

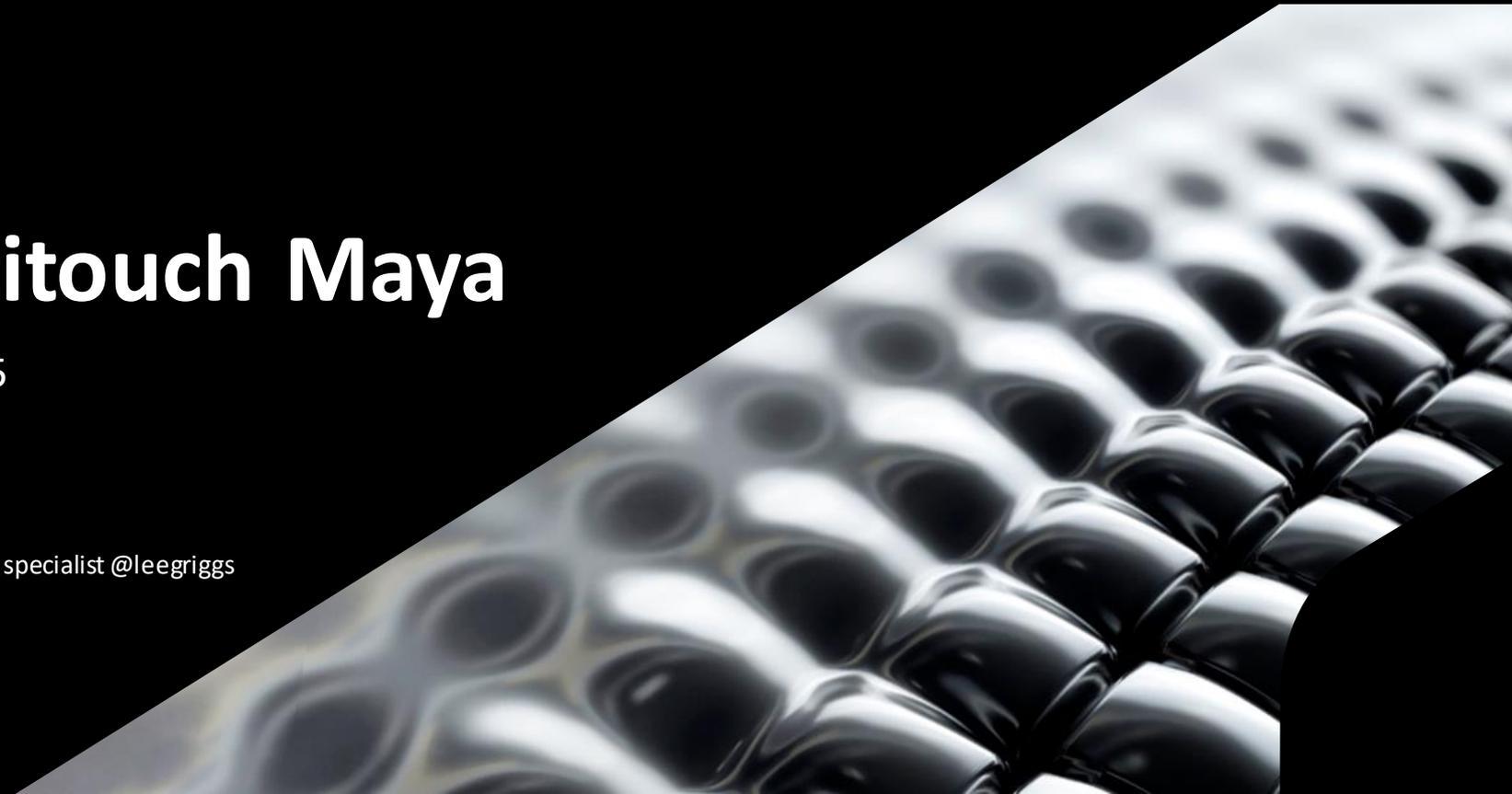


# Multitouch Maya

FTV501085

Lee Griggs

Arnold rendering specialist @leegriggs



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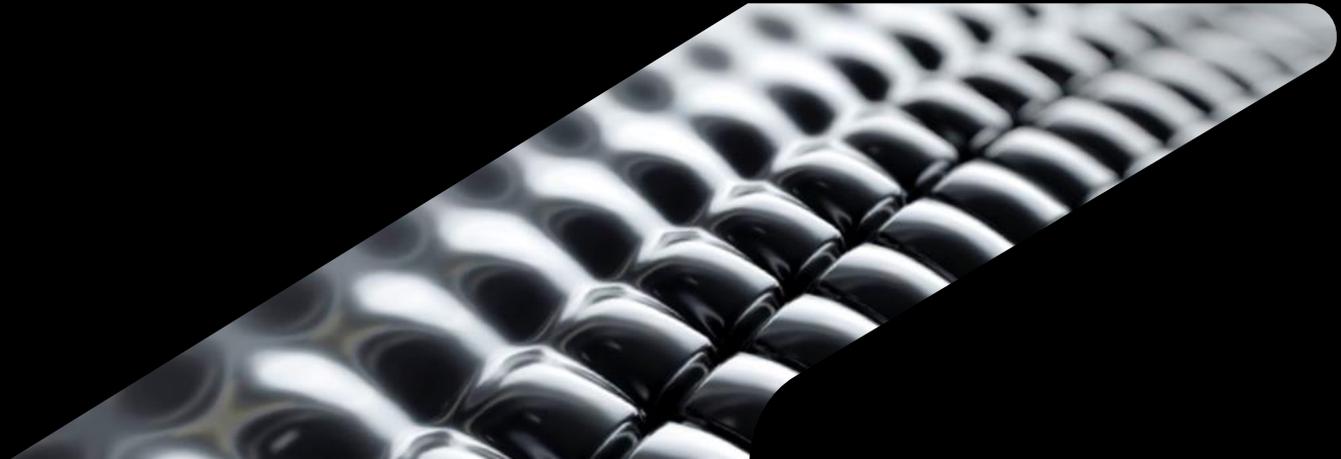


Learn ways to prevent RSI through hotkeys and ergonomic workflows.

Learn why the traditional mouse and keyboard is limiting our speed and efficiency potential.

Learn about faster and more efficient ways to use 3D software in your workflow.

Learn how you can put multitouch technology to everyday use in a Windows environment.

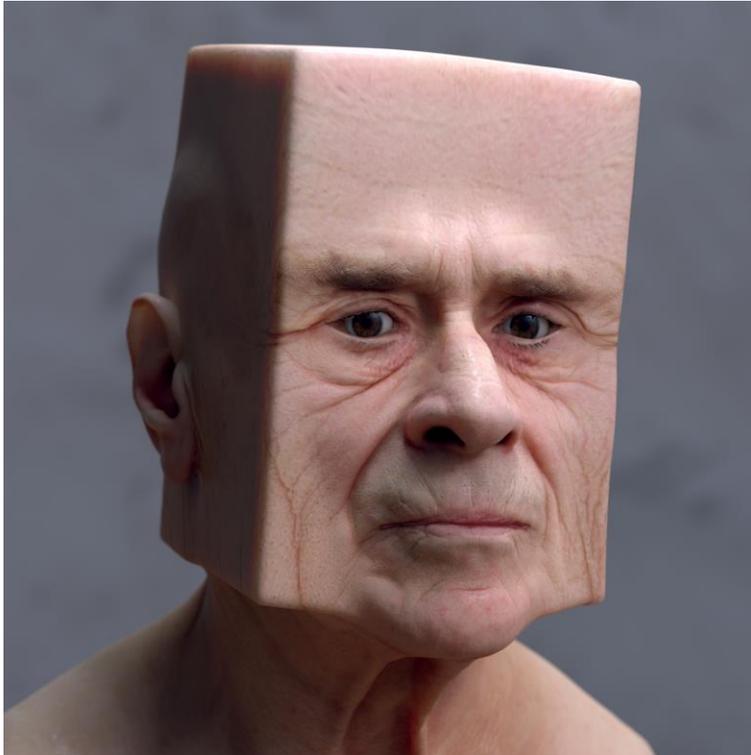


# Who am I?



# Lee Griggs

3D artist working with the Arnold renderer



MAYA



3DS MAX



HOUDINI



CINEMA 4D



KATANA



ARNOLD  
Arnoldpedia & Node  
Reference



SUPPORT  
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# YouTube: Arnold renderer

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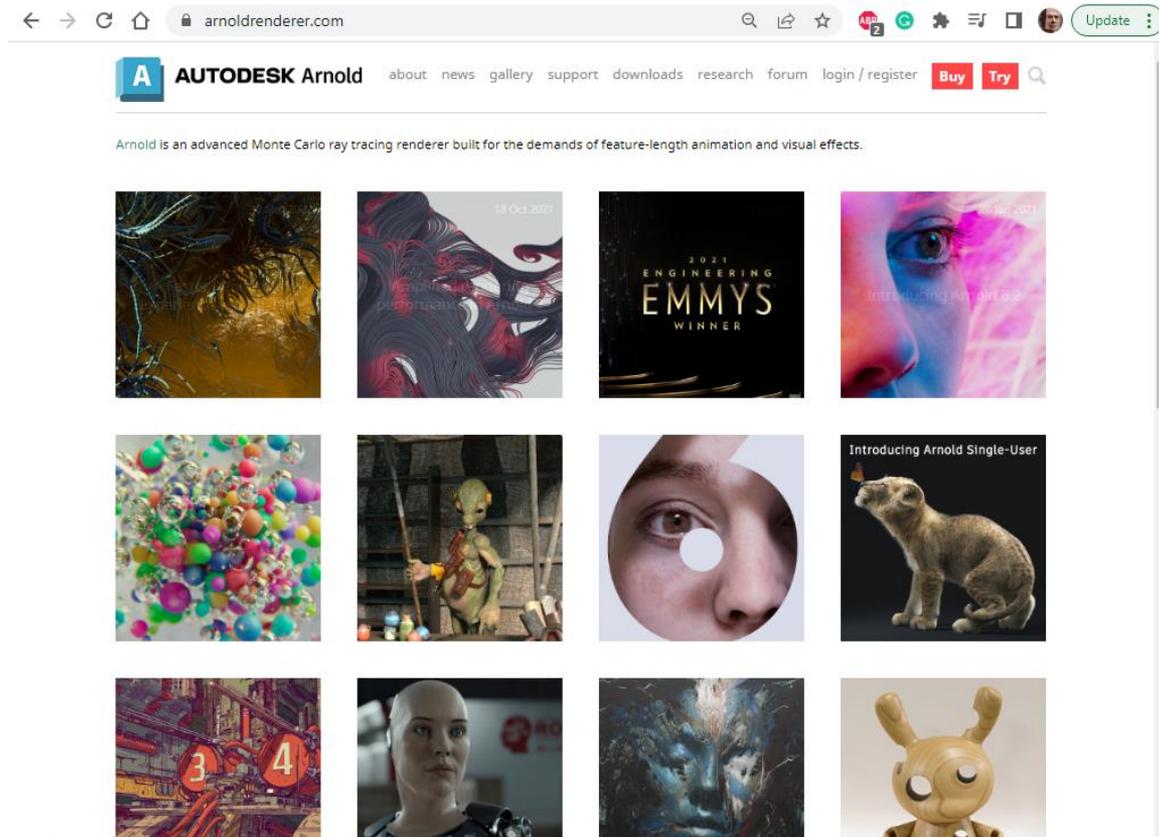
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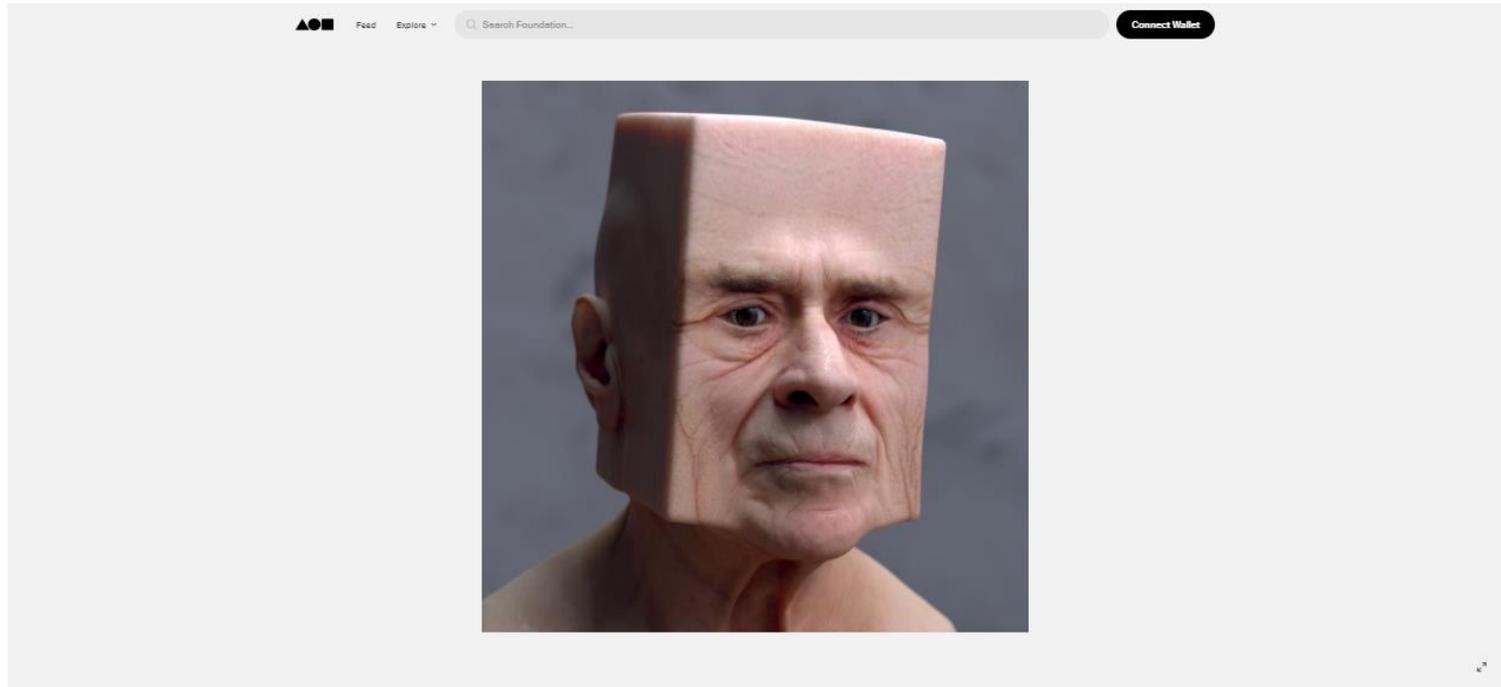
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**object id mask**  
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Arnold tutorial - Object id masks in C4DtoA  
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# www.arnoldrenderer.com



