# MAY 9 PROBUIDE

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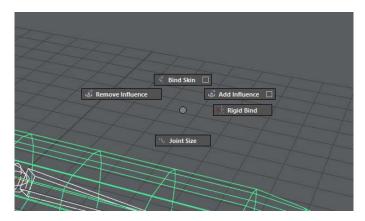
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# What is May9 Pro

May9 Pro is plug-in aim to offer an alternative user experience for Autodesk Maya designed to improve the daily workflow and maximize learning.

The concept of  $May9\ Pro$  is streamline useful commands into a single keyboard button (Z), by predicting them from the context. For example, if you have in selection a mesh and a joint by pressing  $Z + Left\ Mouse\ Button\ (MMB\ from\ now)$  it's appear the follow  $Marking\ Menu\ (MM\ form\ now)$ :



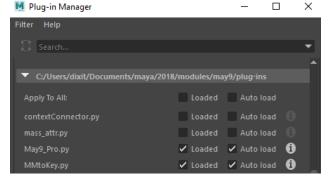
In addition to the contextual workflow describe above, *May9 Pro* offer <u>custom preferences</u>, <u>layouts</u>, <u>contextual hotkeys</u> and <u>standard hotkeys</u>.

# Installation (video)

- 1) If is open close Maya
- 2) Copy folder 2017 or 2018 of this archive in
  - a. Windows: \Users\<username>\Documents\maya\
  - b. Mac OS: /Users/<username>/Library/Preferences/Autodesk/maya/
  - c. Linux: ~<username>/maya/
- 3) Do one of the following action
  - a. Run source May9.mel



b. Or enable under Windows > Settings/Preferences > Plug-in Manager: May9\_Pro.py and MMtoKey.py



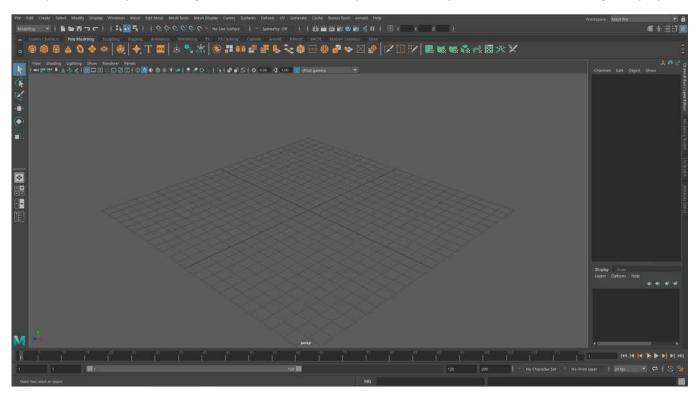
# Note for May9 Pro 2.0 users

If a previous version of *May9 Pro* is already installed on your system, to avoid conflict is recommended clean up the preferences before install version 3.0.

# Basic usage

# May9 Pro Workspace

The May9 Pro Workspace is designed to maximize the Viewport area and optimize workflow on a single display.

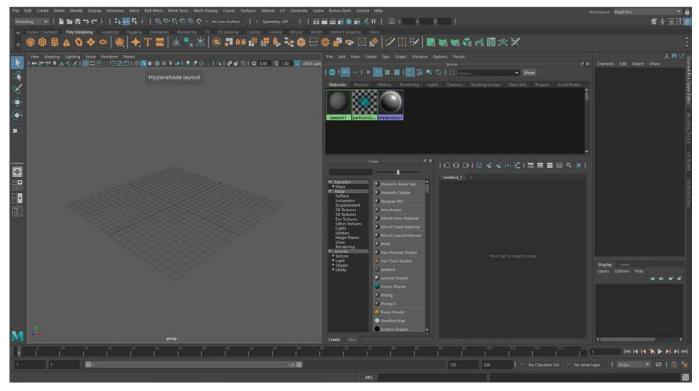


#### Note

The feature set of May9 Pro work only inside of it's workspace.

