## UPBGE Logic Bricks Editor



#### Co-funded by the European Union

#### **Co-runged by** the European Union



2024-1-PL01- KA220-VET-000243150





## PRZEDSTAWIĘ JEDEN ZE SPOSOBÓW TWORZENIA SCEN Z UŻYCIEM

















### POBIERZ ODPOWIEDNIĄ WERSJĘ PROGRAMU



Stable Release Version 0.3

released 4 December 2021

Windows	Linux	Mac OS	Experimental	
For V	Vindo	ows 8.1,	10 and 11	
D	ownload	UPBGE 0.3	0.0 (64 bits)	
For V	Vindo	ws 7		
	ownload	UPBGE 0.3	0.0 (64 bits)	

• 7z extension is opened with 7zip or similar application







### UPBGE NIE MUSI BYĆ INSTALOWANY

Na	me	Date modifie	pe	Size
	3.0	12	older	
П	blender.crt		der	
	license		Ager	
4	avcodec-58.dll		Application exten	21,461 KB
4	avdevice-58.dll	- 11	Application exten	93 KB
4	avformat-58.dll	0:45 PM	Application exten	3,370 KB
4	avutil-56.dll	021 6:45 PM	Application exten	738 KB
ы	blenderexe	11 8:24 PM	Application	194,949 KB
6	blender_debug_gpu.cmd	8/ 5/ Luc. 12:22 AM	Windows Comma	1 KB
6	blender_debug_gpu_glitchworkaround.c	1/20/2021 11:42 PM	Windows Comma	1 KB
6,	blender_debug_log.cmd	1/20/2021 11:42 PM	Windows Comma	1 KB
65	blender_factory_startup.cmd	1/20/2021 11:42 PM	Windows Comma	1 KB
6	blender_oculus.cmd	1/20/2021 11:42 PM	Windows Comma	1 KB
ы	blender-launcher.exe	12/3/2021 8:23 PM	Application	1,000 KB
U	blenderplayer.exe	12/3/2021 8:24 PM	Application	194,891 KB
9	BlendThumb.dll	12/3/2021 8:23 PM	Application exten	414 KB
	copyright.txt	12/3/2021 8:47 PM	Text Document	5 KB
Ø,	libfftw3-3.dll	5/25/2020 6:32 AM	Application exten	2,213 KB
9	libgmp-10.dll	10/21/2020 6:24 AM	Application exten	2,790 KB
9	libgmpxx.dll	10/21/2020 6:24 AM	Application exten	25 KB
6	libsndfile-1.dll	11/13/2019 10:18 PM	Application exten	1,765 KB
8	oculus.json	1/20/2021 11:42 PM	JSON File	1 KB
4	OpenAL32.dll	5/25/2020 6:32 AM	Application exten	1,293 KB
9	openvdb.dll	3/15/2021 7:17 PM	Application exten	2,498 KB
4	python3.dll	10/26/2021 6:45 AM	Application exten	51 KB
6	python39.dll	10/26/2021 6:45 AM	Application exten	5,018 KB
9	SDL2.dll	5/25/2020 6:32 AM	Application exten	1,193 KB
6	swresample-3.dll	9/24/2021 6:45 PM	Application exten	125 KB
6	swscale-5.dll	9/24/2021 6:45 PM	Application exten	560 KB
4	tbb.dll	6/6/2021 9:05 PM	Application exten	161 KB
9	tbbmalloc.dll	6/6/2021 9:05 PM	Application exten	53 KB
0	tbbmalloc_proxy.dll	6/6/2021 9:05 PM	Application exten	26 KB
0	ucrtbase.dll	12/2/2020 4:31 AM	Application exten	1,012 KB









### KLIKNIJ NA IKONKĘ W DOLNYM LEWYM ROGU







### ZAZNACZ LOGIC BRICKS EDITOR

<b>S</b> ~	Playback ~ Keying	✓ View	Marker					• •
Gene	ral		Animation		Scripting		Data	
<b>#</b>	3D Viewport	Shift F5	ope Sheet	Shift F12	Text Edit	tor Shift F11		Shift F9
	mage Editor	Shift F10	🕜 Timeline	Shift F12	🚠 Logic Bri	icks Editor	🖶 Properties	Shift F7
	UV Editor	Shift F10	🏒 Graph Editor	Shift F6	Pyt -		File Browser	Shift F1
	Compositor	Shift F3	<sup>4</sup> 2∎ Drivers	Shift F6	<b>(i)</b>	gic Bricks Editor too	ls. Asset Browser	Shift F1
<b>~</b> ]	Texture Node Editor	Shift F3	리코 Nonlinear Anir	mation	4		Spreadsheet	
<b>a</b> ) (	Geometry Node Editor	Shift F3					References	
0	Shader Editor	Shift F3						
0 <u>***</u>	video Sequencer	Shift F8						
-¢- !	Movie Clip Editor	Shift F2						