<https://foundation.app/@LeeGriggs/nftssuck/1>



## blockhead

Minted on Feb 9, 2022

Created by

@LeeGriggs

Collection

blockhead

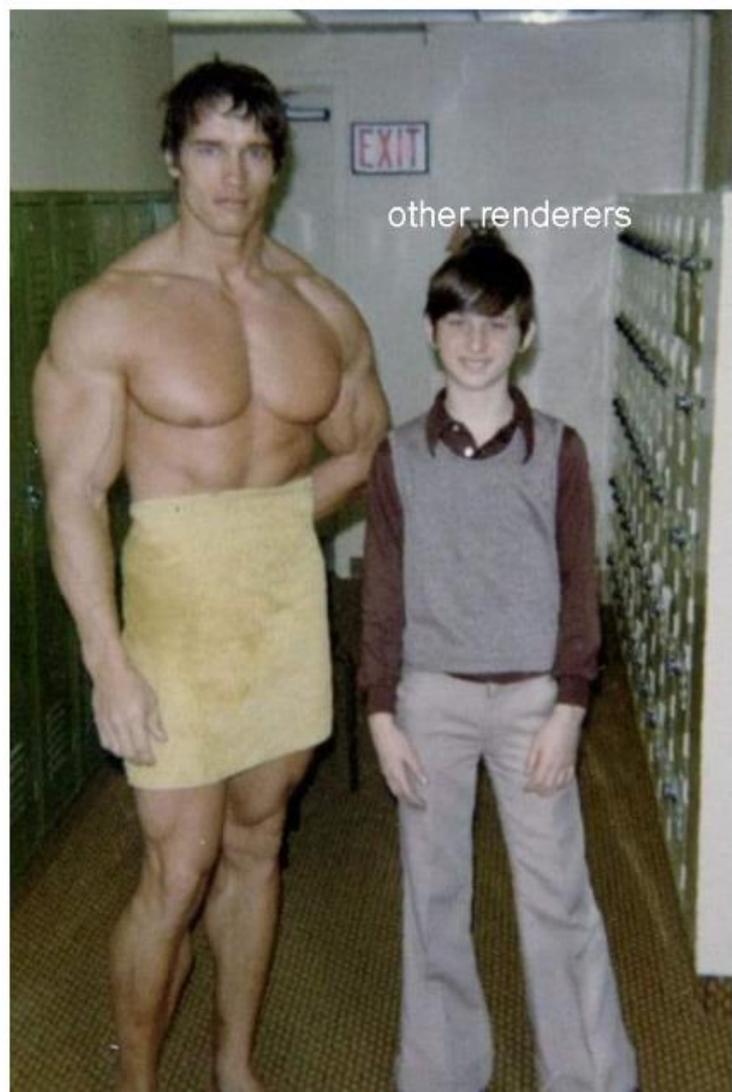
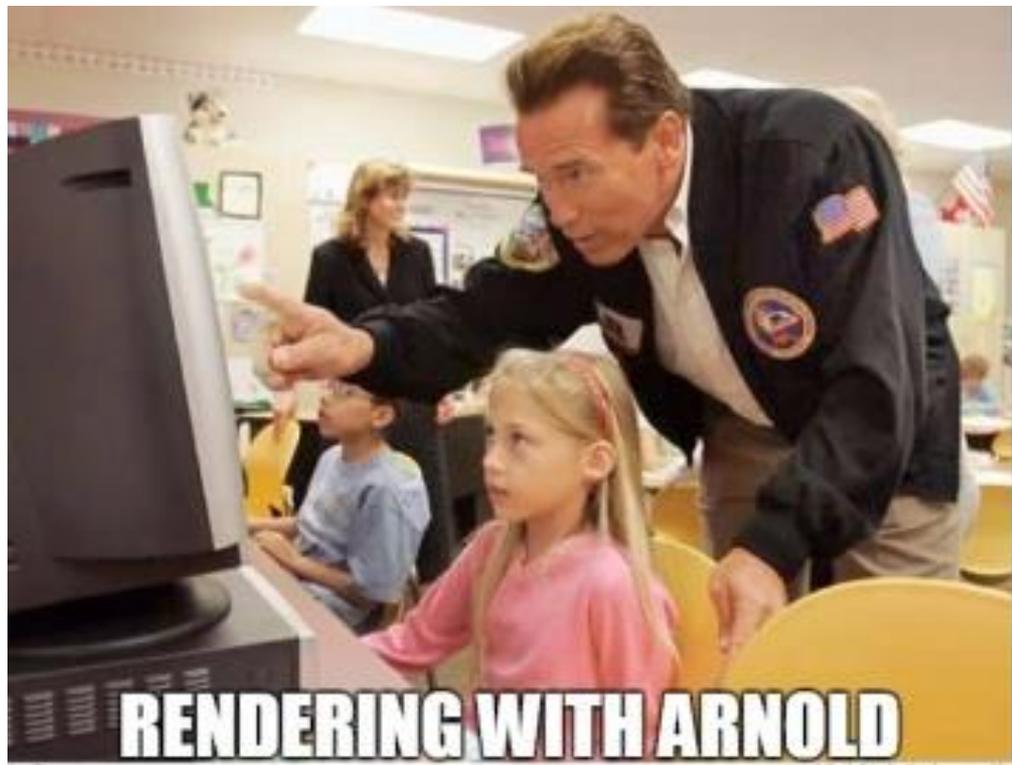
Reserve

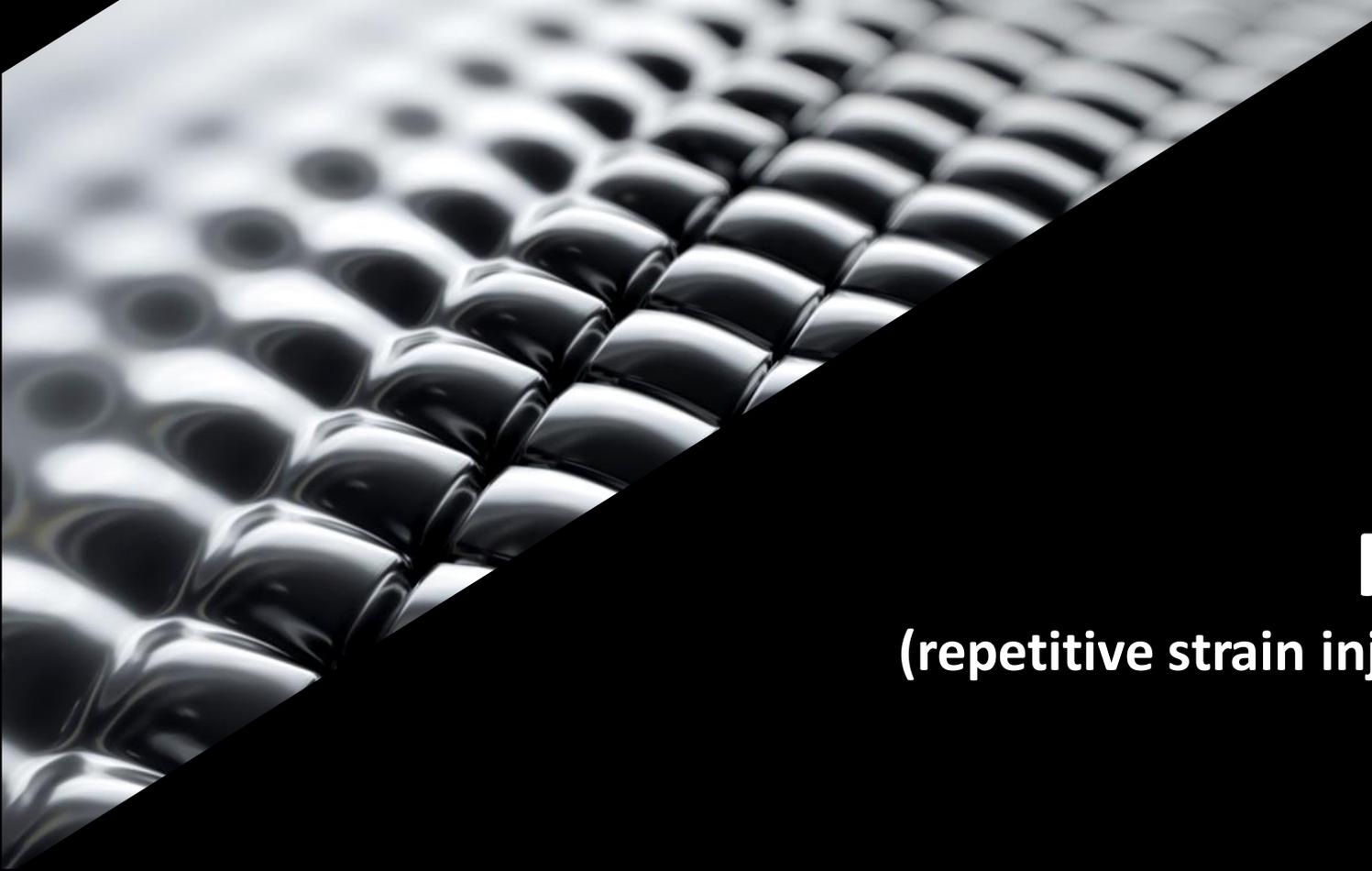
100,000.00 ETH

Place bid

# AI ART







**RSI**  
(repetitive strain injury)

# RSI !!!



## Repetitive Strain Injury



# RSI cases

<https://upload.wikimedia.org/wikipedia/commons/6/69/RSI-symptoms.jpg>

**1 in every 50 workers** has RSI symptoms:  
According to the Trades Union Congress (TUC), 1 in every 50 workers has reported experiencing RSI symptoms. [3] These numbers are even higher in industries like computer operation where the prevalence is as high as 1 in every 4 employees. Sep 12, 2019.

(<https://ergonomictrends.com/rsi-statistics/>)



Repetitive Stress Injuries by Nick Youngson CC BY-SA 3.0 Pix4free.org

# RSI cases

According to OSHA, RSIs are one of the fastest growing injuries in the country. They affect nearly **1.8 million** workers each year.

([https://www.workinjuryrights.com/injury-type/repetitive-stress-injuries/#:~:text=Repetitive%20stress%20injuries%20\(RSI\)%20are,can%20happen%20just%20about%20anywhere](https://www.workinjuryrights.com/injury-type/repetitive-stress-injuries/#:~:text=Repetitive%20stress%20injuries%20(RSI)%20are,can%20happen%20just%20about%20anywhere))



# RSI cases

<https://www.picpedia.org/medical-05/r/repetitive-stress-injuries.html>

**Half of people who work with computers suffer from RSI symptoms:** Researchers in Sweden revealed that almost half of all people who work with computers complain of RSI related pain in the wrist, hand, neck and shoulders.

(<https://www.healthytyping.com/statistics/>)

<http://www.freeimageslive.co.uk/taxonomy/term/15/0?page=11>



**"It will never happen to me."**

**But it did!**

# Prevention is far easier than cure

(It's always nice to hear that after you've got RSI).

Disclaimer that anyone seeking treatments for RSI should consult a qualified professional. I am merely giving some tips and advice on help and prevention.

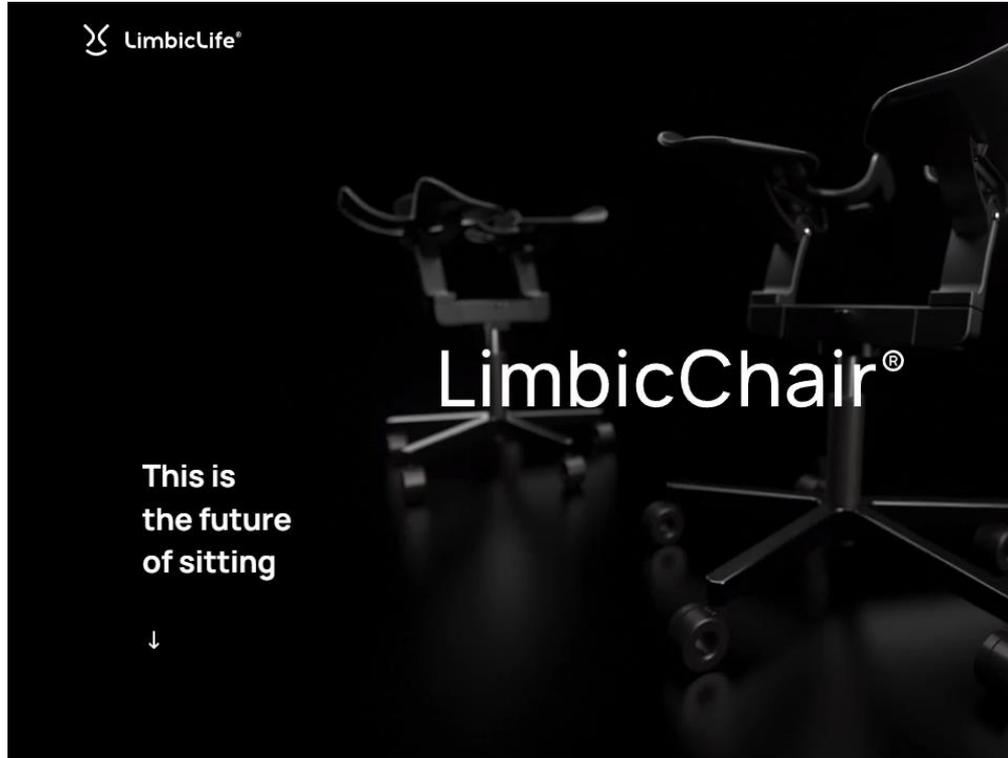
- Take regular breaks
- Don't use a wrist rest. They apply pressure to tendons and nerves in the wrist.
- Drink plenty of water.
- Learn your keyboard shortcuts.
- Learn to touch type (DVORAK).
- Light touch keyboard.
- Use multiple devices, tablets, vertical mouse, etc. (helps to prevent overuse the same muscle groups)

