Box2D v2.2.1 User Manual

Ch	napter 1 Introduction
1.1	About
1.	Prerequisites
	Caution
1.	About this Manual
1.4	Feedback and Reporting Bugs

1. Core Concepts



Caution

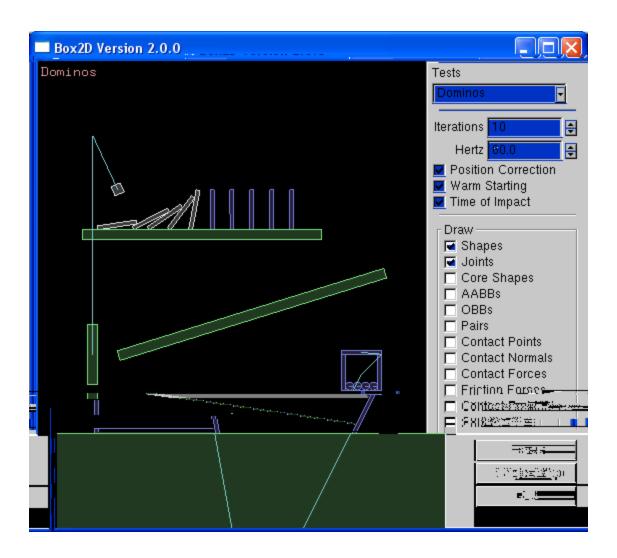
.9 User D			

Chapter Hello Box D .1 Creating a World . Creating a Ground Box

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Creating a Dynamic Body		
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4 Simulating the)World o	f Box D		

. Cleanup		
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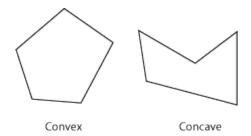


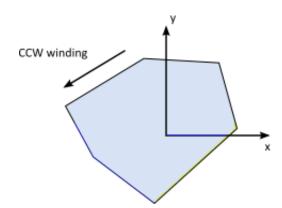
Chapter	Common	
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.1 About		
. Settings		
Types		
Constants		
Allocation wrap	nners	
Throcation wrap		
Version		
. Memory I	Management	