### ZOBACZYSZ OKNO Z TRZEMA SEKCJAMI

de ✓ View	Add															
Sensors	🗸 🗹 Sel	🛃 Act	🗹 Link	🛃 State		Controllers	🗸 🗹 Sel	🗹 Act	🛃 Link		Actuators	v 🔽 Sel	🛃 Act	🛃 Link	🛃 State	
	Cube		Add Sensor	Y		•	Cube	Add Co	ntroller	*		Cube		Add Actuato	r	•
					~											





# **SENSORS**

👍 🗸 View 🖇	Add				_								
Sensors	🗸 🗹 Sel	🛃 Act	🛃 Link	🛃 State	Controller	rs 🛛 🗸 🗹 Sel	I 🛃 Ad	t 🗾 Link	Actuators	🗸 🗹 Sel	🛃 Act	🛃 Link	🛃 State
	Cube		Add Sensor		•	Cube		Add Controller		Cube		Add Actuat	or 🗸







# CONTROLLERS







# ACTUATORS









## ZAZNACZ CUBE









## DLA SENSORS WYBIERZ KEYBOARD









## KLIKNIJ MYSZKĄ WPRESSAKEY

and the second second											
View Add											
Sensors 🗸 🗹 Sel 🛛 🗹 Act	🗹 Link 🛛 🗹 State	Controllers	🗸 🗹 Sel	🛃 Act	🛃 Link		Actuators	🗸 🗹 Sel	🛃 Act	🛃 Link	🛃 State
Cube	Add Sensor 🗸	•	Cube	Add Co	ontroller	~		Cube		Add Actuate	or 🗸
<ul> <li>Keyboard V Keyboard</li> <li>Skip 0 Level Tap</li> <li>Key: Press a key</li> <li>First Modifier:</li> <li>Second Modifier:</li> <li>Log Toggle: •</li> <li>Target: •</li> </ul>	All Keys										









## NASTĘPNIE NACIŚNIJ STRZAŁKĘ W LEWO Z KLAKWIATURY

das → View Add												
Sensors 🗸 🗹 Sel	🗹 Act 🛛 🗹 Link	🛃 State	Controllers	🗸 🗹 Sel	🗹 Act	🛃 Link		Actuators	🗸 🗹 Sel	🗹 Act	🛃 Link	🛃 State
Cube	Add Senso	or 🗸	•	Cube	Add Co	ontroller	~		Cube		Add Actuator	r 🗸
<ul> <li>✓ Keyboard ✓ Keyb</li> <li>▲ ✓ Skip 0</li> </ul>	ooard 🖍 🔺 🔻	ਤ × ਿ vert										
Key:	eft Arrow All K	eys										
First Modifier:												
Log Toggle: •												
Target: •												





## DLA CONTROLLERS WYBIERZ AND

diase → View Add						
Sensors 🗸 🗹 Sel 🔽 Act 🗹 Link 🗹 Stat	Controllers	🗸 🗹 Sel 🛛 🗹 Act	🗹 Link	Actuators 🛛 🗸 🗹 Sel	🗹 Act 🛛 🗹	Link 🛛 State
Cube Add Sensor		Cube Add	Controller 🗸	Cube	Add	Actuator 🗸
<ul> <li>✓ Keyboard ∨ Keyboard S ▲ ▼ </li> <li>✓ Skip 0 Level Tap Invert</li> </ul>			And Or			
Key: Left Arrow All Keys						
First Modifier:						
Second Modifier:						
Log Toggle: •						
Target: •						







## DLA ACTUATORS WYBIERZ MOTION

a v View A	dd									
Sensors	🗸 🗹 Sel 🛛 🗹 Act	🗹 Link 🛛 🗹 Sta	ate	Controllers	🗸 🗹 Sel	🗹 Act 🛛 🗹 Lini	k	Actuators	🗸 🗹 Sel 🛛 🔽 Ad	ct 🗹 Link 🔽
	Cube	Add Sensor	~	•	Cube	Add Controller	~		Cube	Add Actuator
<ul> <li>Keybo</li> </ul>	ard 🗸 Keyboard 🔗		P	🖉 🔻 And	~ And		< <i>C</i> P		Motion 🗸 Motion	\$ • • •
🔺 🔻 Sk	ip 0 Level Ta	p Invert	k	Controller vi	sible at: State 1		~	4 .	e: Simple Mot	
ey:	Left Arrow	All Keys							× 0.00	1 Z 0.00
irst Modifier:									×	Z 0°
econd Modif	ier.									
og Toggle:	•									
arget:	•									