# Invest in a good desk and chair (Hag Capisco)



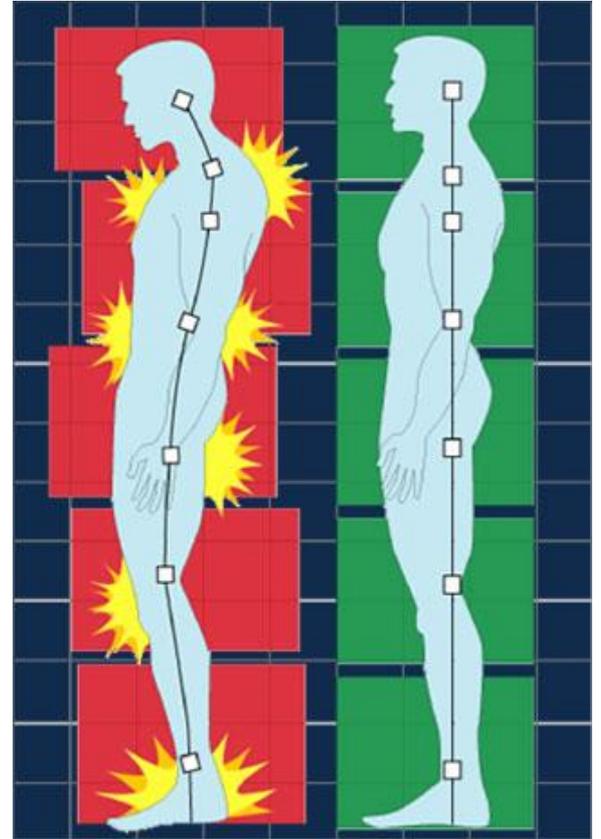
# Limbic chair

<https://limbic-life.com/product/limbicchair/>



# Massage

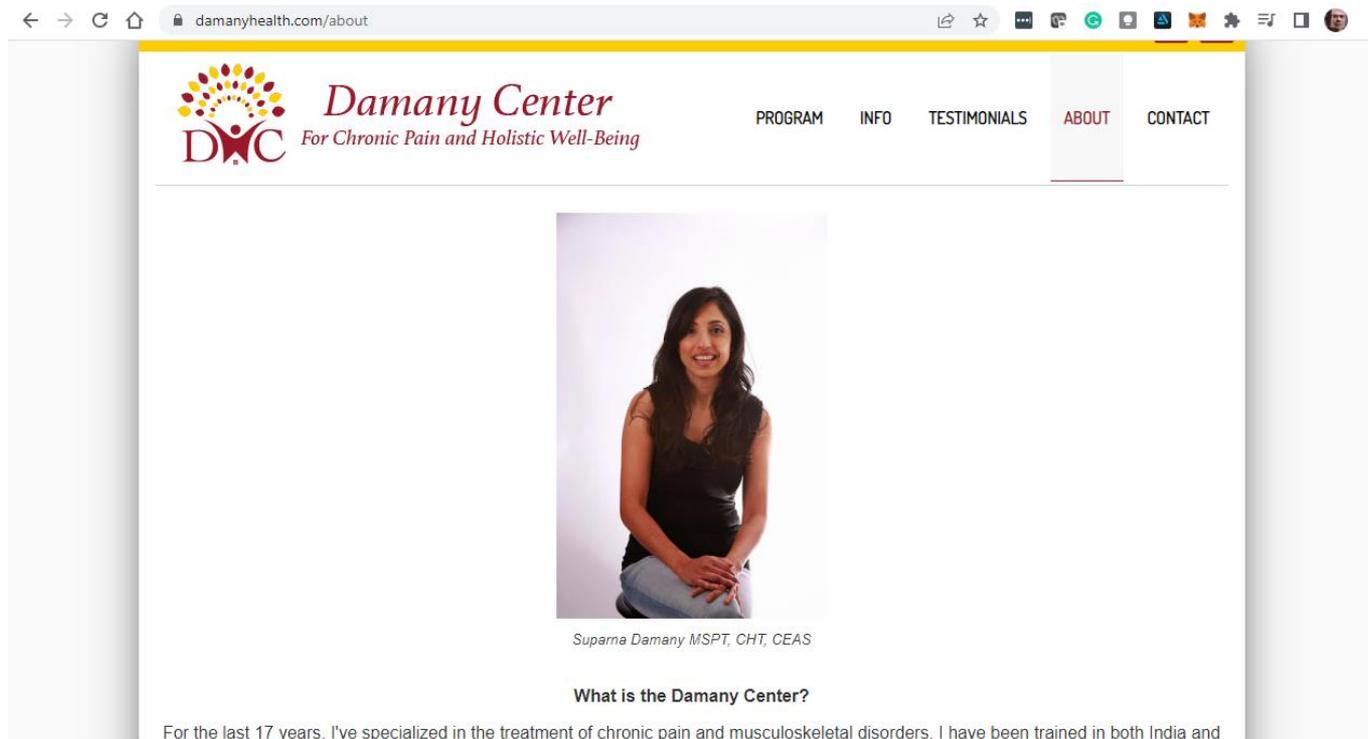
- Sports deep tissue massage.
- Myofascial release/trigger point massage.
- Rolfing/ Rolf therapy/ Structural Integration



<https://www.flickr.com/photos/bethscupham/7387111804>

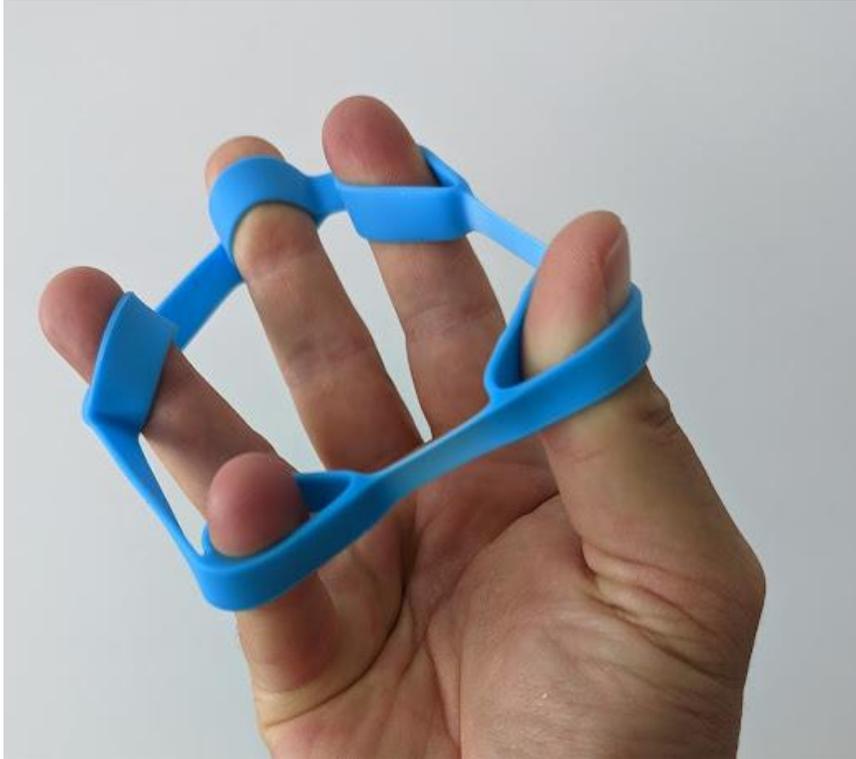
# Damany Center

https://damanyhealth.com/about



The screenshot shows a web browser window with the URL [damanyhealth.com/about](https://damanyhealth.com/about). The website header features the Damany Center logo on the left, which consists of a stylized figure with arms raised, surrounded by a semi-circle of colorful dots. To the right of the logo is the text "Damany Center" in a serif font, with the tagline "For Chronic Pain and Holistic Well-Being" in a smaller font below it. A navigation menu is located to the right of the logo, with the "ABOUT" link highlighted in a light gray box. Below the navigation menu is a large, centered photograph of a woman with long dark hair, wearing a black top and light blue jeans, sitting and smiling. Underneath the photograph is the caption "Suparna Damany MSPT, CHT, CEAS". Below the caption is the heading "What is the Damany Center?" followed by the beginning of a paragraph: "For the last 17 years, I've specialized in the treatment of chronic pain and musculoskeletal disorders. I have been trained in both India and".

# Hand exercises (extensor muscles)



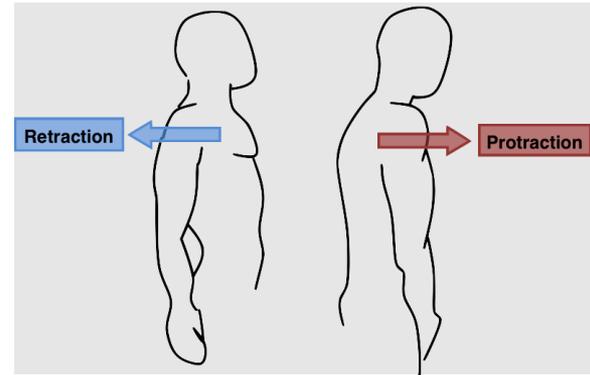
# Exercise

Exercises that uses your whole body



# Posture exercises for rounded shoulders and forward head posture

- Scapula retraction (weights or stretch bands).
- Pec stretch (through a door).
- Deep neck flexor exercises.



[https://upload.wikimedia.org/wikipedia/commons/f/f9/Protraction\\_Retraction.png](https://upload.wikimedia.org/wikipedia/commons/f/f9/Protraction_Retraction.png)

[https://commons.wikimedia.org/wiki/File:Thaifotos\\_Holmes\\_034.jpg](https://commons.wikimedia.org/wiki/File:Thaifotos_Holmes_034.jpg)

# The foam roller is your friend!

## Myofascial release

Thigh



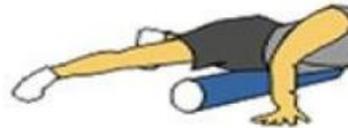
Erector Spinae (Back)



Calves



Hip (TFL)



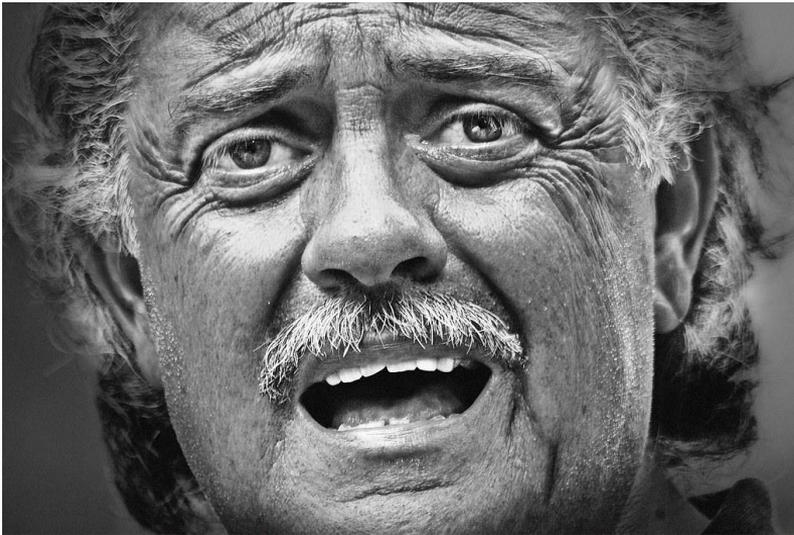
# Myofascial release



# Stress

## The mind body connection

- RSI is linked with stress
- Sarno: mind body approach.



<https://www.flickr.com/photos/cuppini/2659817133>

New York Times Bestselling Author of THE MINDBODY PRESCRIPTION

**JOHN SARNO, M.D.**

**MIND  
OVER**



**BACK  
PAIN**

A Radically New Approach to the  
Diagnosis and Treatment of Back Pain

# Alternative devices



Image courtesy of: <https://www.flickr.com/photos/cblue98/7254221968>

# Devices: Datahand

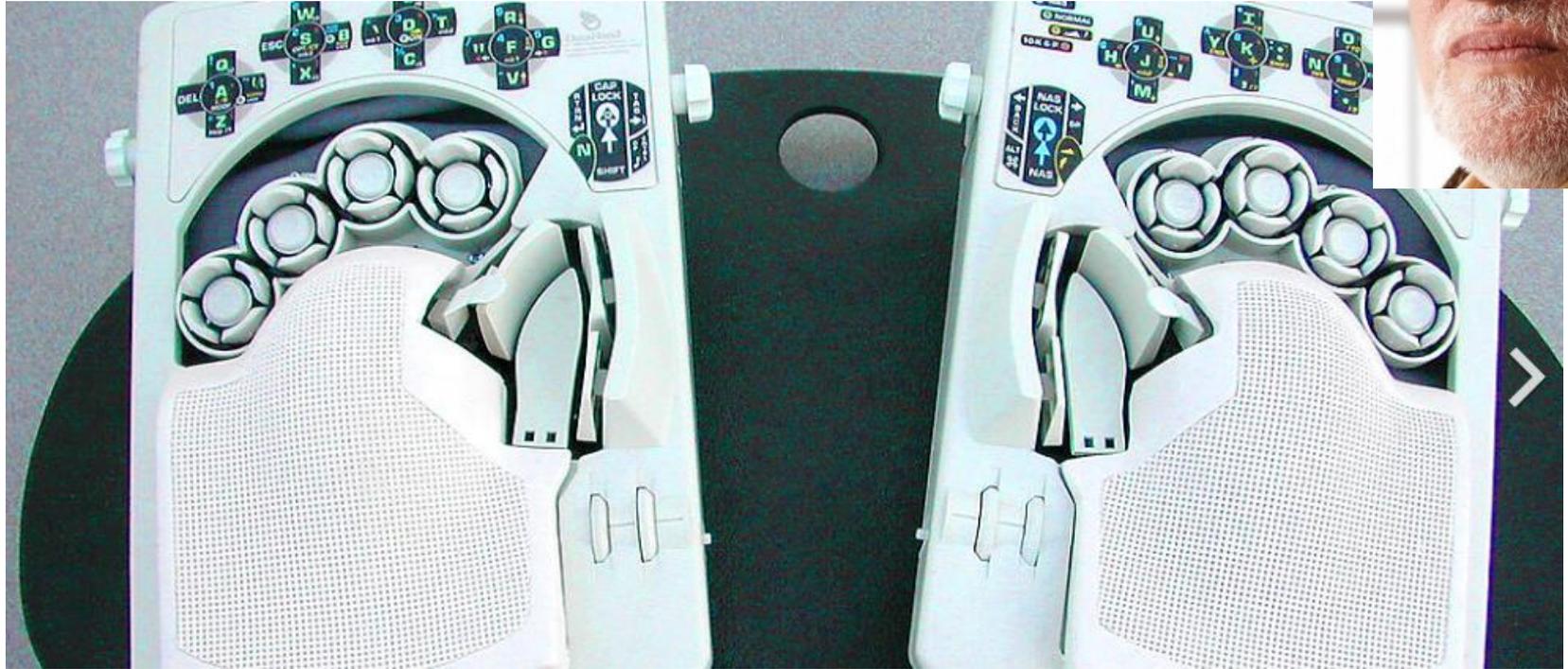


Image courtesy of: [https://commons.wikimedia.org/wiki/File:DataHand\\_overhead\\_view.jpg](https://commons.wikimedia.org/wiki/File:DataHand_overhead_view.jpg)

# Foot mouse



Image courtesy of: <https://www.flickr.com/photos/morning-theft/3345270065>

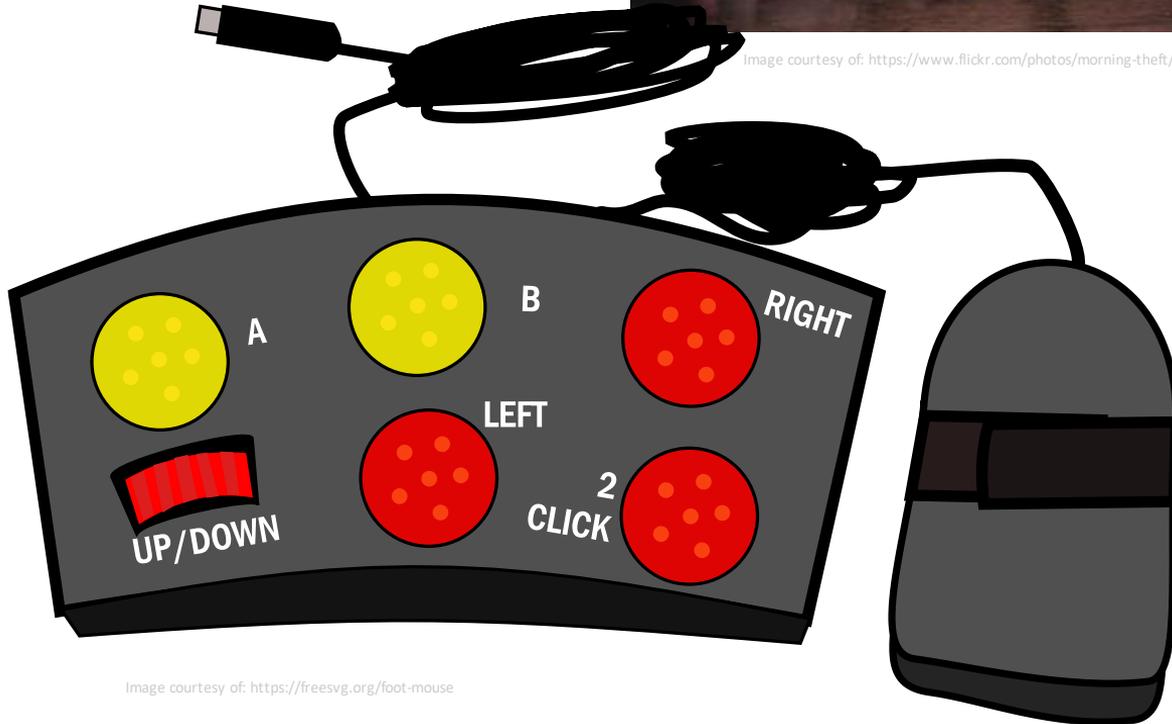
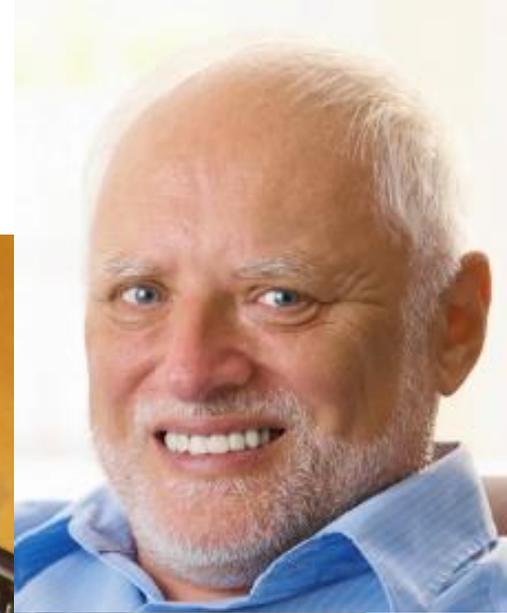


