Why scaling?

Generic model
Why scaling?

Generic model
Scaling in OpenSim

Tools → Scale model...
Definition of scale factors

scales model segments as well as mass properties, muscles, etc.
Definition of scale factors

Measurement-based scaling

Generic model

Scaled model

Experimental markers

Model markers

Manual scaling

specified by the user based on some predetermined measure e.g. anthropometric measurements
Definition of scale factors
Definition of scale factors

OpenSim Workshop
Adjust model markers

adjusts the model markers to match the experimental markers at the static pose
Define weights

places model in static pose (by IK)

adjusts model markers
Scaled model
Hints

Scaling can have a big impact on your simulation results

Use joint centers for scaling in participants with movement disorders
Demo of scaling tool