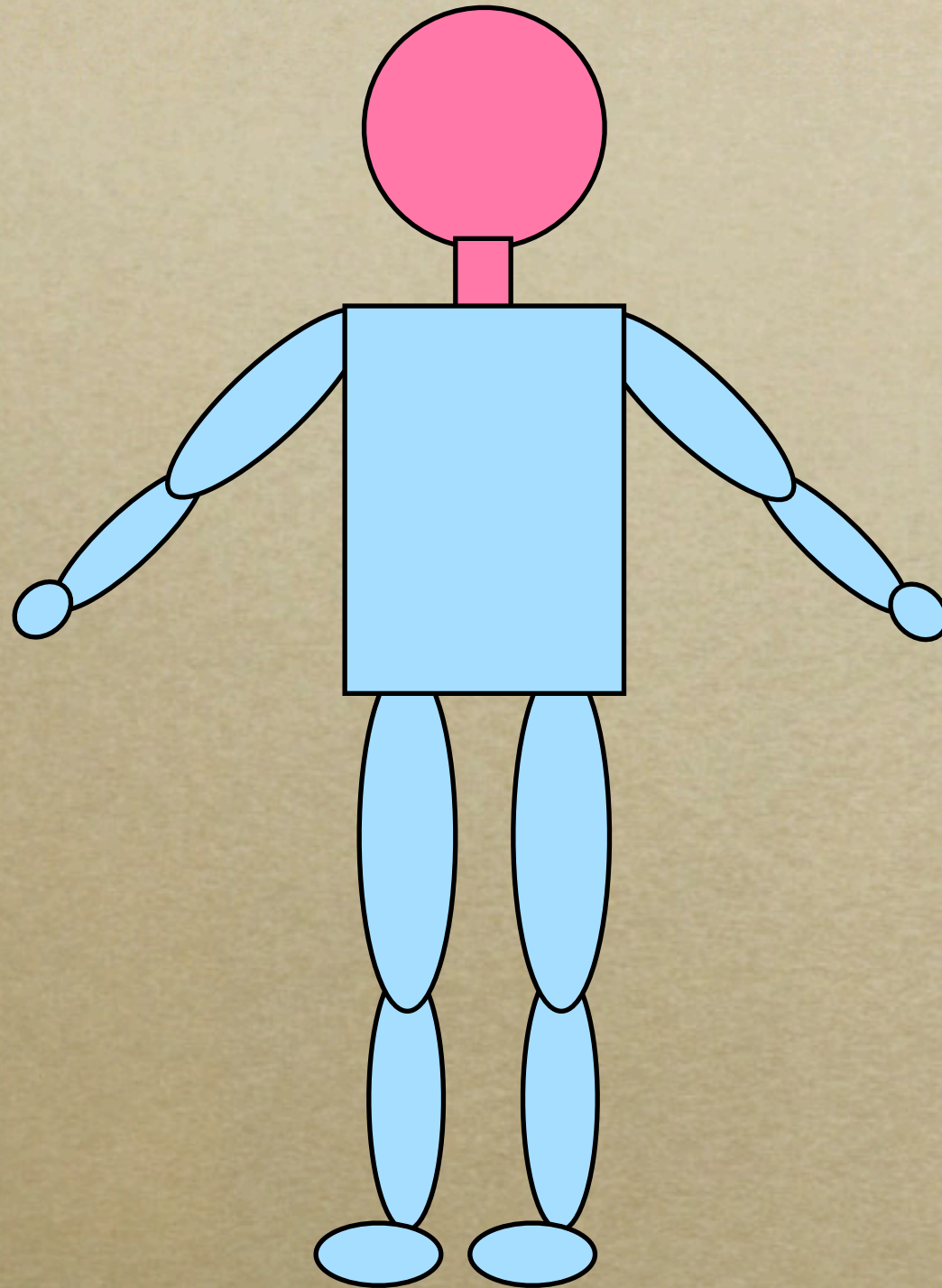