Image courtesy of: <https://freesvg.org/foot-mouse>

# Multi-touch technology. Yay!?



<https://en.wikipedia.org/wiki/FingerWorks>

# Fingerworks



QWERTY



DVORAK



# Fingerworks



John Elias and Wayne Westerman of the University of Delaware co-founded FingerWorks Inc. in 1998

# Fingerworks

## FingerWorks touch-sensitive input devices

TouchStream LP keyboard



iGesture Num Pad



iGesture Pad



Drop-in PowerBook keyboard

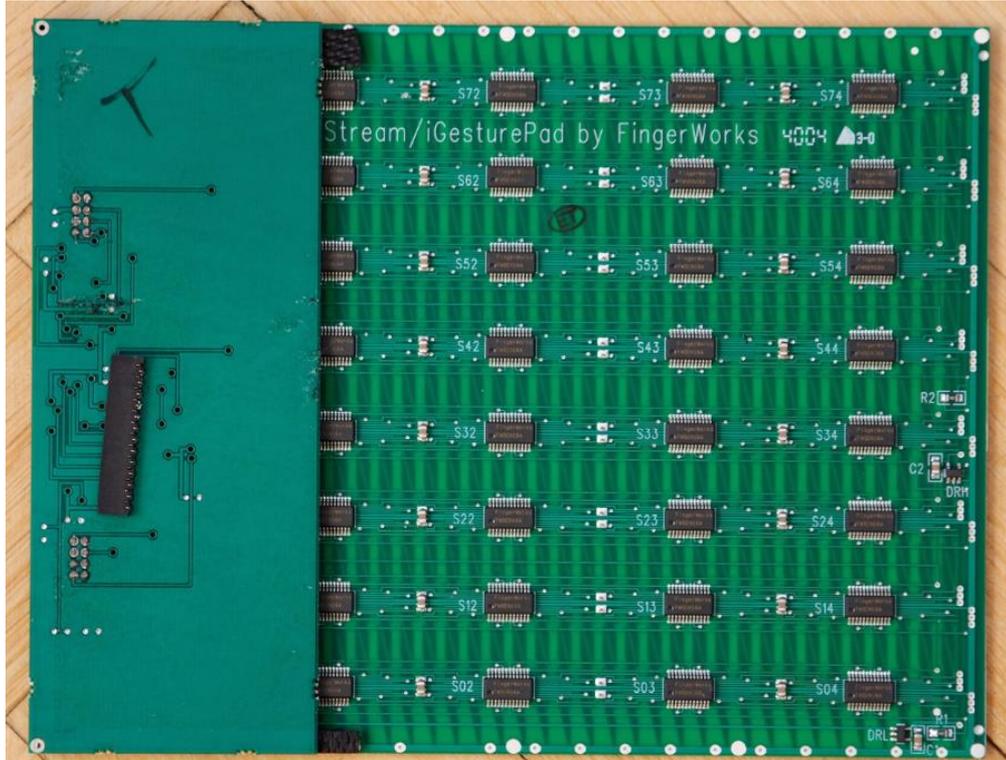


FingerWorks Mini



# Fingerworks

<https://jan.rychter.com/fingerworks-touchstream-kbd>



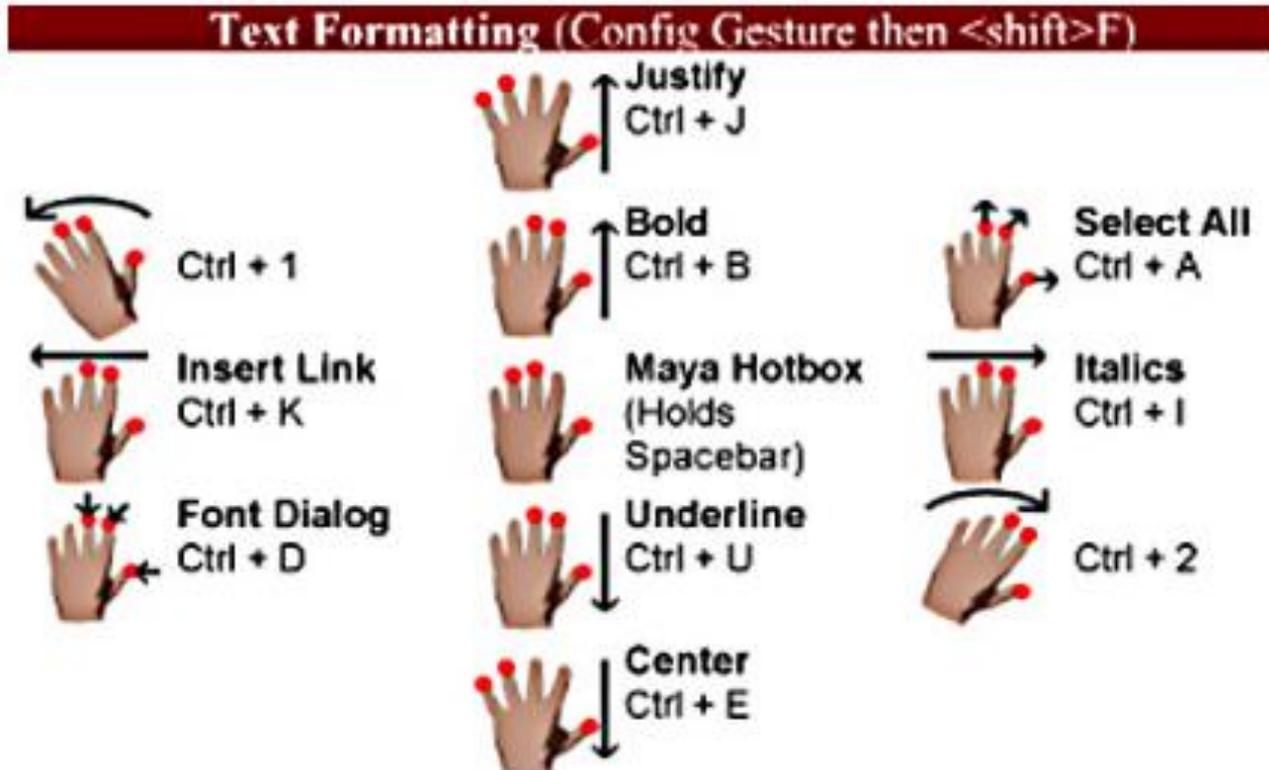
[https://commons.wikimedia.org/wiki/File:IPhone\\_First\\_Generation.jpg](https://commons.wikimedia.org/wiki/File:IPhone_First_Generation.jpg)

# Apple Magic Trackpad



[https://commons.wikimedia.org/wiki/File:Apple\\_Magic\\_Trackpad-3881.jpg](https://commons.wikimedia.org/wiki/File:Apple_Magic_Trackpad-3881.jpg)

# Apple patents multitouch gestures



# Default gesture sets

## Photoshop/Maya

**Additional Application Gesture Sets (Left Hand)**

**Configuration Gesture**

Touch all four corners simultaneously and hold for 1 second. Use this Gesture followed by the appropriate capitalized letter to enable the Gesture Sets below. In Mac mode, *Open Apple/Cmd* replaces *Ctrl*. In Unix/BeOS mode, *Alt* replaces *Ctrl*.

**Text Formatting (Config Gesture then <shift>F)**

Ctrl + T	Align Left Ctrl + L	Ctrl + 1	Insert Link Ctrl + K	Font Dialog Ctrl + D	Justify Ctrl + J	Bold Ctrl + B	Maya Hotbox (Holds Spacebar)	Underline Ctrl + U	Center Ctrl + E	Select All Ctrl + A	Italics Ctrl + I	Align Right Ctrl + R	Ctrl + 2	Ctrl + M
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**PhotoShop Gestures (Config Gesture then <shift> Z)**

Ctrl + W	Send Back Ctrl + [	De-Magnify Alt + Space + Click	Zoom Window Ctrl + 0	Zoom 100% Ctrl + Alt + 0	Magnify Ctrl + Space + Click	Bring Forward Ctrl + ]	Ctrl + M	Zoom In Ctrl + '+'	Zoom Out Ctrl + '-'	Space Drag Drag + Space bar (Spread)
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**Maya Gestures (Config Gesture then <shift> Y)**

Maya Pan Alt + Middle Drag	Maya Orbit Alt + Left Drag	Maya Zoom/Rotate
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**Desktop/Tool Selection Gestures (Config Gesture then <shift> D)**

Meta + F10	Prev Desktop Shift+Ctrl+Tab	Meta + F7	Meta + F4	Meta + F8	Meta + F5	Meta + F11	Meta + F9	Meta + F6	Ctrl + M	Next Desktop Ctrl + Tab
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# Create Your Own Gestures

It's Not Just a  
Big Touchpad



The iGesture Pad is an ultra-thin, large-area, touchpad that is both mouse and powerful multi-finger gesture input interface. Mouse operations like point, click, drag, scroll, and zoom are combined seamlessly with multi-finger gestures in the same overlapping area of the iGesture Pad's surface. The iGesture Pad gives you unprecedented control of graphical objects using gestures, and it works equally well with either hand. Anyone can learn the basic gestures in a few minutes! Slips easily into your travel bag as the perfect external USB mouse/gesture interface for your laptop.

## Features & Specifications:

Plugs and plays with Macs, Windows, and Linux.  
Multi-touch active area: 6.25 inches by 5 inches  
Dimensions: 0.31 x 7.1 x 5.5 inches  
Interface: USB  
Windows: 98, ME, 2k, XP  
Mac: OS X, 9 or Linux Kernel 2.4.x and higher  
Gesture set: Full single hand (left or right, auto detect)  
Power: 150 mA  
One Year Warranty

- Box Contains
  - \* iGesture Pad
  - \* Gesture Quick Guide
- \* CD with
  - MyGesture Editor
  - Animated Tutorials
  - Upgrade Utilities



FingerWorks, Inc  
www.fingerworks.com

## Create Your Own Gestures

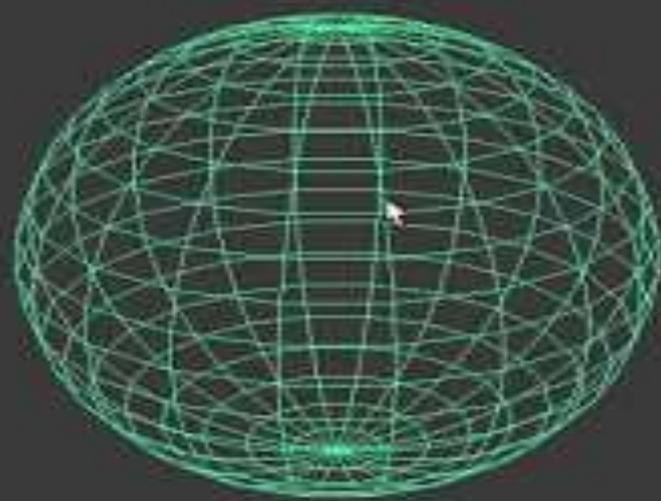
With our MyGesture Editor (included) you can map any gesture to produce any key or mouse event sequence. This means you can create your own gesture set optimized for your favorite applications.

### Quick Reference Guide for iGesture Products

**Mouse**  
Full-handed Pad users with full hand will see these configurations as shown below.

<b>Point</b> - Touch & slide one finger clockwise, slide left, slide	<b>File Operations</b> - Two Finger Gestures
<b>Click</b> - Lightly tap one finger clockwise, fingers	<b>Copy</b> - Touch & release CCM Thumb & First Fingers
<b>Double Click</b> - Tap twice clockwise, fingers	<b>Close</b> - Touch & release CM Thumb & First Fingers
<b>Right Click</b> - Tap thumb, middle & ring finger	<b>Save</b> - Touch & control Thumb & First Fingers
<b>Drag/Drop</b> - Touch & move, first finger	<b>Open</b> - Touch & expand Thumb & First Fingers
<b>Scroll</b> - Touch & slide up/down, first finger	<b>Editing</b>
<b>Zoom In/Out</b> - Touch & expand/contract, thumb & first finger	<b>C/P</b> - Touch & pinch thumb & middle finger
<b>Text Cursor</b>	<b>Copy</b> - Tap thumb & middle finger
<b>Left Arrow</b> - Touch & slide one finger left	<b>Paste</b> - Touch & second thumb & middle finger
<b>Right Arrow</b> - Spread first fingers, touch & slide out down	<b>Undo/Redo</b> - Touch & slide clockwise, thumb & middle finger, touch for angle step
<b>Home/End</b> - Spread first fingers, touch & slide left/right	<b>Stop</b> - Touch & pinch thumb, middle & ring finger
<b>Text Select</b> - Spread first fingers, touch & slide clockwise or left/right	<b>Cancel or Repeat Again</b> - Touch & slide thumb, middle & ring finger
<b>Tab/Shift</b> - Thumb and finger touch & slide right left - tap twice for single key	<b>Application Control</b> - Spread thumb and fingers, touch with fingers and edges
<b>Internet Browsing</b> - Two Finger Gestures	<b>Close Window</b> - Spread thumb & first index fingers, touch & middle CCM
<b>Back/Forward</b> - Touch & slide left/right thumb & first finger, move thumb slide from fingers	<b>Switch</b> - Spread thumb & first index fingers, slide left/right, tap twice for multiple times
<b>Refresh/Refresh</b> - Touch thumb & 3 fingers and slide down	<b>Off</b> - Spread thumb & first index fingers, touch & middle CM
<b>Number Pad - Enable with NumLock</b>	
Home - Lightly tap one finger	

FingerWorks  
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"You look like Harry Potter's love child using that thing"



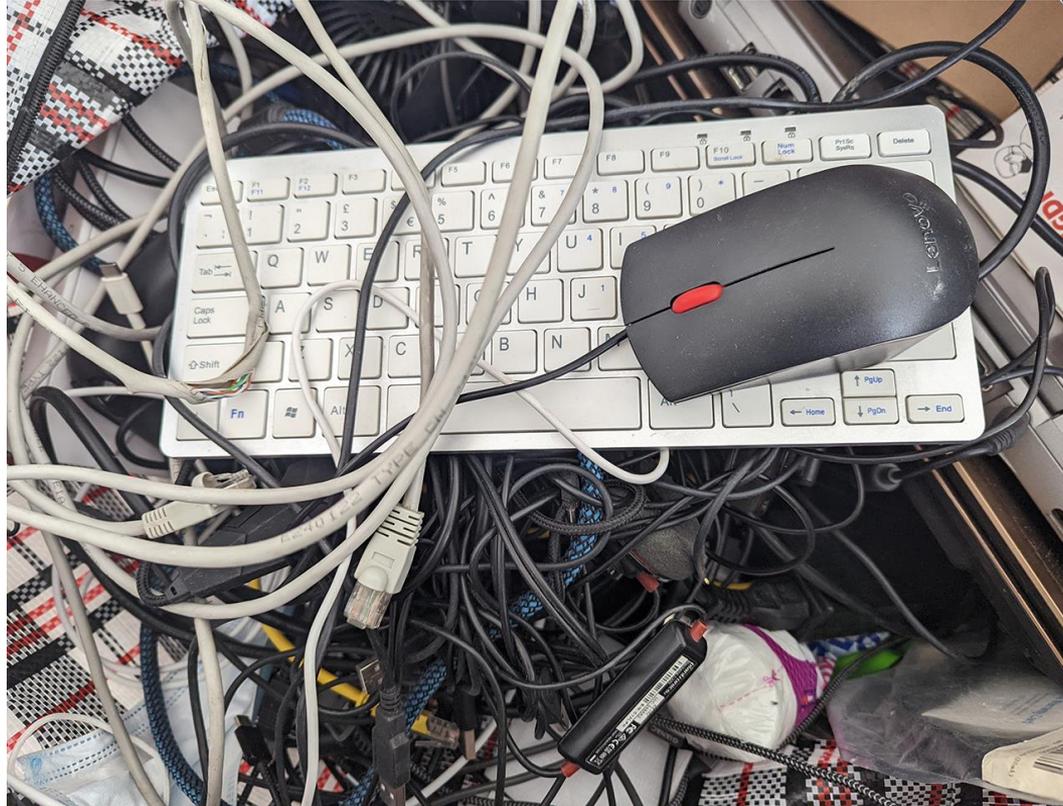
[https://upload.wikimedia.org/wikipedia/commons/b/b9/Cosplayers\\_of\\_Hermione\\_Granger%2C\\_Harry\\_Potter\\_and\\_Ron\\_Weasley\\_20180519c.jpg](https://upload.wikimedia.org/wikipedia/commons/b/b9/Cosplayers_of_Hermione_Granger%2C_Harry_Potter_and_Ron_Weasley_20180519c.jpg)



# Mouse & Keyboard

urgh!

