













Or in Unity	
Add	
Component > Physics > Rigidbody	
with script, e.g.,	
<pre>public class example : MonoBehaviour {      void FixedUpdate() {         rigidbody.AddForce(Vector3.up * 10);     }</pre>	
}	
<u> </u>	8

## **Steering Methods** class Body def update (dt) { force = truncate(..., // combine forces from steering behaviors maxForce); ...} def seek (target) { ... return force; } def flee (target) { ... return force; } def arrive (target) { ... return force; } def pursue (body) { ... return force; } def evade (body) { ... return force; } def hide (body) { ... return force; } def interpose (body1, body2) { ... return force: } def wander () { ... return force; } def avoidObstacles () { ... return force; } . . . WPI IMGD 4000 (B 12) 9



































	Individual Ste	ering "Behaviors	<b>5</b> "	
ſ	compute the forc	es:		
	seek	flee		
	arrive	pursue	Steering	
	interpose	evade	Oteering	
	follow path	wander		
	hide	avoid obstacles & walls		
and combinations thereof				
	MPI IMGD 4000 (B 12)		27	





Wander	target
	wander radus
<pre>// initial random point on circle wanderTarget =;</pre>	
<b>def</b> wander () {	wander distance
<pre>// displace target random amount wanderTarget += [ random(0, JITTER), random()</pre>	O, JITTER) ];
<pre>// project target back onto circle wanderTarget.normalize(); wanderTarget *= RADIUS;</pre>	
<pre>// move circle wander distance in front of a wanderTarget += bodyToWorldCoord([DISTANCE,</pre>	gent 0]);
<pre>// steer towards target   return wanderTarget - position; }</pre>	
	DEMO
<u>∭YPI</u> IMGD 4000 (B 12)	30

































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() WPI IMGD 4000 (B 12)

