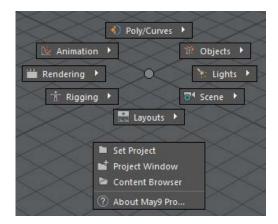
# May9 Pro Layouts

The May9 Pro Layouts are designed to be integrated in the May9 Pro Workspace, for open one of the ten Layout available just use a Hotkey from ALT + 1 to ALT + 0, or use the All MM:



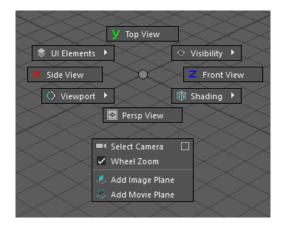
#### All MM

The All MM (menu\_All\_MM.mel) is the foundation of May9 Pro and available by pressing Z + Middle Mouse Button (from now MMB):



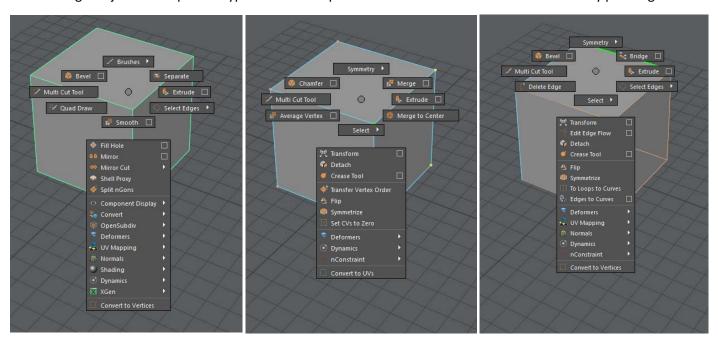
#### Maya Window MM

The Maya Window MM (menu\_MayaWindow\_MM.mel), is available over the Viewport and there isn't selection active by press Z + LMB:



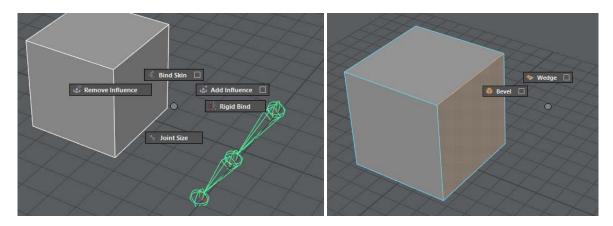
# Contextual single selection MM

When a single object or component type is selected is possible enable the relative contextual MM by pressing Z + LMB:



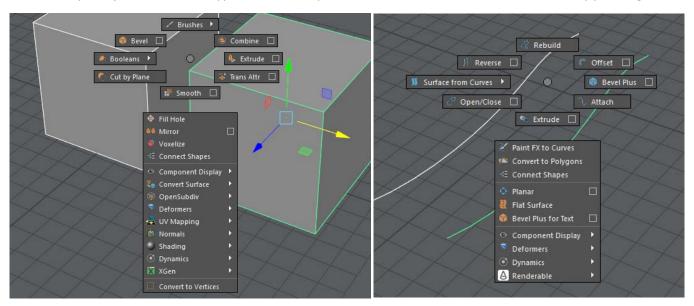
#### Contextual multi selection MM

When a multiple object type or component type is selected is possible enable the relative contextual MM by pressing Z + LMB:



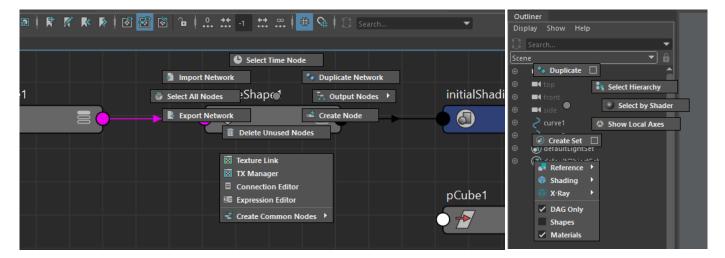
# Contextual multi selection of the same object type MM

When a multiple object of the same type is selected is possible enable the relative contextual MM by pressing Z + LMB:



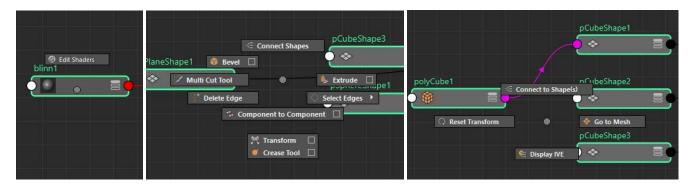
#### Contextual panel MM

When the mouse is over a panel is possible enable the relative contextual MM by pressing Z + LMB:



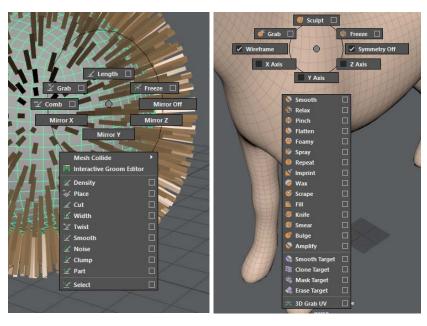
#### Contextual node selection in Node Editor MM