# The antiquated typewriter keyboard & mouse



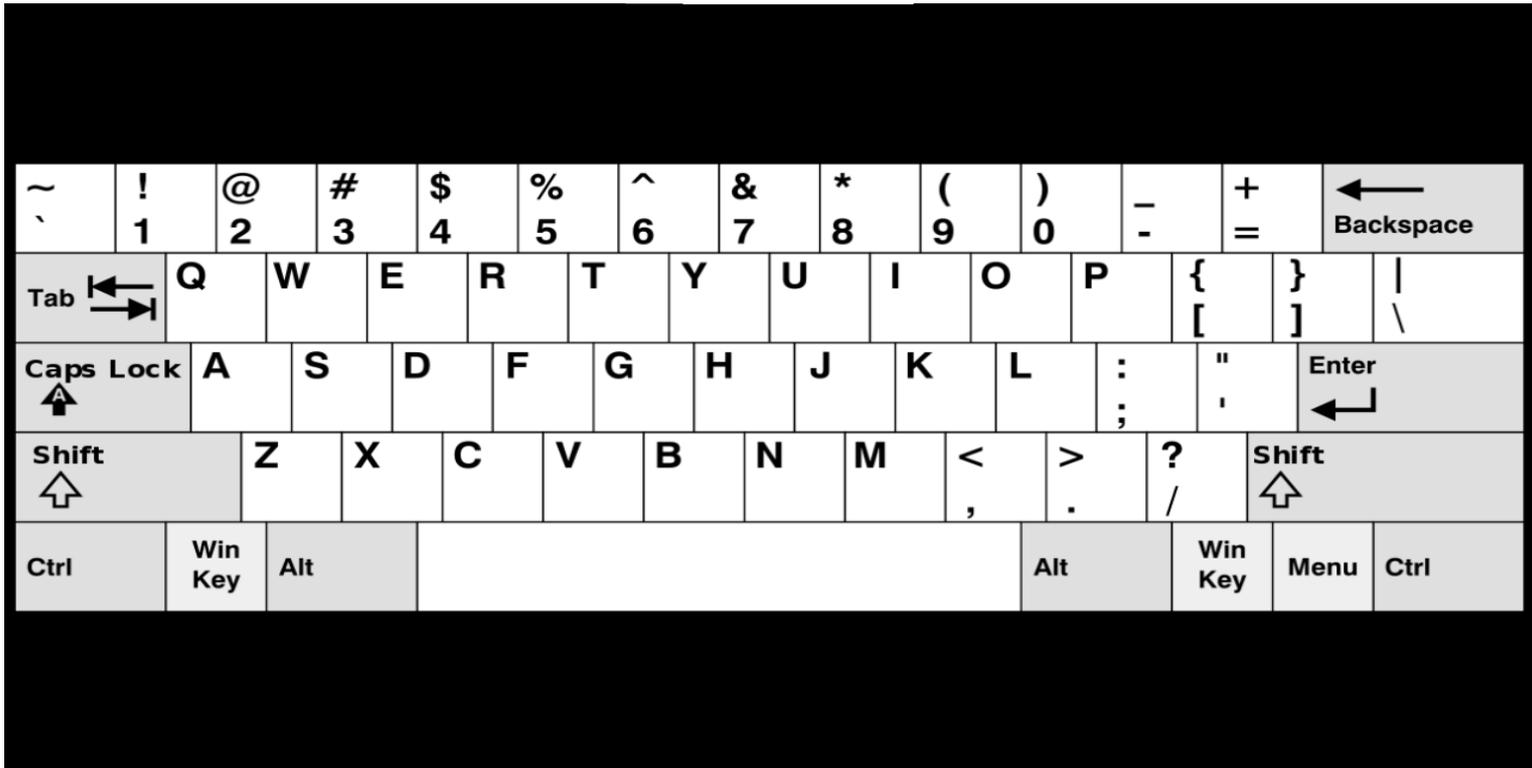
# Clicking a mouse button



# Clicking a mouse button



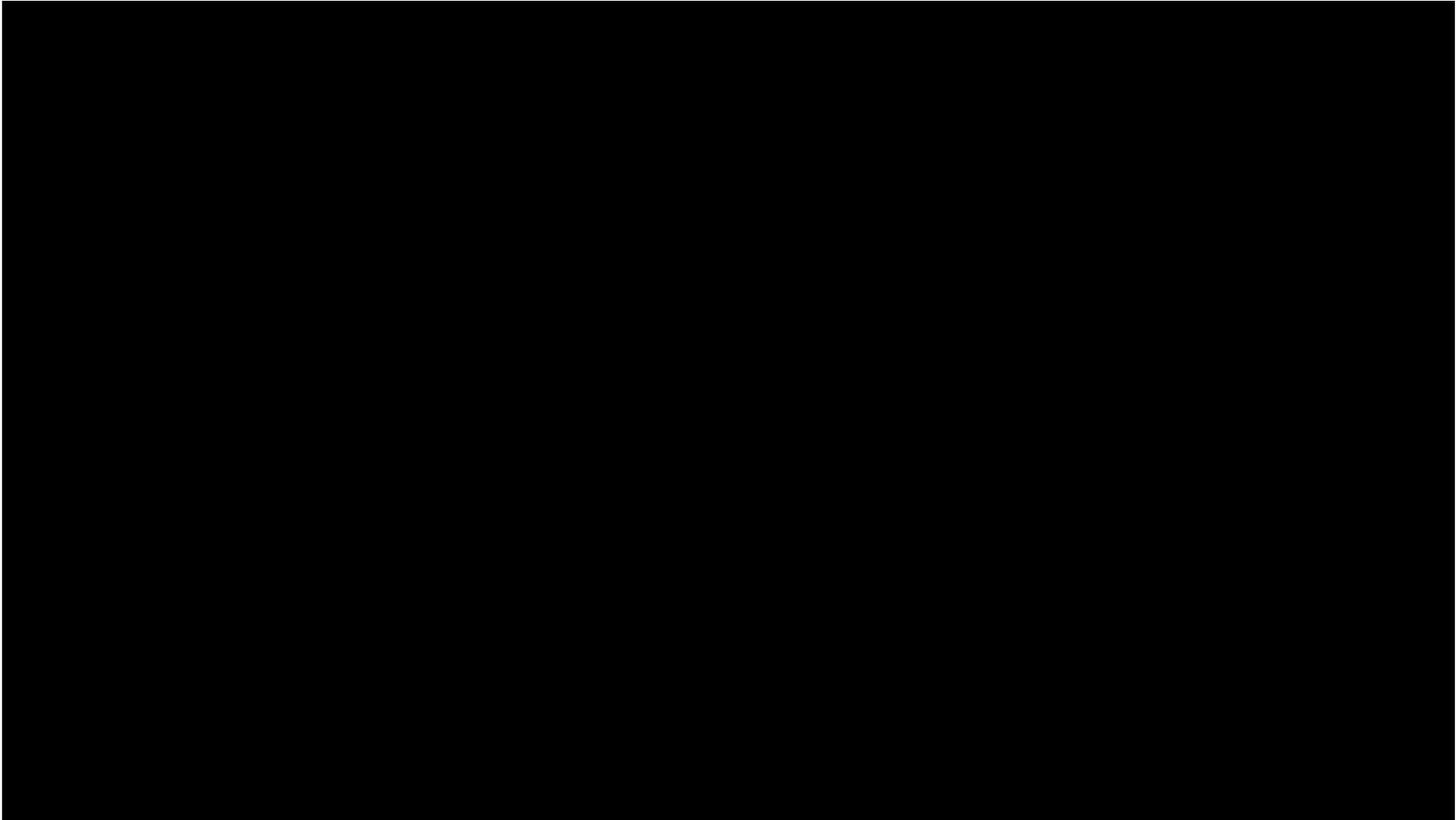
# QWERTY keyboard layout



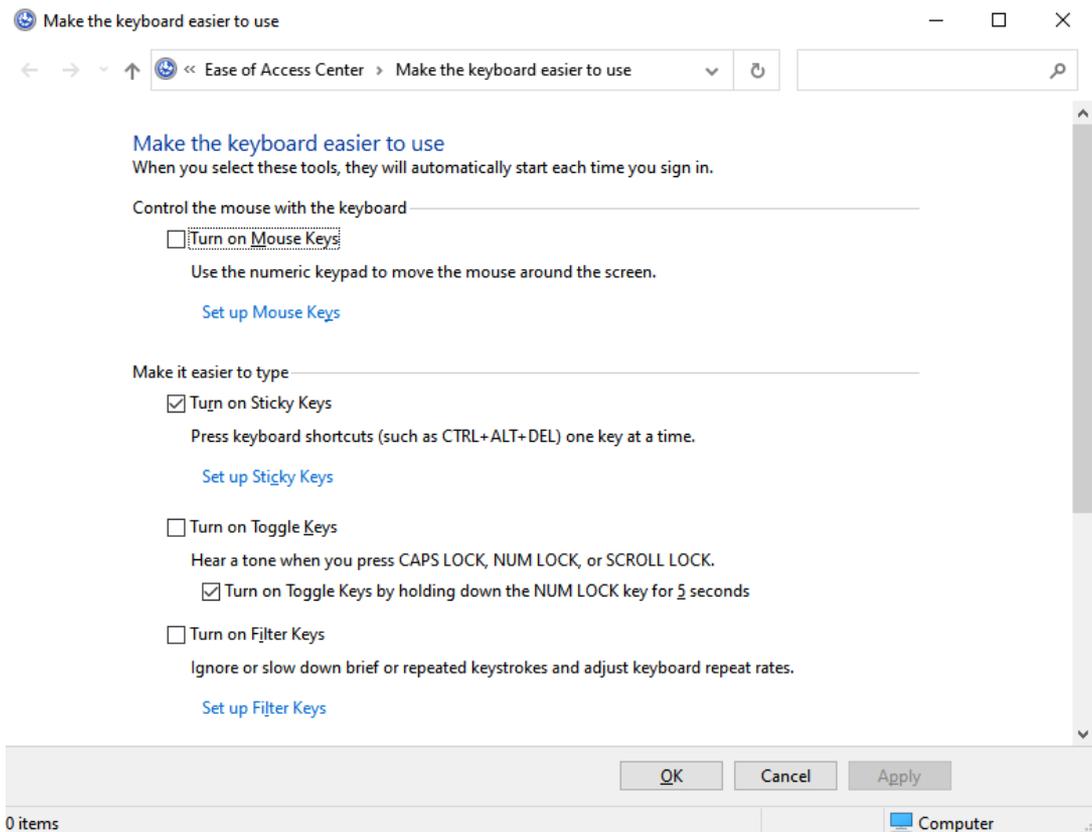
# DVORAK keyboard layout

~ `	! 1	@ 2	# 3	\$ 4	% 5	^ 6	& 7	* 8	( 9	) 0	{ [	} ]	← Backspace
Tab ↔	" '	< ,	> .	P	Y	F	G	C	R	L	? /	+ =	 \
Caps Lock ↑	A	O	E	U	I	D	H	T	N	S	- _	Enter ↵	
Shift ↑	:	Q	J	K	X	B	M	W	V	Z	Shift ↑		
Ctrl	Win Key	Alt							Alt Gr	Win Key	Menu	Ctrl	

# DVORAK keyboard layout



# Ease of Access Center: Stick keys



Make the keyboard easier to use

Make the keyboard easier to use

When you select these tools, they will automatically start each time you sign in.

Control the mouse with the keyboard

Turn on Mouse Keys

Use the numeric keypad to move the mouse around the screen.

[Set up Mouse Keys](#)

Make it easier to type

Turn on Sticky Keys

Press keyboard shortcuts (such as CTRL+ALT+DEL) one key at a time.

[Set up Sticky Keys](#)

Turn on Toggle Keys

Hear a tone when you press CAPS LOCK, NUM LOCK, or SCROLL LOCK.

Turn on Toggle Keys by holding down the NUM LOCK key for 5 seconds

Turn on Filter Keys

Ignore or slow down brief or repeated keystrokes and adjust keyboard repeat rates.

