Examples and Tutorials

There are many tutorials and examples to help you learn how to use OpenSim. The examples listed below move from introductory to more advanced:

### Introductory Examples
- Tutorial 1 - Intro to Musculoskeletal Modeling
- Tutorial 2 - Simulation and Analysis of a Tendon Transfer Surgery
- Tutorial 3 - Scaling, Inverse Kinematics, and Inverse Dynamics
- Soccer Kick Example
- Simulation-Based Design to Prevent Ankle Injuries
- Simulation-Based Design to Reduce Metabolic Cost
- Dynamic Walking Challenge: Go the Distance!
- Working with Static Optimization

### Intermediate Examples
- Example - Computed Muscle Control
- The Strength of Simulation: Estimating Leg Muscle Forces in Stance and Swing
- Example - Estimating Joint Reaction Loads
- Example - Model Editing

### Advanced Examples
- Point Kinematics Example
- Pulling Out the Stops: Designing a Muscle for a Tug-of-War Competition
- Sky High: Coordinating Muscles for Optimal Jump Performance
- API Examples
- From the Ground Up: Building a Passive Dynamic Walker Model