When a single node, a combination of the same type nodes or a combination of different type nodes are selected in the Node Editor is possible enable the relative contextual MM by pressing Z + LMB:



#### Contextual Tool MM

When a supported Tool is selected, is possible enable the relative contextual MM by pressing Z + MMB:



These are the tool supported by Contextual Tool MM: 3D Paint tool, Paint Attribute, Paint Skin Tool, Legacy Artisan Sculpt tool, Create Particle tool, Paint FX tool, Grease Pencil tool, Multi Cut tool, Quad Draw tool, Poly Crease tool, Sculpt tools, XGen Groom Paint tools, Create Particle tool and UV Brushes.

#### Contextual single selection Hotkey

If a single object or component type is selected is possible enable the relative contextual Hotkey by pressing and release Z.

# Contextual multi selection of the same object type Hotkey

If a multiple object of the same type is selected is possible enable the relative contextual Hotkey by pressing and release Z.

#### Contextual multi selection of different object type Hotkey

If a multiple object type or component type is selected is enable the relative contextual Hotkey by pressing and release Z.

#### Contextual panel Hotkey

If the mouse is over a panel is possible enable the relative contextual Hotkey by pressing and release Z.

# Preferences change

The flowing is the Autodesk Maya preferences changed in May9 Pro:

- Legacy Subdivision Surface exposed (only Maya 2017)
- Membrane Deformer exposed
- Legacy Mirror Cut tool exposed
- Double variable warning is disable
- Custom Hypershade layout
- In Status Line is hidden the IPM button and expose Input Field area
- Hidden attribute connections exposed
- Hotbox have no transparency

# **Custom Hotkeys**

```
CTRL + Enter = Delete History and Freeze Transform
SHIFT + ALT + F = Freeze Transformation
SHIFT + ALT + R = Reset Transformations
SHIFT + ALT + C = Center Pivot
SHIFT + ALT + Z = Zero Transformations (move objects to world center)
SHIFT + ALT + M = Match Transform
SHIFT + ALT + W = Toggle Wireframe on Shaded
SHIFT + ALT + Space = Playback toggle
CTRL + ALT + R = Start IPR or Arnold Render View
CTRL + ALT + 0 = Edit and Graph Shader Based on Selection
CTRL + ALT + 8 = Paint Effects Panel
CTRL + ALT + X = Reverse to save
CTRL + SHIFT + ALT + C = Copy selection to clipboard
CTRL + SHIFT + ALT + V = Paste selection to clipboard
CTRL + SHIFT + ALT + S = Save selection in to a Set
CTRL + SHIFT + ALT + D = Delete Static Channels
CTRL + SHIFT + ALT + M = Toggle Shelf
CTRL + SHIFT + ALT + R = Toggle Resolution Gate
CTRL + SHIFT + ALT + Z = MMtoKey Manager
CTRL + `= Show the last operation in AE
CTRL + F = Ignore the child and frame only the selected object
CTRL + P = Parent and position
CTRL + J = Context Connector
CTRL + K = Massive Attribute Editor
CTRL + L = List of Input Operation is mapped
ALT + 1 = Set Layout Single Perspective/Four View
ALT + 2 = Set Layout Node Editor
ALT + 3 = Set Layout UV Texture Editor
ALT + 4 = Set Layout Graph Editor
ALT + 5 = Set Layout Shape/Pose Editor
ALT + 6 = Set Layout Reference Editor
ALT + 7 = Set Layout Component Editor
ALT + 8 = Set Layout Relationship Editor
ALT + 9 = Set Layout Dynamic Relationship Editor
ALT + 0 = Set Layout Hypershade
```

```
ALT + C = Open Channel Box or toggle it if docked
ALT + A = Open Attribute Editor or toggle it if docked
ALT + M = Open Modelling Toolkit or toggle it if docked
ALT + U = Open UV Toolkit or toggle it if docked (CMD + U on OS X)
ALT + O = Open Outliner or toggle it if docked
ALT + T = Open Tools Preference Settings or toggle it if docked
ALT + \ = Reset May9 Pro Workspace
ALT + L = Color Picker
ALT + G = Toggle grid
ALT + K = Toggle Color Management
ALT + Enter = Toggle perspective to orthographic camera
SHIFT + UP = Side View
SHIFT + RIGHT = Front View
SHIFT + DOWN = Top View
SHIFT + LEFT = Persp View
SHIFT + T = Assign shader if an object is selected or open create node window if not
~ = Orient Manipulators Toggle
K + Drag = Smooth playback mode
CMD + Space = Toggle Full Screen (Mac OS only)
Changed hotkeys
CTRL + ALT + D = Toggle Displacement
CTRL + ALT + ~ = SmoothingDisplayShowBoth
CTRL + ALT + `= SmoothingDisplayToggle
ALT + - = ToggleColorFeedback
```