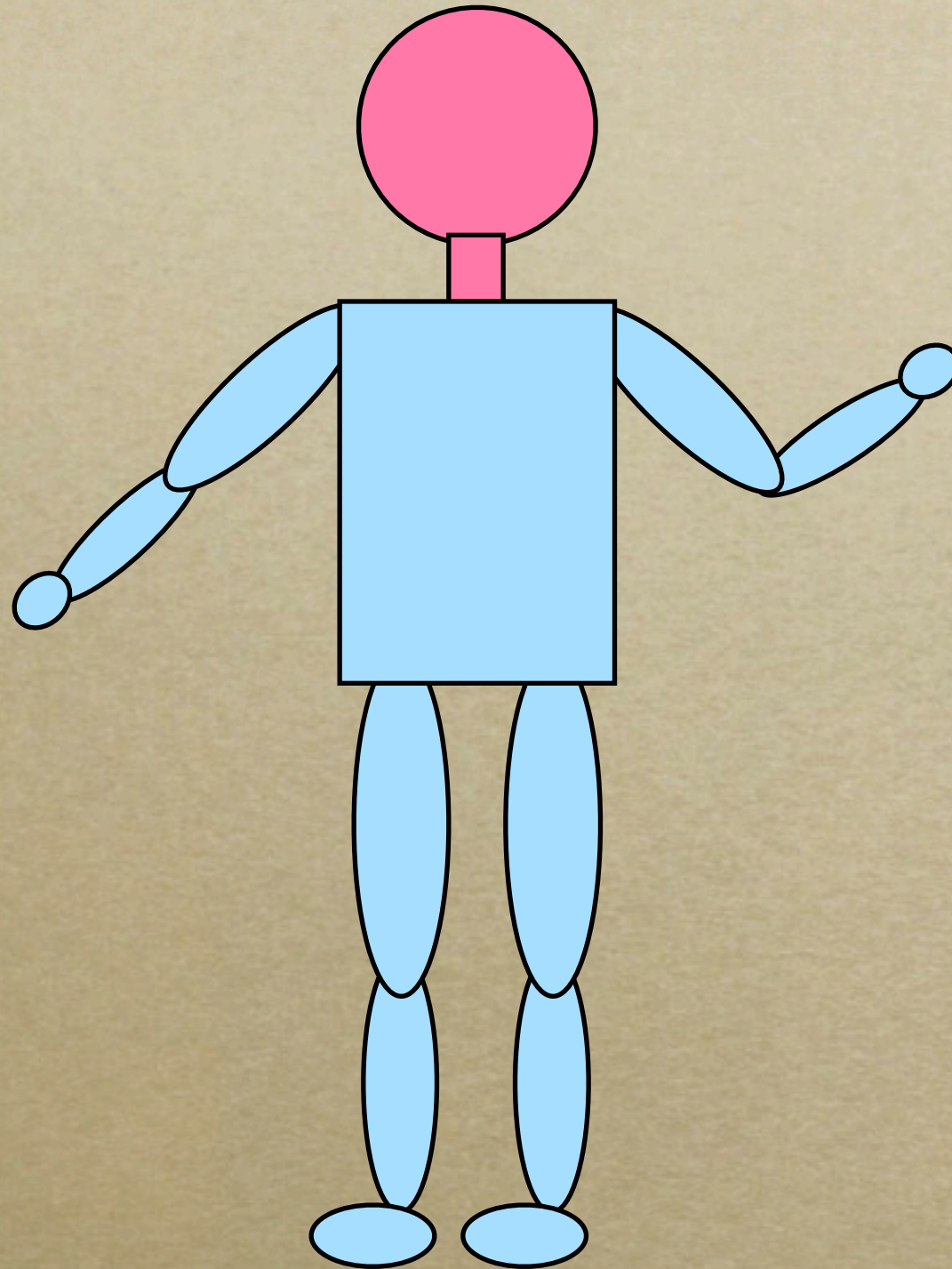
Hierarchical Modelling