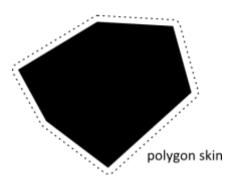


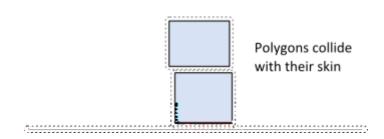
Chapter 4 Collision Module

4.1 About

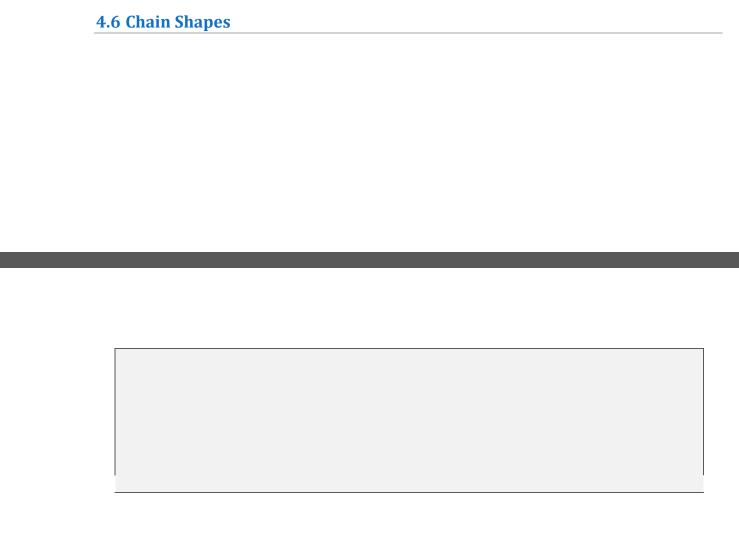




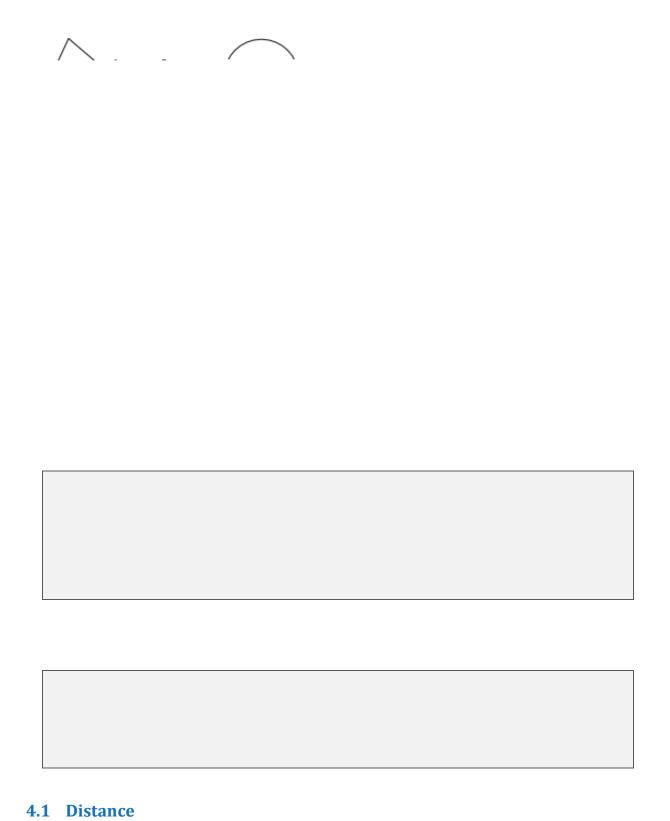


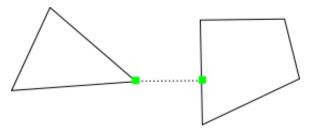


4. Edge Shapes



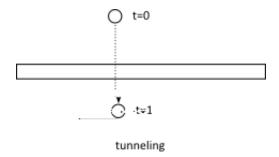
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4.9 Bilateral Funct	ions		
4.10 Overlap			
4.11 Contact Manif	olds		

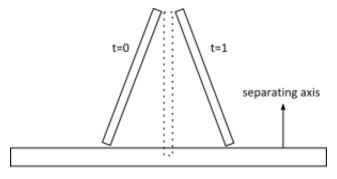




distance and closest points

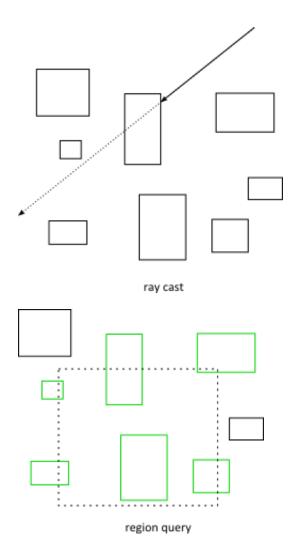
4.1 Time of Impact





missed collision

4.14 Dynamic Tree



4.1 Broad phase

Chapter Dynamics Module

.1 Overview

Chapter 6 Fixtures				
6.1 About				
6. Fixture Creation				

Density

Friction			

Restitution

6. Sensors

Chapter 7 Bodies

7.1 About

Body Ty	pe
Position	and Angle
	Caution

Damping

Activation		
User Data		
User Data		
User Data		

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7.	Boo	dy Factory		
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		Caution		

7.4 Using a Body

Mass Data	

State Information

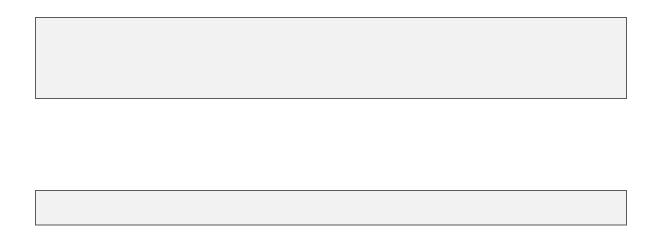
Po	osition and Velocity

Cha	pter	8	oints
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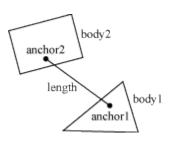
8.1 About