[Set up Filter Keys](#)

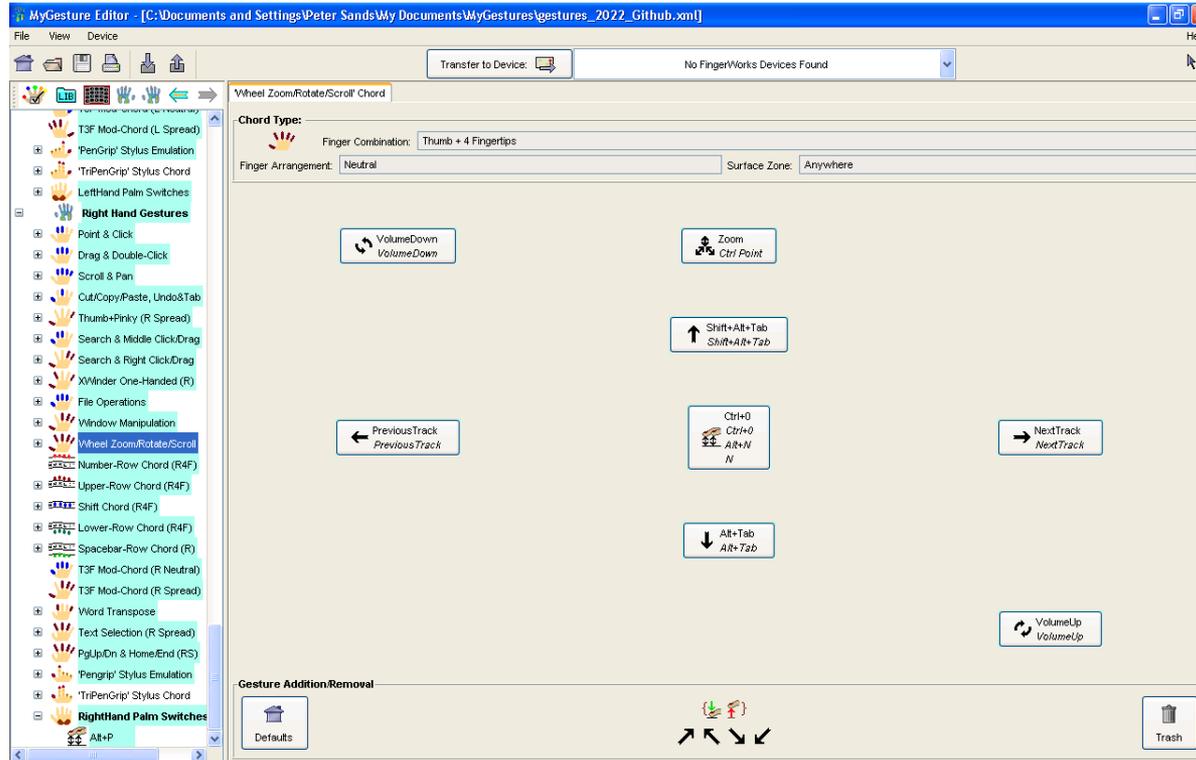
OK Cancel Apply

0 items Computer



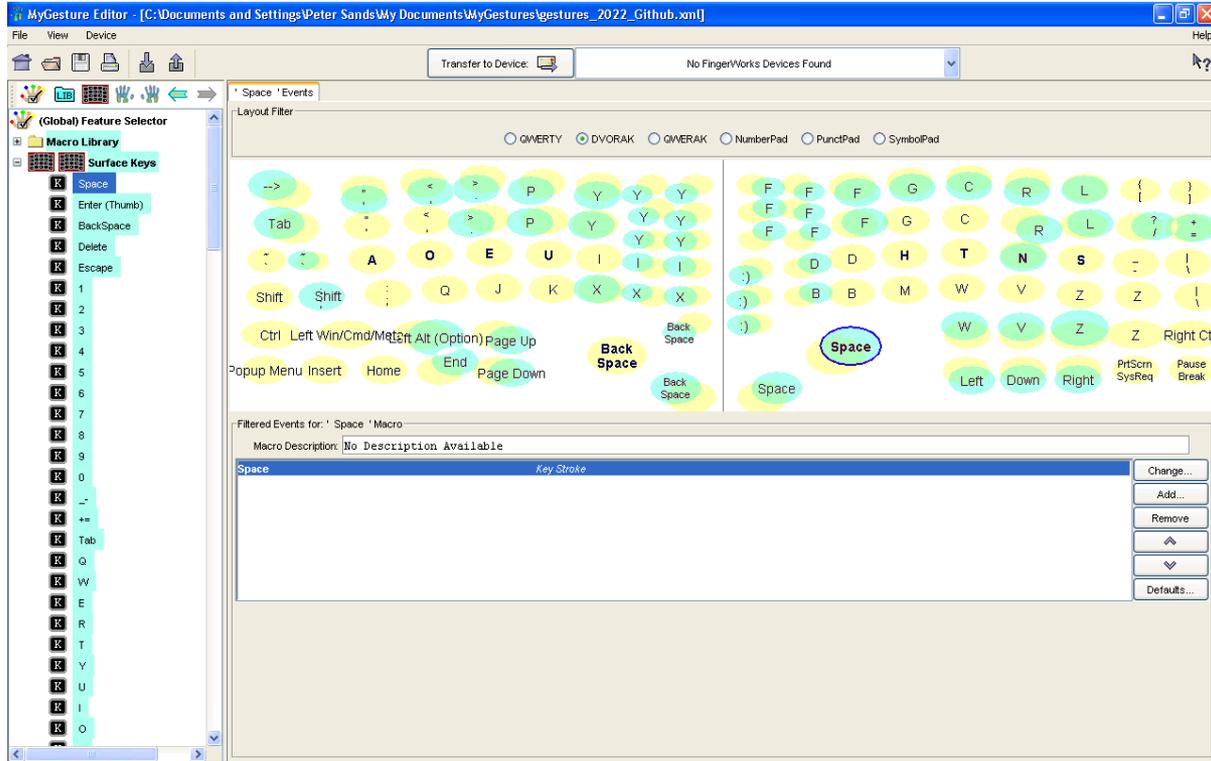
# Multitouch Gestures

# Sound volume gesture vs mouse

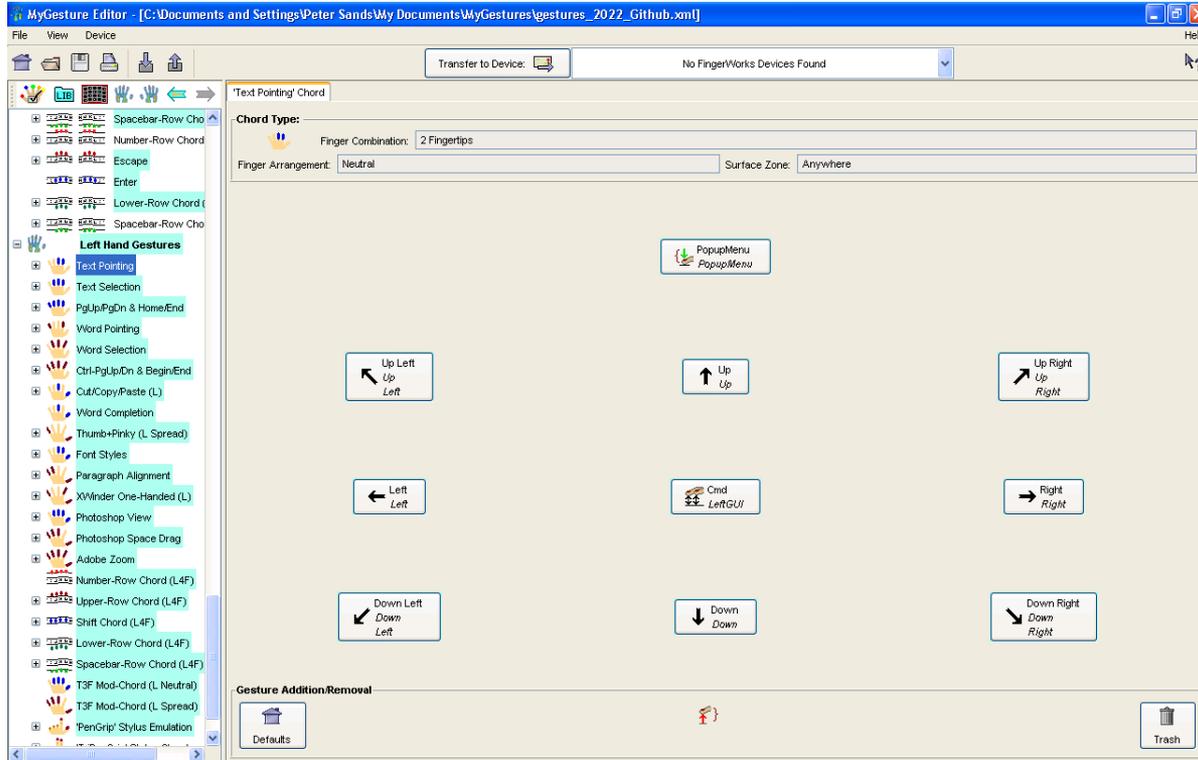


# Gesture Editor

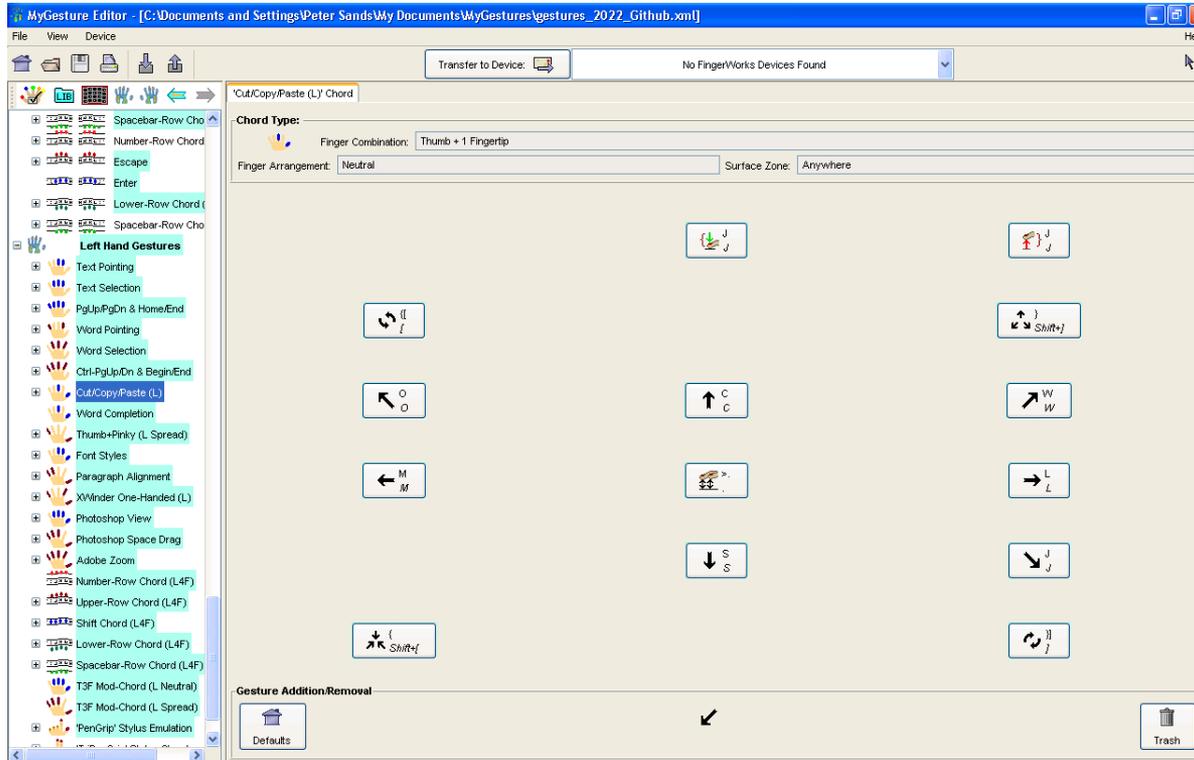