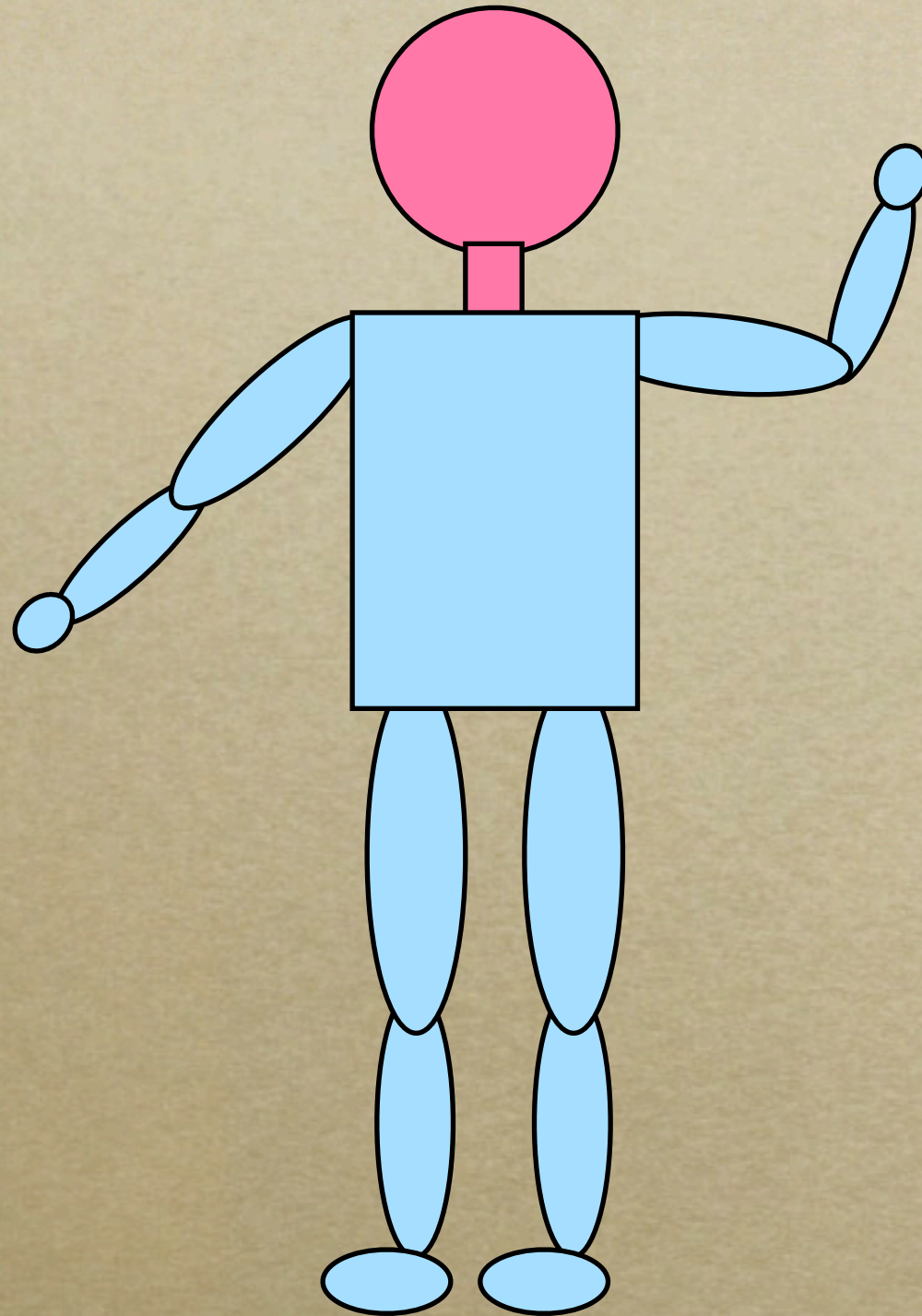