## POŁĄCZYLIŚMY SENSORS Z CONTROLLERS









## NASTĘPNIE CONTROLLERS Z ACTUATORS

🔹 🗸 View A	dd																				
Sensors	🗸 🗹 Sel 🛛 🗹 Act	🛃 Link	🛃 State		Contro	ollers	🗸 🗹 Se	a (	🗹 Act	<b>V</b> U	ink		Act	tuators	~ 🗸	Sel	<b>Z</b> A	ct 💽	🛾 Link	🛃 Sta	ate
	Cube	Add Sensor		•	۰ 🗖		Cube		Add C	Controlle	r	~			Cul	be		Ad	d Actuato	or	*
▼ Keyboa	ard 🗸 Keyboard 🔗	• • •	× ¢	p	d ,	▼ And	~ And				×	ср	-dP	•	Motion	•	Motion	×			×
Ski	ip 0 Level Ta	p Inve	ert		c	ontroller vis	sible at:	State 1			~			Motio	n Type:	Sim	ple Motio	ı			•
Key:	Left Arrow	All Key	ıs											Loc:		X 0	.00	Y 0.00	Z 0.	00	L
First Modifier:					k									Rot:		х	0°	Y 0°	Z	0°	L
Second Modifi	ier:																				
Log Toggle:	•																				
Target:																					







### WPROWADŹ PRZEMIESZCZENIE WZDŁUŻ OSI X O -0,2

dis⊷ View Add					
Sensors 🗸 🗹 Sel 🔽 Act 🗹 Link	State Co	ontrollers 🛛 🗸 🗹 Sel	🗹 Act 🛛 🗹 Link	Actuators 🗸 🗸 S	el 🗹 Act 🗹 Link 🗹 State
Cube Add Senso	r y 🕨	Cube	Add Controller 🗸 🗸	Cube	Add Actuator 🗸
🔻 Keyboard 🗸 🔺 🔻	v 6 <sup>9</sup> 6 <sup>9</sup>	▼ And ∨ And	R 🔺 🗹 🗙 🖉	🕜 🔻 Motion	- Motion 🔗 🔺 🗹 🗙
Skip 0 Level Tap In	vert	Controller visible at: State 1		Motion Type:	imple Motion 🗸 🗸 🗸
Key: Left Arrow All Ke	eys			Loc: þ	2 Y 0.00 Z 0.00 L
First Modifier:				Rot:	0° Y 0° Z 0° L
Second Modifier:					
Log Toggle: •					
Target: •					







### KLIKNIJ 0 (zero) Z KLAWIATURY NUMERYCZNEJ PRZEJDZIESZ DO WIDOKU Z KAMERY







### NACIŚNIJ KLAWISZ P, ABY URUCHOMIĆ GRĘ, NASTĘPNIE KLIKAJ W LEWĄ STRZAŁKĘ CUBE BĘDZIE SIĘ PRZESUWAŁ









### ZGODNIE Z NASTĘPUJĄCYM WZOREM DODAJ WIĘCEJ ELEMENTÓW DLA PRAWEJ STRZAŁKI

🔹 🗸 View Add								
Sensors 🗸 🗹 Sel 🛛 💆 Act	🗹 Link 🛛 🗹 Stat	e Contro	llers 🗸 🗸 Sel	🗹 Act 🛛 🗹 L	Link	Actuators 🗸 🧧	🖌 Sel 🛛 🔽 Act	🗹 Link 🛛 🗹 State
Cube	Add Sensor	✓ ▶	Cube	Add Controlle	er v	CL	ibe	Add Actuator 🗸 🗸
► Keyboard Keyboard 🕺		e?e? •	And And Sta 1		× c <sup>p</sup> c <sup>f</sup>	D Motion	Motion	
🔻 Keyboard 🗸 Keyboard 🕺	• • • • ×	ee?	And v And.001		× d? d	P Motion	→ Motion.001	x 🔺 🗹 🗙
▲ ▼ Skip 0 Level Ta	ap Invert	Co	ontroller visible at: Stat	21	~	Motion Type:	Simple Motion	×
Key: Right Arrow	All Keys					Loc:	X 0.20 Y 0.0	00 Z 0.00 L
First Modifier:						Rot:	X 0° Y (	0° Z 0° 📘
Second Modifier:								
Log Toggle: •								
Target:								







