





## Model of Walking Gait: Full body movement



### Extended Position



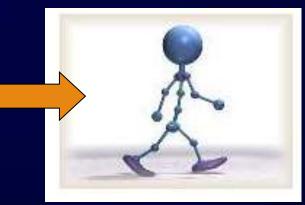
### **Recoiled Position**



#### Passing Position



Falling Position



#### **Extended Position**



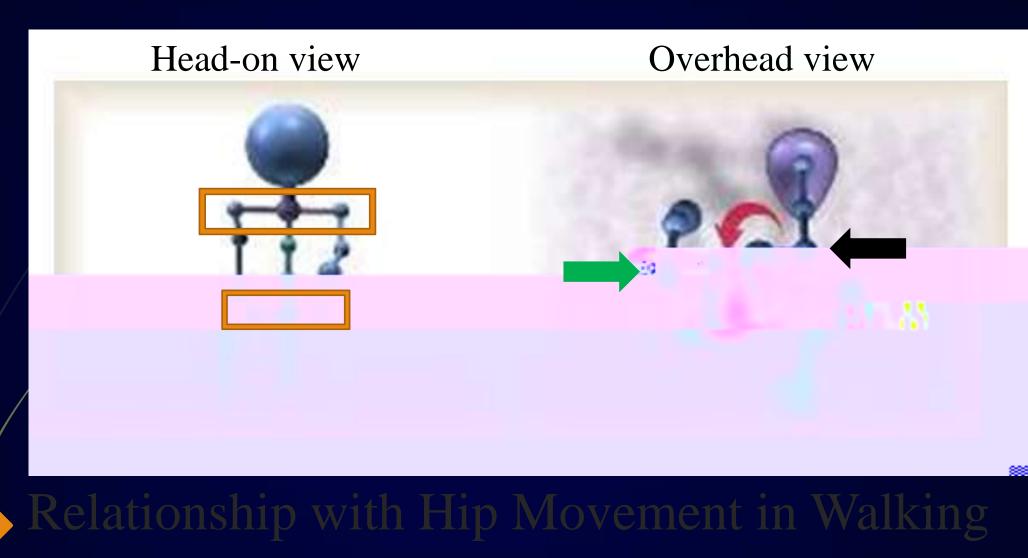


Figure 2: Top view of hip movement showing how shoulder movement relates to hip rotation. As the back leg (black arrow) is back, the opposite shoulder (green arrow) is swinging forward.



## **Experimental Design**



Figure 4: Model of Data Collection





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# Results of Left Knee Side Injury

Table 4: Comparison between arm location and theircorresponding arm frequency in left knee injury.

Arm Location	<b>Frequency</b>
<b>Right Elbow</b>	$5.71 \pm 0.05$
Left Elbow	$5.52 \pm 0.03$
<b>Right Hand</b>	$5.83~\pm~0.02$
Left Hand	$5.50~\pm~0.02$