8. The Joint Definition

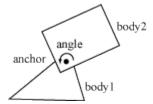
8. Joint Factory



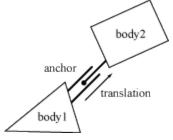
8. Distance Joint



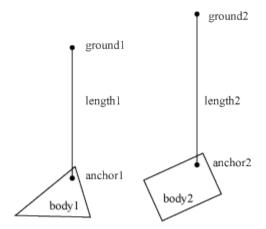
8.6 Revolute Joint



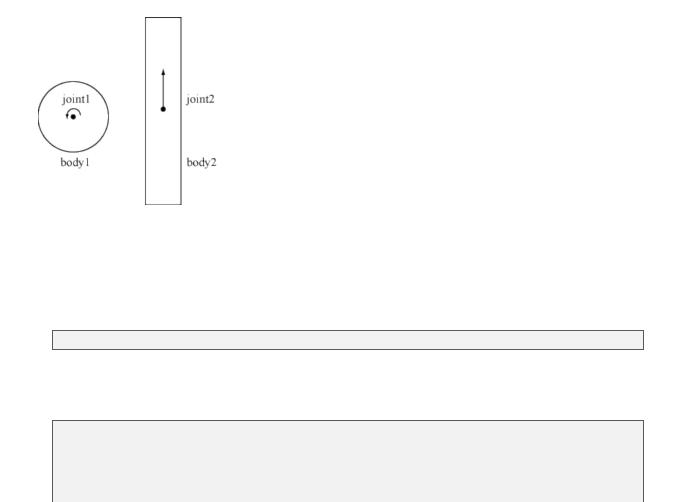
8.7 Prismatic Joint	



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B Pulley Joint			



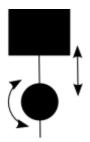
8.9 Gear Joint



Caution		

8.10 Mouse Joint

8.11 Wheel Joint



Wheel Joint

8.1 Weld Joint

8.1 Rope Joint

8.14 Friction Joint

Chapter 9 Contacts

9.1 About contact point contact normal contact separation contact manifold normal impulse

tangent impulse	
contact ids	
9. Contact Class	
9. Contact class	

Caution		
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Post Solve Event

. Contact Filtering			

Chapter 10 World Class

Ab	out
Cro	eating and Destroying a World
Us	ing a World
Sir	nulation

Exploring the World		

Ray Casts



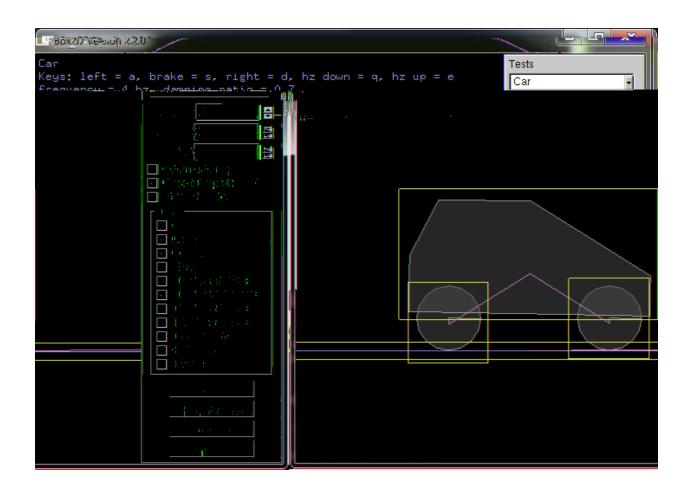
	Caution	
Forces a	and Impulses	
Coordir	nate Transformations	
coorun		

Lists

Chapter 11 Loose Ends

11.1 Implicit Destruction

Caution			



Chapter 14 References