## I DLA Strzałki do góry

View Add																														
Sensors	🗸 🛃 Sel	🗹 Act		<b>V</b> 1	link	~	State	ł	Co	ntrolle	ers		~ ~	Sel		Act		<b>V</b> I	Link		Act	uator	s v	🗸 Sel		Act		Link	ع 🔽	itate
	Cube			Add	Senso	r		*	•			C	Cube			Ad	id Con	trolle	er	~			C	ube			Add	Actuat	or	~
<ul> <li>Keyboard</li> </ul>	Keyboa	ard	57		•	<	×	P	e	Þ	And	Ar	nd	Sta 1					×	P	d	►	Motion		Motio	n	\$1			×
Keyboard	Keyboa	ard.001	57		•	•	×	C?	P	►	And	Ar	1d	Sta 1				•	×	P	c	Þ	Motion		Motio	n.001	Ŕ			
🔻 📐 Keyboard	d 🗸 🛛 Keybo	oard	53		•	<b>v</b>	×	c?	C?	•	And	1 v	<b>A</b>	nd.002		٨	•	~	×	P	e	•	Motion	1 -	Moti	on.002	\$			×
🔺 🔻 Skip		Level	Тар		Inv	vert				Con	troller	visible	at:	State	1				~			Moti	on Type:	Sim	nple Mo	tion				~
Key:	Up	o Arrow			All Ke	eys																Loc:		X	0.00	Y 0.	20	Ζ0	00	L
First Modifier:																						Rot:		Х	0°	Y	0°	Z	0°	L
Second Modifier																														
Log Toggle:	•																													
Target:	•																													







## DLA STRZAŁKI NA DÓŁ NIE DODAWAJ KONTROLERA

å *	View Add	1																											
Sensors 🗸 🗹 Sel 🔽 Act						🗹 Línk 🛛 🗹 Sta			e Controllers			ers	🗸 🗹 Sel			🗹 Act 🛛 🗹 Link		Link		Ac	tuators	· • 🗸	Sel	🗹 Act		Link	I	🗸 Sta	te
		Cube			Add Sensor				~		•		Cube		Add Controller			~			Cu	be		Ad	d Actu	ator		~	
►	Keyboard	Keyboa	rd	S?		V		×	8	- P	Þ	And	And	Sta 1				×	c?	-8	►	Motion		Motion	Ŕ		V		×
	Keyboard	Keyboa	rd.001	\$				×	e?—	69	►	And	And	Sta 1				×	c?	- cP	►	Motion		Motion.001					×
►	Keyboard	Keyboa	rd.00	\$				×	8	e?	►	And	And	Sta 1				×	<i>©</i>	- P	►	Motion		Motion.002					×
►	Keyboard	Keyboa	rd.00					×	er,											P	•	Motion	~	Motion.00	57				×
																					Moti	on Type:	Sim	ple Motion					~
																					Loc:		X O	.00 Y	0.00	Z	0.00		L
													4		P						Rot:		Х	0° Y	0°	Z	0°		