## Editable keyboard layout



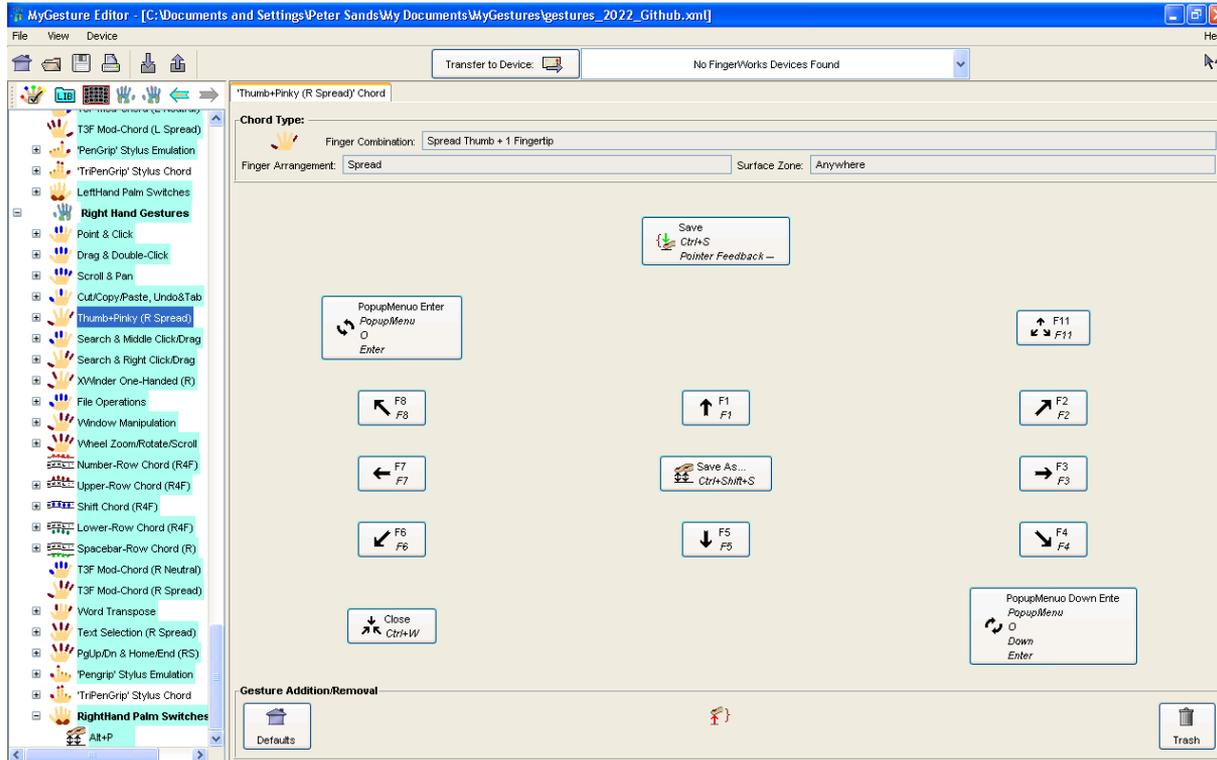
# Arrow keys



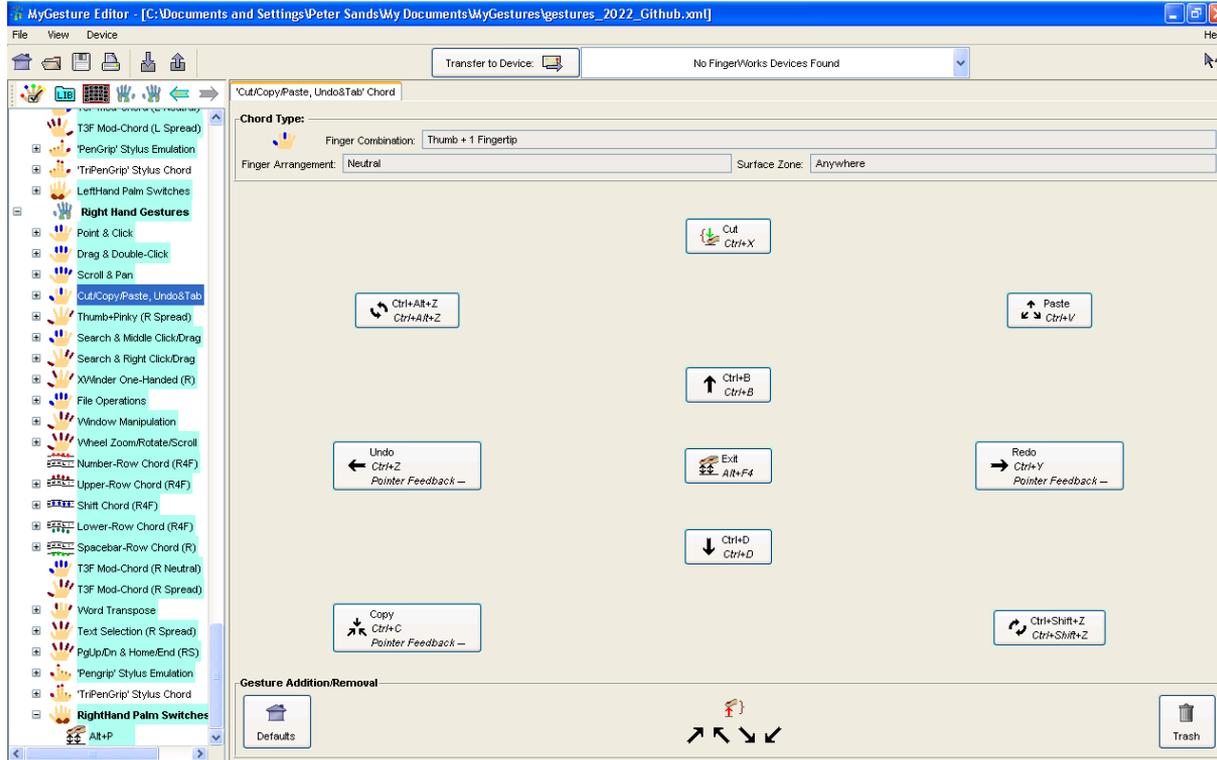
# Photoshop shortcuts



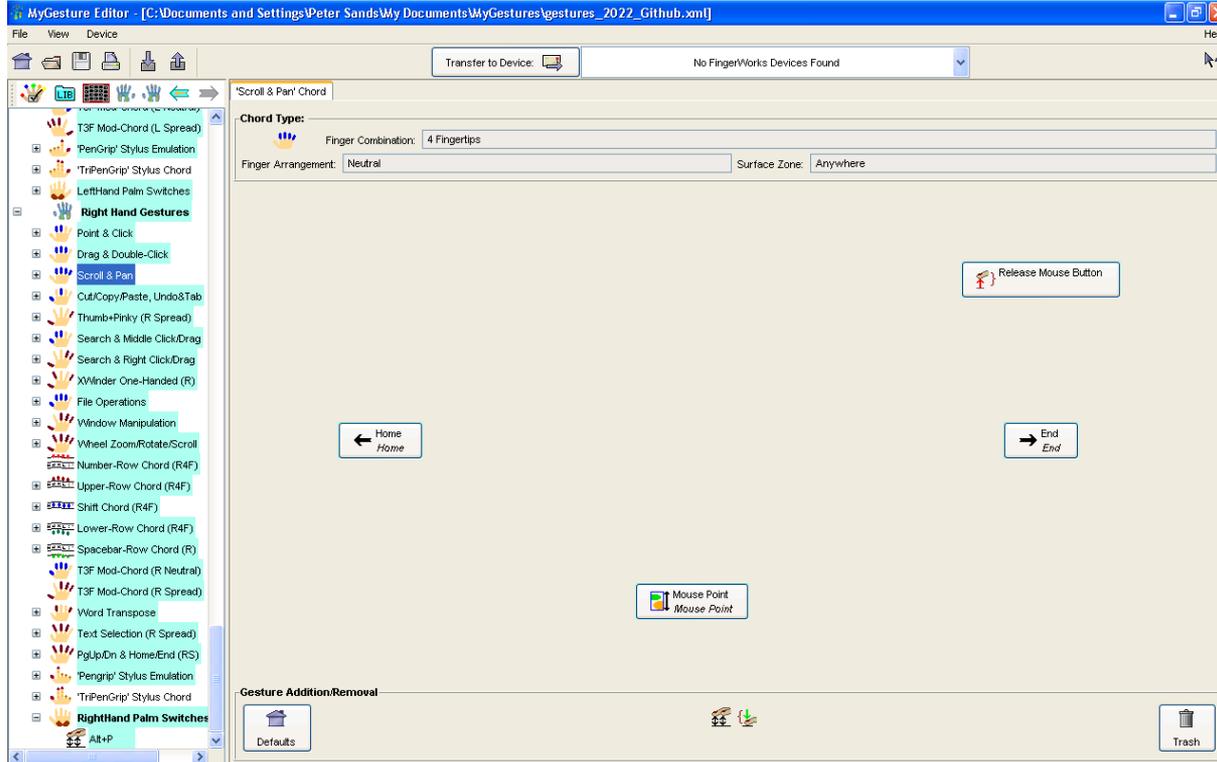
# Save gesture



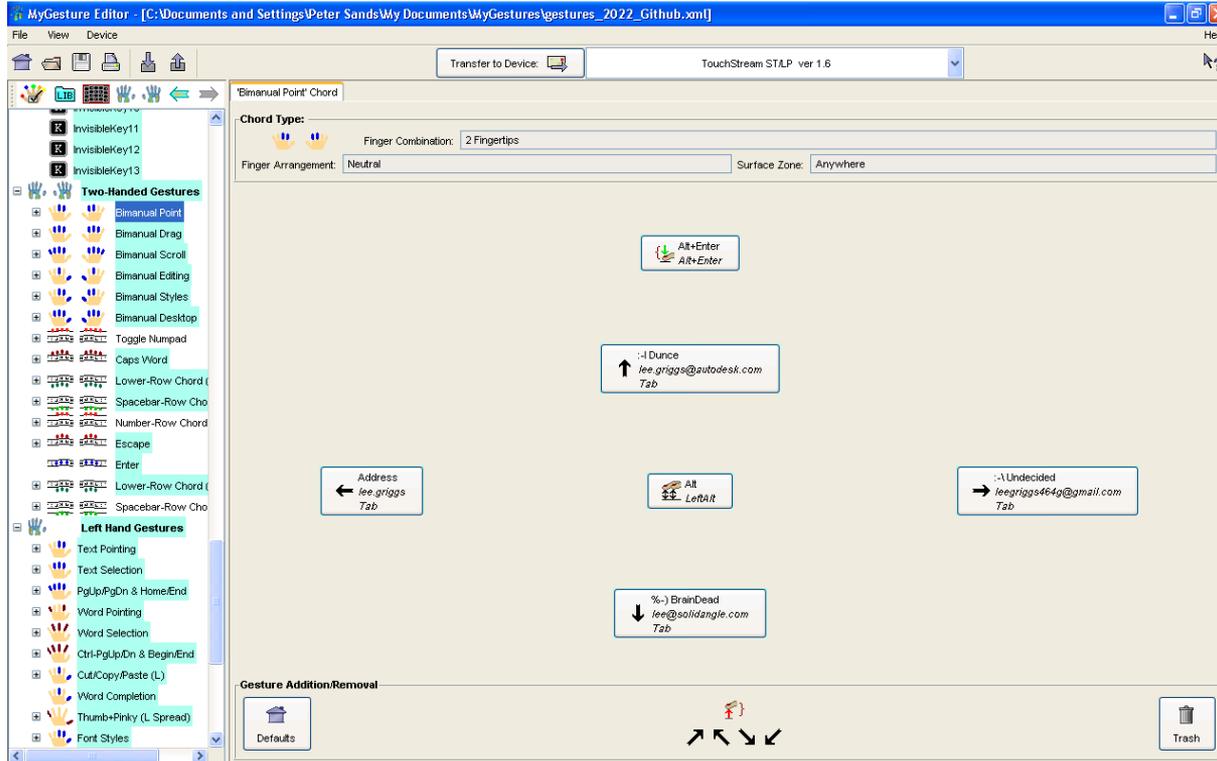
# Close/Quit gesture (Alt+F4)



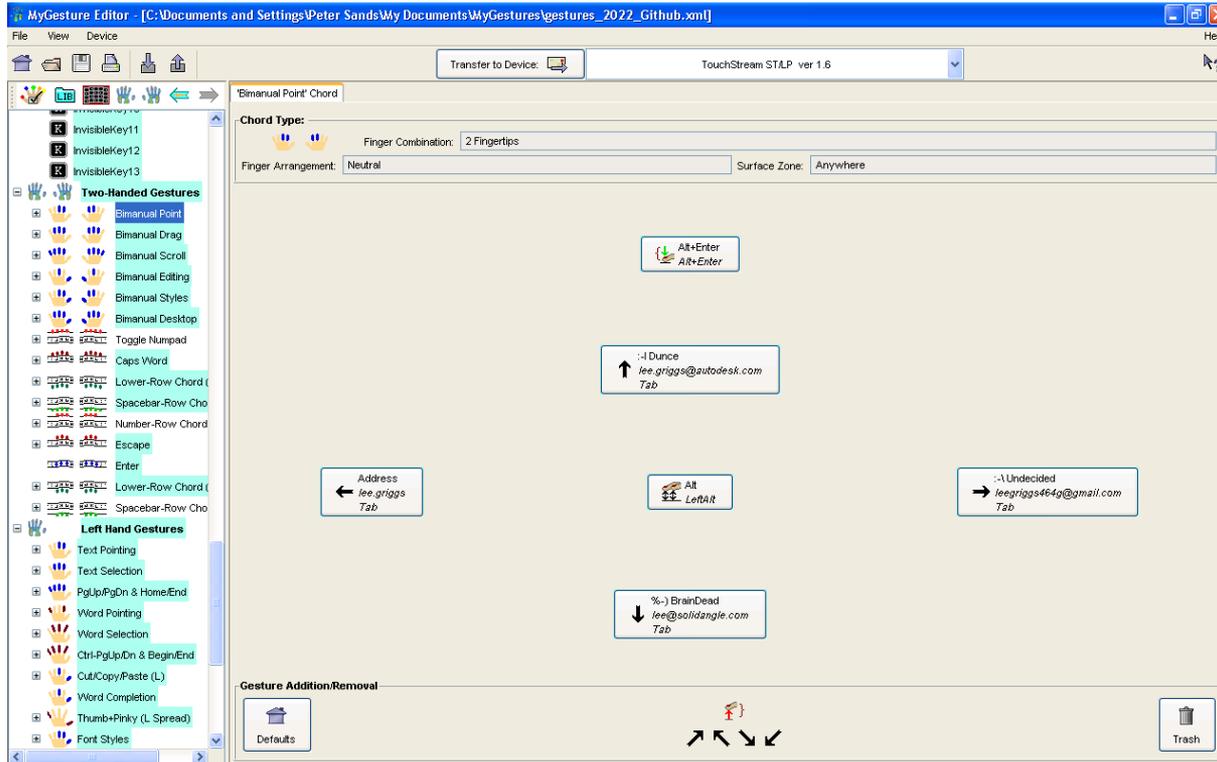
# Home/End: Maya timeline (begin/end)