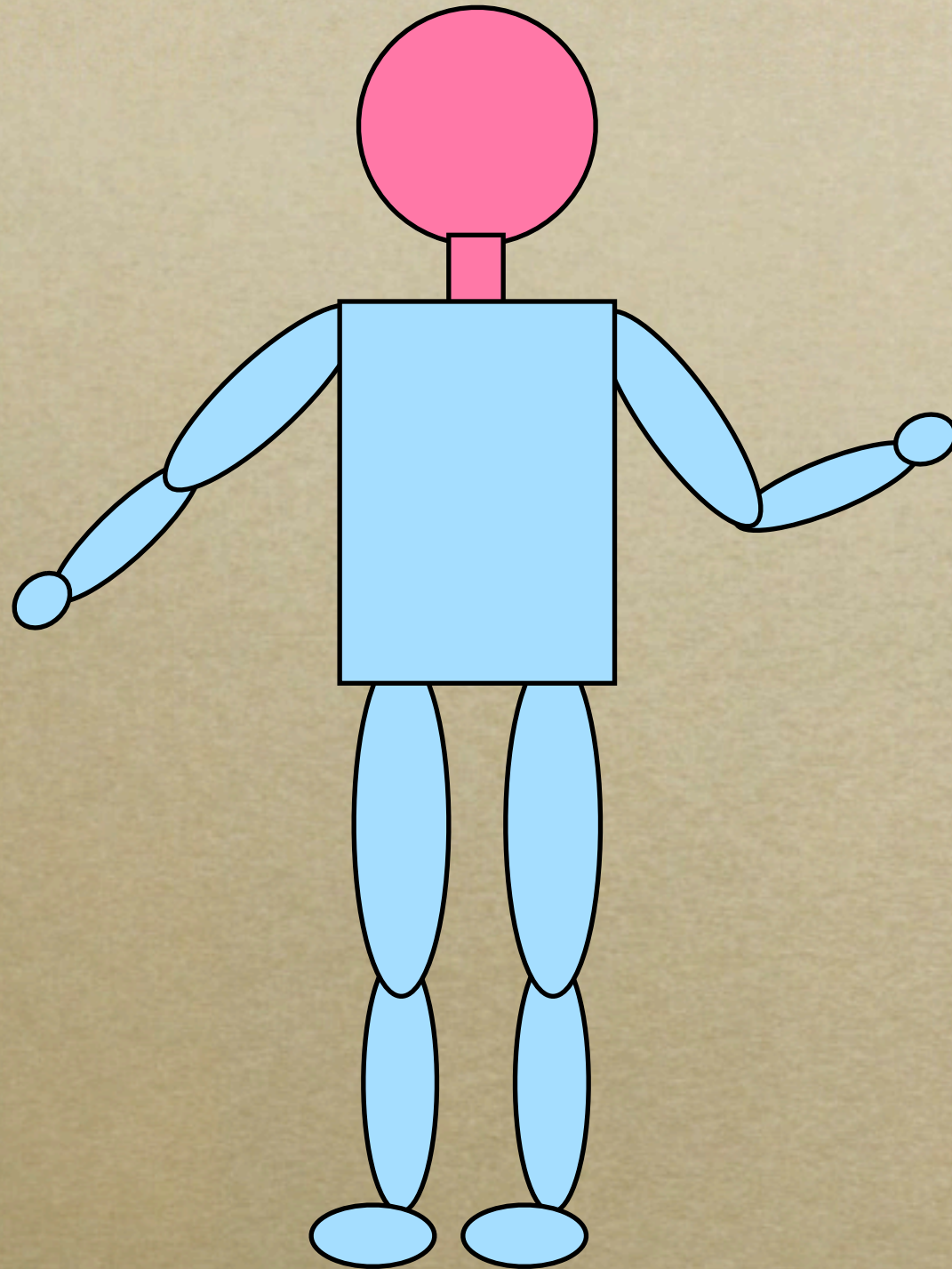
Even the wheel ...