### PODCZAS POŁĄCZENIA SYSTEM SAM DODA CONTROLERS

Sensors Sel Act   Cube Add Sensor   Cube Add Controller     Add Sensor     Cube     Add Controller     Add Sensor     Cube     Add Controller     Add Sensor     Cube     Add Controller     Add Sensor     Cube     Add Controller     Cube     Add Controller     Add Controller     Cube     Add Controller	💑 🗸 View Add							
Cube       Add Controller       Cube       Add Actuator          Keyboard       Keyboard.001 <t< th=""><th>Sensors 🗸 🗸</th><th>Sel 🗹 Act</th><th>🗹 Act 🛛 🗹 Link 📝 State</th><th>Controllers 🛛 🗸 🗹 Sel</th><th>🗹 Act 🛛 🗹 Link</th><th>Actuators 🗸</th><th>🖌 Sel 🛛 🗹 Act 📝 Link</th><th>🗸 State</th></t<>	Sensors 🗸 🗸	Sel 🗹 Act	🗹 Act 🛛 🗹 Link 📝 State	Controllers 🛛 🗸 🗹 Sel	🗹 Act 🛛 🗹 Link	Actuators 🗸	🖌 Sel 🛛 🗹 Act 📝 Link	🗸 State
Keyboard       Motion       Motion.002       Keyboard       Keyboard <td< th=""><th>Cu</th><th>be</th><th>Add Sensor 🗸</th><th><ul> <li>Cube</li> </ul></th><th>Add Controller 🗸</th><th>C</th><th>ube Add Actuator</th><th>~</th></td<>	Cu	be	Add Sensor 🗸	<ul> <li>Cube</li> </ul>	Add Controller 🗸	C	ube Add Actuator	~
<ul> <li>Keyboard.001 x x x x x x x x x x x x x x x x x x</li></ul>	<ul> <li>Keyboard</li> </ul>	Keyboard 🔗	d 🖈 🔺 🖌 🖉	And And Sta 1		- c <sup>2</sup> ► Motion	Motion 🔗 🔺 🔻	
• Keyboard       • Keyboard.00       • • • • • • • • • • • • • • • • • • •	<ul> <li>Keyboard</li> </ul>	Keyboard.001 🔗	rd.001 🔗 🔺 🗹 🗙 🖉	P And And Sta 1		B Motion	Motion.001 🔗 🔺 🔻	
Keyboard       Keyboard.00       Keyboard.00       Keyboard.00       And       And       And.003       Keyboard       Motion       Motion.003       Keyboard         Keyboard       Keyboard.00       Keyboard       Keyboard.00       Keyboard       Keyboard.00       Keyboard       Motion       Motion.003       Keyboard       Keyboard       Motion       Motion.003       Keyboard       Keyboard       Keyboard       Motion       Motion.003       Keyboard       <	<ul> <li>Keyboard</li> </ul>	Keyboard.00 🔗	rd.00 🔗 🔺 🗹 🔀 🖉	P And And Sta 1		e <sup>2</sup> ► Motion	Motion.002 🔗 🔺 🔻	X
Controller visible at: State 1  Motion Type: Simple Motion	<ul> <li>Keyboard</li> </ul>	Keyboard.00 🔗	rd.00 🔗 🔺 🗹 🗙 🖉		📕 🔺 🗹 🗙 🖉	ේ 🗸 Motion	n 🗸 Motion.003 🔗 🔺 🔻	×
				Controller visible at: State	1* 📐	Motion Type:	Simple Motion	~
						Loc:	X 0.00 Y 0.00 Z 0.00	
Rot: X 0° Y 0° Z 0°						Rot:	X 0° Y 0° Z 0	





### USTAW TE SAME PARAMETRY DLA WSZYSTKICH STRZAŁEK

å.~	View Add	t i																							
Ser	nsors	🗸 🗹 Sel 🛛 🔽	Act	🛃 Link		🖌 Stat	e	с	ontrol	lers	~ 🗸	Sel	Act		Link		Ac	tuator	s 🗸 🗸	Sel	🗹 Act		Link	🛃 St	ate
		Cube		Add Sensor			~	•			Cube		Add Cor		er	~		C		be		Add Actuate		n.	~
►	Keyboard	Keyboard	57			×	в <sup>р</sup>	e	Þ	And	And	Sta 1			×	c?	8	►	Motion		Motion	ŞÎ			×
Þ	Keyboard	Keyboard.00	01 🔗			×	в <sup>р</sup>	eP	►	And	And	Sta 1			×	c?	69	►	Motion		Motion.001	Â			×
►	Keyboard	Keyboard.00	o <i>≲</i> ?			×	C?	eP	►	And	And	Sta 1			×	<i>&amp;</i>	- P	►	Motion		Motion.002	57			×
►	Keyboard	Keyboard.00	0 <i>S</i> ?	• •		×	E?	ð	►	And	And	Sta 1			×	<i>&amp;</i>	e	•	Motion	~	Motion.003	ŞÎ			×
																		Moti	on Type:	Sim	ple Motion				~
																		Loc:		х	).00 Y -0.2	0	Ζ0.	00	L
																		Rot:		Х	0° Y (	)°	Z	0°	L





## DLA JASNOŚCI ZMIEŃMY NAZWY







### MOŻEMY WŁĄCZYĆ OPCJĘ, KTÓRA WYŚWIETLI DZIAŁANIE SYSTEMU



## DZIĘKUJĘ ZA UWAGĘ



#### Co-funded by the European Union

#### **Co-runged by** the European Union



2024-1-PL01- KA220-VET-000243150