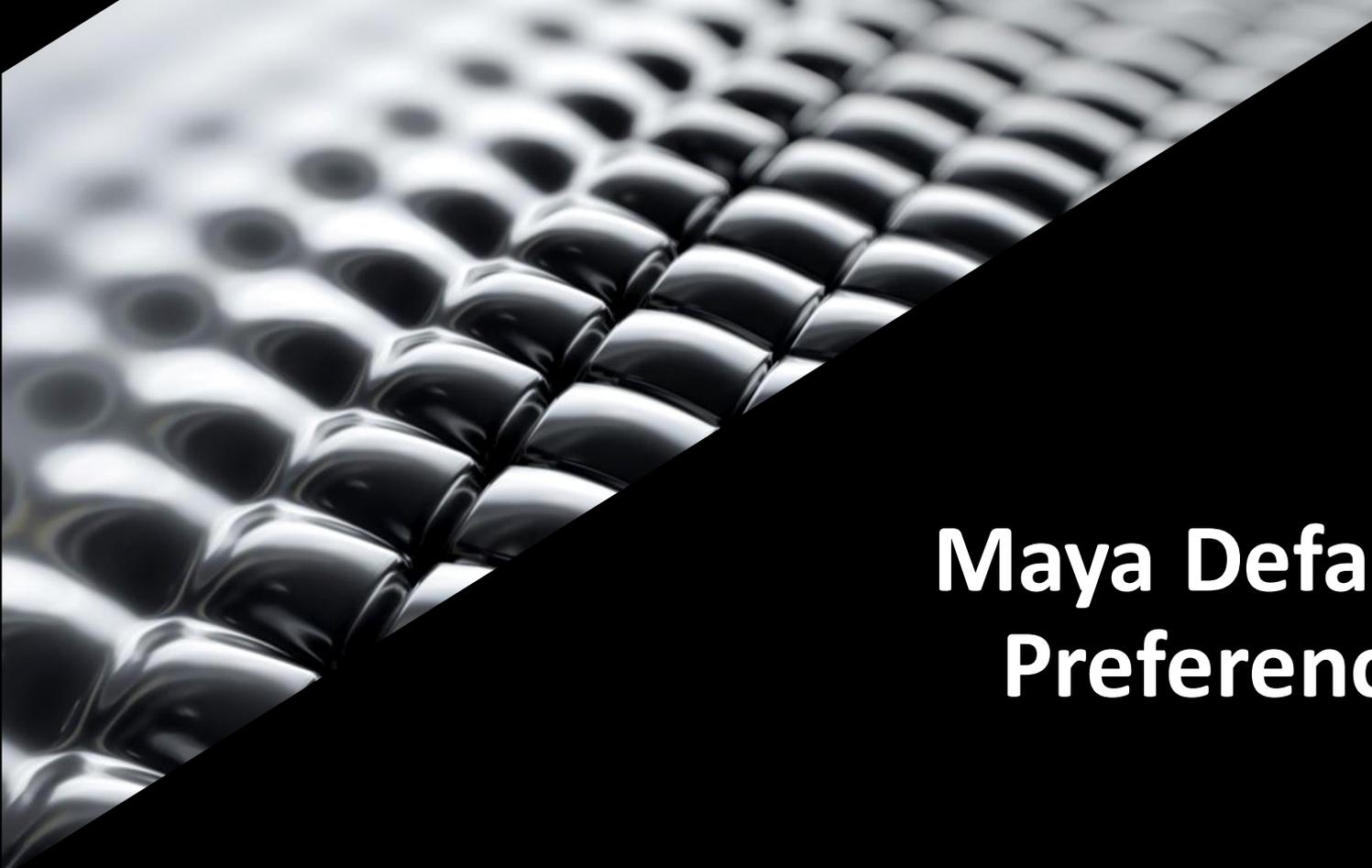


# Emails/passwords text macros



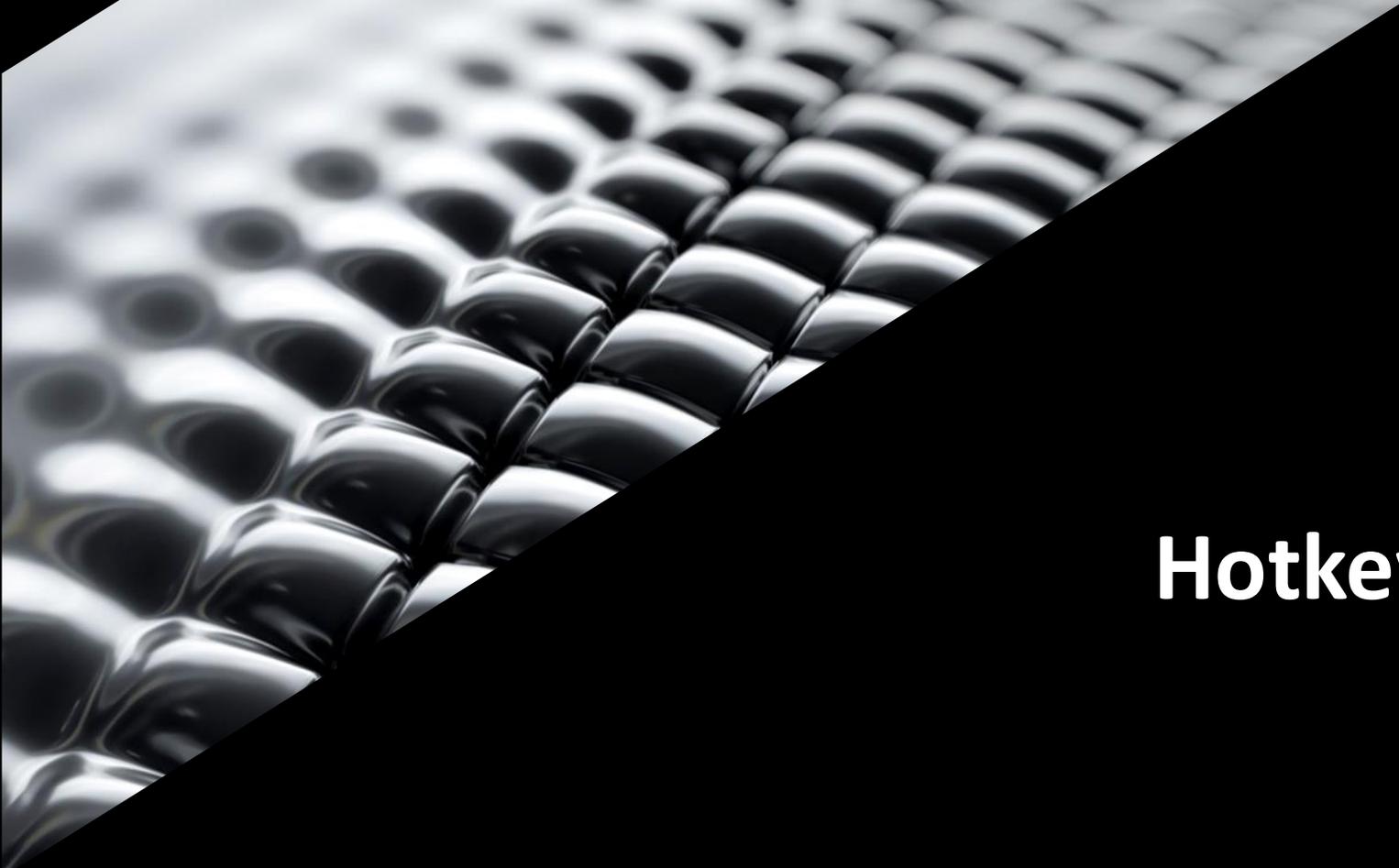
# Cycle Tabs: Internet browser tabs





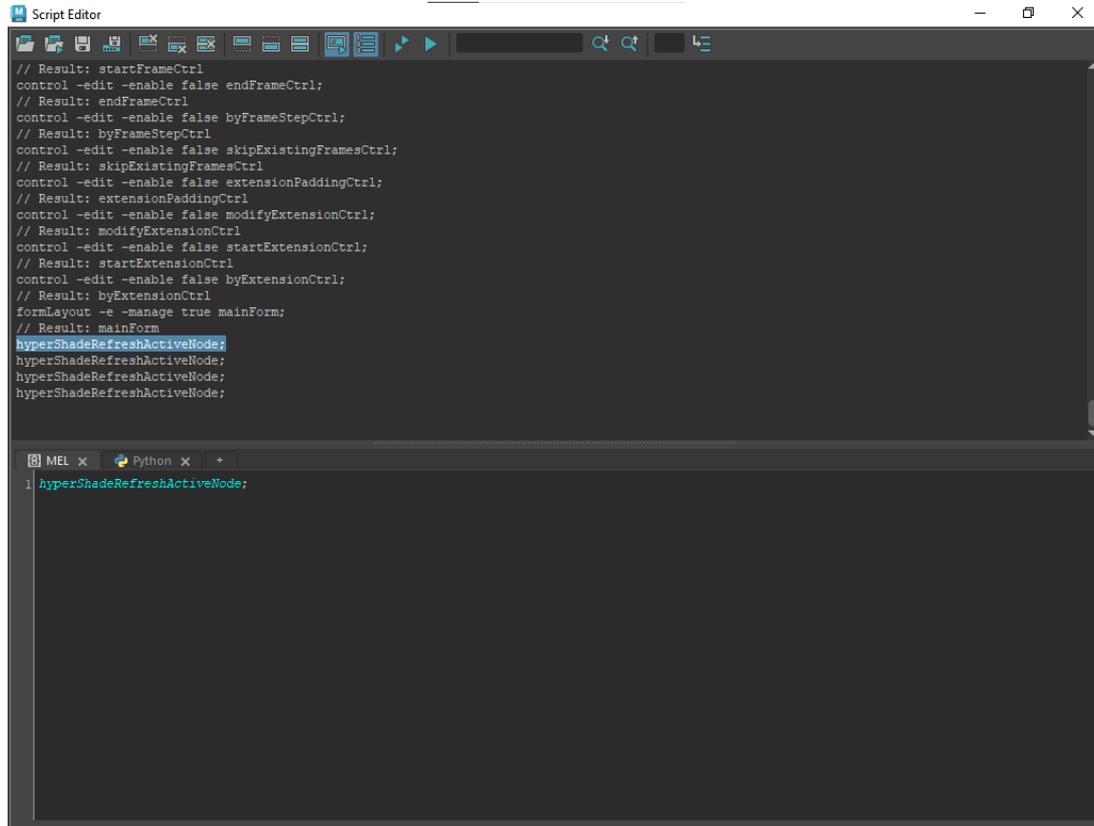
# Maya Default Preferences





# Hotkeys

# Script Editor



The image shows a screenshot of the Autodesk Script Editor window. The window title is "Script Editor". The main area contains MEL code with several lines highlighted in blue. The code includes comments for various control and extension functions, followed by a form layout command and a series of hyperShadeRefreshActiveNode commands. A bottom panel shows a console with the command "hyperShadeRefreshActiveNode;" entered.

```
// Result: startFrameCtrl
control -edit -enable false endFrameCtrl;
// Result: endFrameCtrl
// Result: byFrameStepCtrl
control -edit -enable false skipExistingFramesCtrl;
// Result: skipExistingFramesCtrl
control -edit -enable false extensionPaddingCtrl;
// Result: extensionPaddingCtrl
control -edit -enable false modifyExtensionCtrl;
// Result: modifyExtensionCtrl
control -edit -enable false startExtensionCtrl;
// Result: startExtensionCtrl
control -edit -enable false byExtensionCtrl;
// Result: byExtensionCtrl
formLayout -e -manage true mainForm;
// Result: mainForm
hyperShadeRefreshActiveNode;
hyperShadeRefreshActiveNode;
hyperShadeRefreshActiveNode;
hyperShadeRefreshActiveNode;
```

MEL x Python x +

```
1 hyperShadeRefreshActiveNode;
```

# Example hotkey

Hotkey Set: Maya 2022

Edit Hotkeys For: Custom Scripts

Application Command	Runtime Command	Hotkey
▼ Custom Scripts		
Hypershade Release	Hypershade_release_	Return

Search By: Hotkey

Return

**i** To assign or edit a Hotkey:  
1. Select the "Edit Hotkeys for" option and select the desired hotkey category.  
2. Find the desired Application Command or Runtime command in the list (or use Search).  
3. Click on the command and enter your hotkey shortcut.

Save Save and Close

Keyboard Runtime Command Editor

New Edit Delete

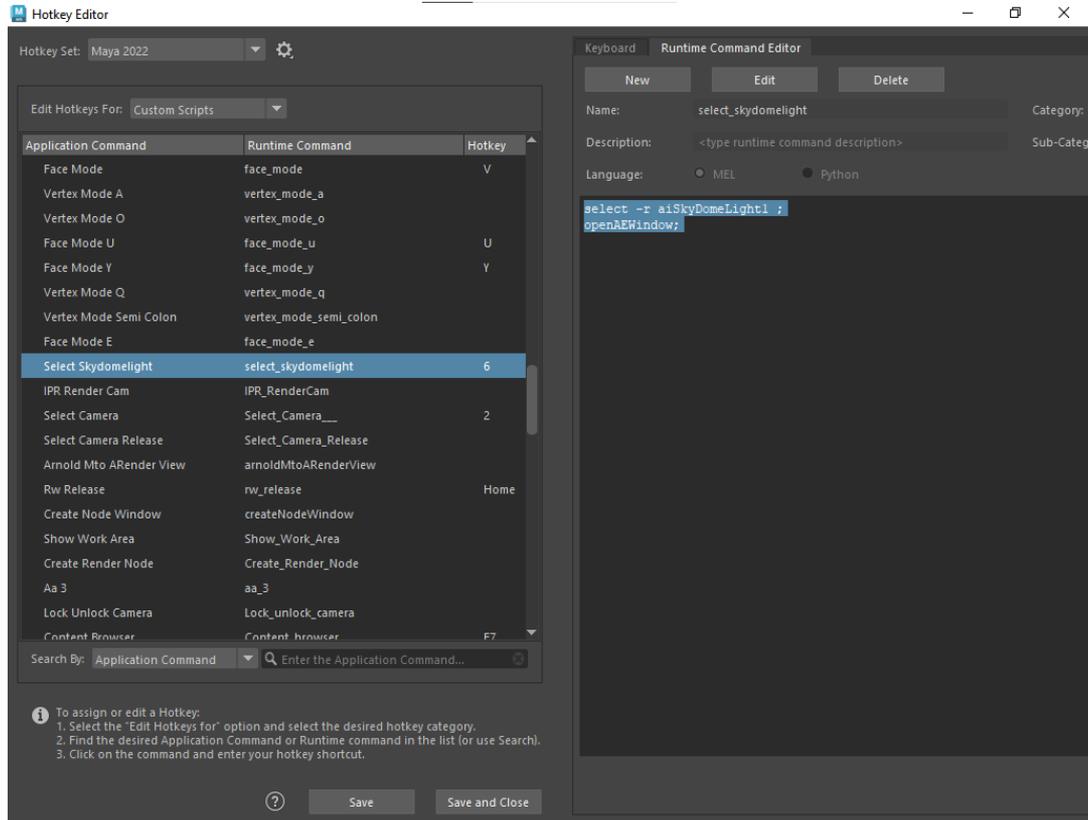
Name: Hypershade\_release\_ Category:

Description: <type runtime command description> Sub-Categ

Language:  MEL  Python

```
setNamePanelLayout "Hypershade";
hyperShadePanelMenuCommand("hyperShadePanel", "mediumIcons");
hyperShadePanelMenuCommand("hyperShadePanel", "showTopAndBottomTabs");
hyperShadePanelGraphCommand("hyperShadePanel", "showUpAndDownstream");
hyperShadePanelGraphCommand("hyperShadePanel", "graphMaterials");
global string $gHypershadeNodeEditor;
nodeEditor -edit -unParent $gHypershadeNodeEditor;
hyperShadePanelGraphCommand("hyperShadePanel", "showUpAndDownstream");
hyperShadePanelGraphCommand("hyperShadePanel", "showUpAndDownstream");
hyperShadePanelGraphCommand("hyperShadePanel", "graphMaterials");
setAllMainWindowComponentsVisible 0;
openAEWindow;
ShowShadingGroupAttributeEditor;
nodeEditor -edit -parent "hyperShadePaneldockStation|nodeEditorFor"
```

# Selecting objects (lights & cameras)

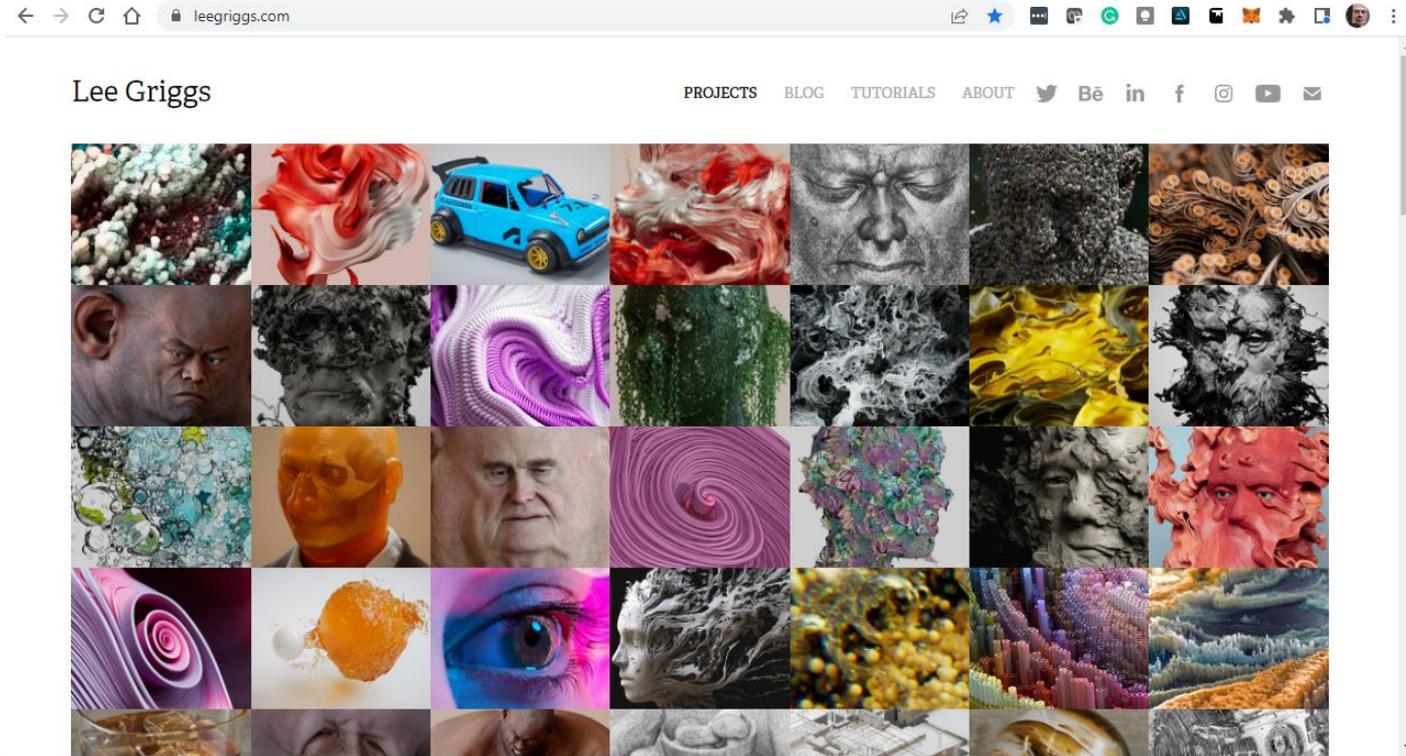




# What have we learned?

- RSI is far easier to prevent than cure through good posture, breaks, stretching and exercise, etc.
- The keyboard layout can be changed to be more efficient for touch typing (DVORAK).
- Sticky Keys can help prevent awkward hand movements that can lead to RSI.
- Multitouch technology is a much more efficient input method than the traditional keyboard and mouse.
- We can adapt our software (Maya) through keyboard shortcuts (hotkeys) so that we can work faster and more efficient which in turn helps to prevent RSI.

# www.leeigriggs.com



# www.arnold-rendering.com

The screenshot shows a web browser displaying the Arnold Rendering Blog. The browser's address bar shows the URL `arnold-rendering.com`. The page features a dark navigation bar with a WordPress logo, "My Site", and "Reader" buttons. A "Write" button is visible in the top right corner. The main header area has a background of colorful, overlapping circles and displays the text "Arnold Rendering Blog". Below this is a light green navigation menu with links for "Home", "Arnold User Guide", "Arnold Community", "Arnold Support", "Arnold Renderer", "leegriggs.com", and "About", along with a search icon. A secondary link "Foundation NFT" is located below the main menu. The main content area features a large article title "LOVE DEATH + ROBOTS VOLUME 3" with a sub-header "Many great examples using #arnoldrenderer including the excellent Jibaro." and metadata including the date "May 25, 2022", category "Uncategorized", and an "Edit" link. On the right side, there is a "Follow me on Twitter" widget showing a tweet from Lee Griggs (@LeeGriggs) about "Bear Groom" via @artstationhq, with the hashtag #arnoldrenderer. A "Customize" button is located at the bottom of the widget. A video player is partially visible at the bottom of the page.

[arnoldrenderer.com/arnold/download/](http://arnoldrenderer.com/arnold/download/)

[docs.arnoldrenderer.com](http://docs.arnoldrenderer.com)

[@arnoldrenderer](#)

[youtube.com/arnoldrenderer](http://youtube.com/arnoldrenderer)

[autodesk.com/autodesk-university](http://autodesk.com/autodesk-university)