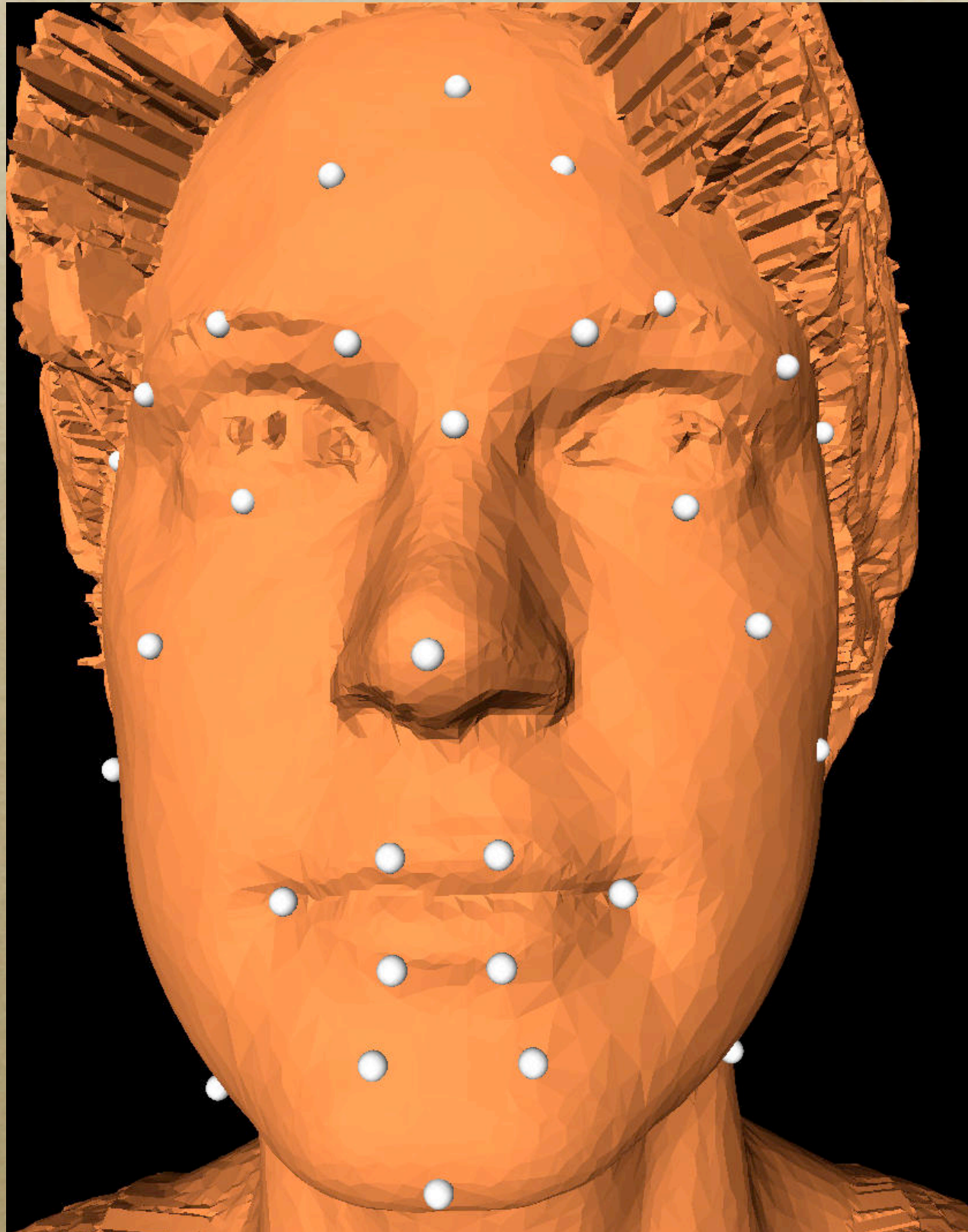








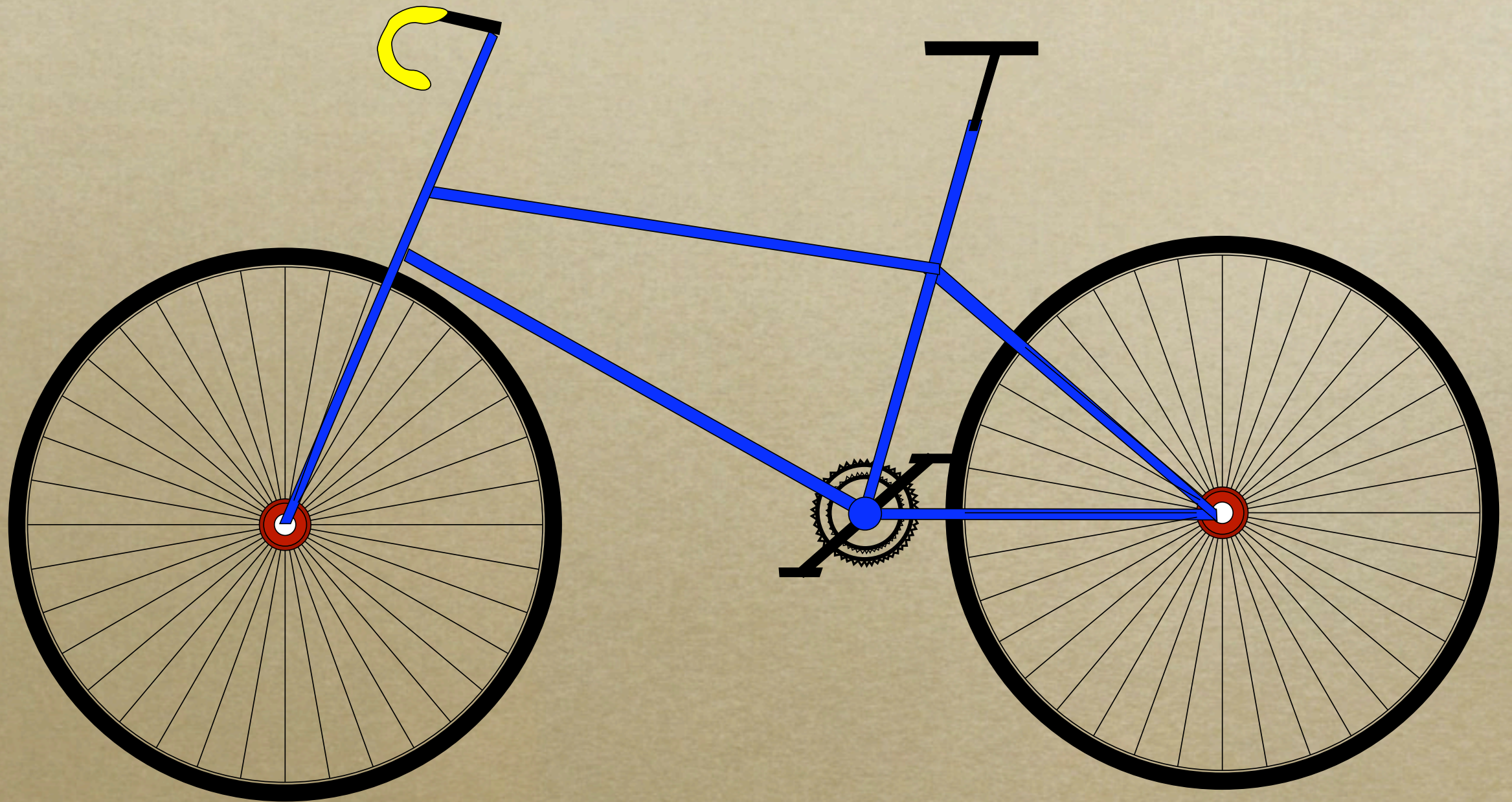
Hierarchical Modelling



Parametric Models

- bikeframe(sex, colour, size)
- wheel(radius, hub width, hub radius, tyre width, material, number spokes, ...)
- axle(wheel1, wheel2, Tyre1Rot, Tire2Rot, roll, yaw)
- Sphere(radius, centre)
- Door(isopen)

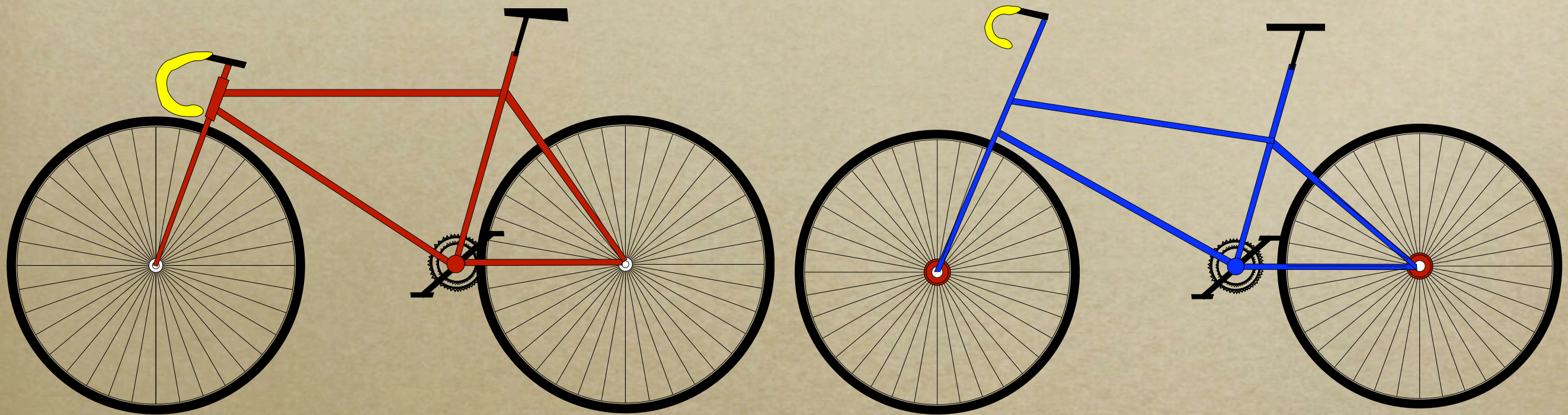
Parametric Modelling



Parametric Modelling



Parametric Modelling



- *What would be some good parameters?*

Parametric Modelling

Pros and Cons

- + *Higher level of control*
- + *Multiple levels of control*
- + *More intuitive space*
- - *Must map parameters to geometry*
- - *Extra level of processing*

Procedural Modelling

- *Similar to parametric. Often used in conjunction.*
- *Geometry generated by a procedure, often with parameters*
- *E.g., generating the spokes of a wheel:*
 - *A procedure generates spokes by rotating in 10 degrees increments*
 - *A parameterised procedure would have n spokes*