ALT + I = Toggle Wireframe in Artisan

SHIFT + N = Full Hotbox Display

ALT + P = Color Picker

# **Custom Script**

Under the hood of *May9 Pro* there are hundreds of MEL scripts that's support the contextual workflow, but there's also some ones that add new features to *Autodesk Maya*.

# da\_intPlay (video)

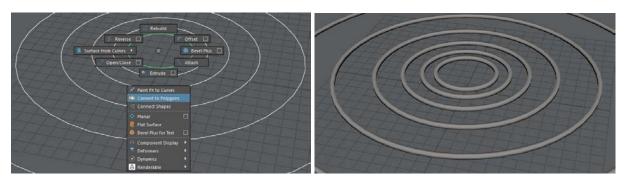
This script adds the interactive play button directly to Time Slider



# da curveToPoly (video)

This script makes possible the conversion of curves in polygons:

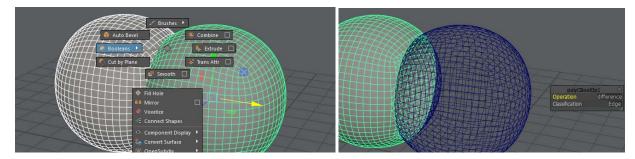
- 1. Select a curve or multiple curves
- 2. Z + LMB > Convert to Polygons



# da\_interactiveBooleans (video)

This script makes the Polygonal Boolean process more interactive:

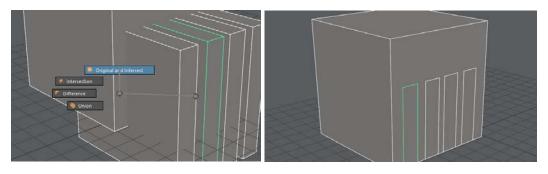
- 1. Select two or more polygons objects
- 2. Z + LMB > Booleans



# da BooleanFullIntersect (video)

This script makes a full intersect, so this execute a mesh subtraction but maintain subtracted part as separate object:

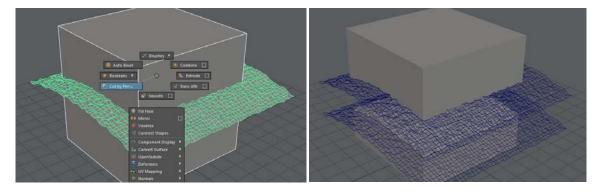
- 1. Select first the main object and after the cutters ones
- 2. Z + LMB > Booleans > Original and Intersect



# da PlaneCutter (video)

This script cut a mesh by using a flat mesh, this can be useful for simulate surface cracks:

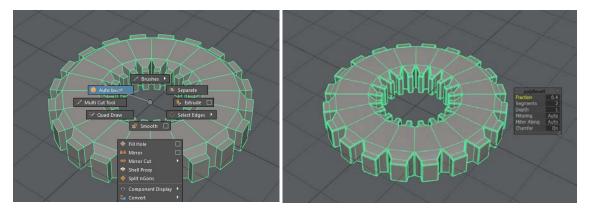
- 1. Select first the main object and after the cutter ones
- 2. Z + LMB > Cut by Plane
- 3. Select the single or double operator
- 4. Move the cutter or the cutters plane



# da AutoBevel (video)

This script analyses the angle between faces and try to add a Bevel node only on needed edges:

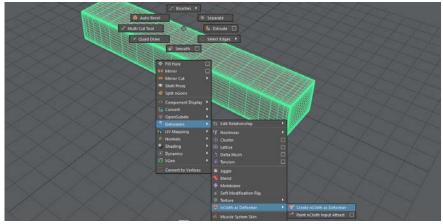
- 1. Select a Polygon
- 2. Z + LMB > Auto Bevel



# da ClothAsDeformer (video)

This script set up the current mesh to be deformed by nCloth solver, this can be useful for simulate character self-collision skin or muscle dynamics:

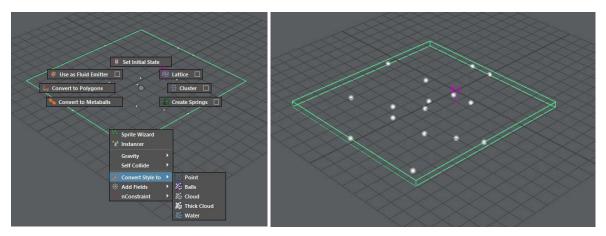
- 1. Select the polygons to deform, it can be the character skin
- 2. Z +LMB > Deformers >nCloth as Deformer > Create nCloth as Deformer



# da nParticleConverter (video)

This script adds the ability to convert particle to a specific type after their creation:

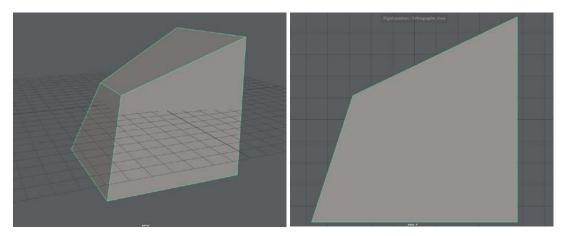
- 1. Create some particle
- 2. Z + LMB > Convert Style to



# da\_perspToggle (video)

This script converts the current persp view to the closest ortho, and vice versa:

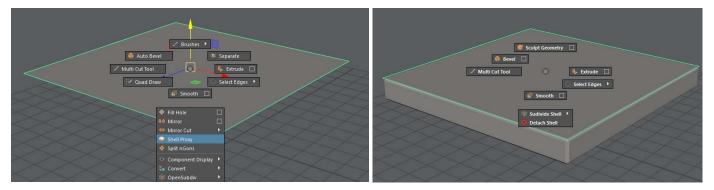
- 1. Move camera
- 2. Press ALT + Enter



# da\_shell (video)

This script emulates Shell deformer of Autodesk 3D Studio Max, by adding a thickness to flat polygons:

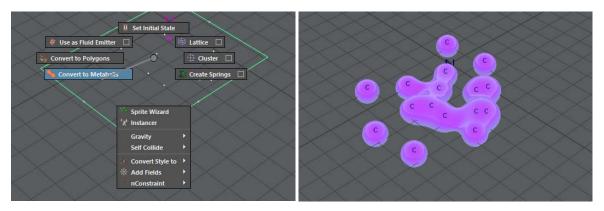
- 1. Select a flat polygon
- 2. Z + LMB > Shell Proxy
- 3. Continue to model or open tool option by using Z + LMB



# da\_ConvertToMetaballs (video)

This script converts particles to polygonal Metaballs:

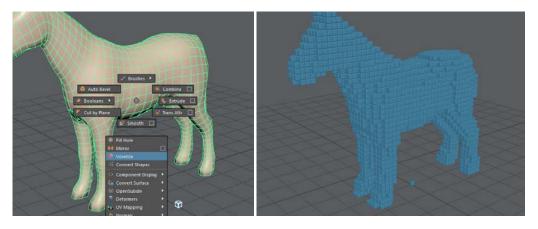
- 1. Select some particles
- 2. Z + LMB > Convert to Metaballs
- 3. Move single Metaballs by selecting relative cluster



# da\_MashVoxelizer (video)

This script use MASH to voxelize an arbitrary mesh in the volume of another mesh:

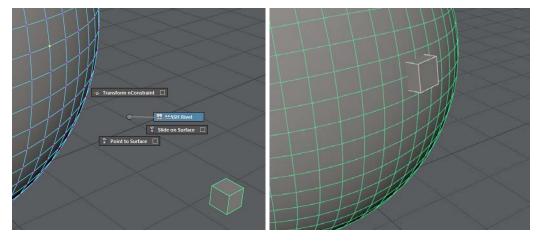
- 1) Select first the filler mesh then the volume mesh
- 2) Z + LMB > Voxelize in a Volume



# da\_RivetMash (video)

This script constraint the pivot of a polygon to a component of another polygon:

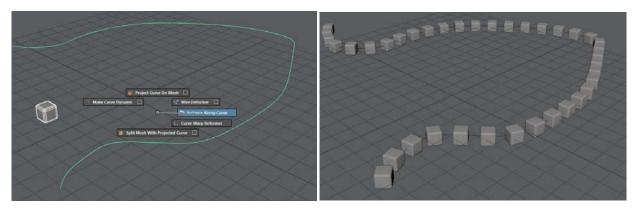
- 1) Select single or multiple components then a polygon
- 2) Z + LMB > Rivet



# da\_CurveDistributionMash (video)

This script scatter and constrain a polygonal object along a curve:

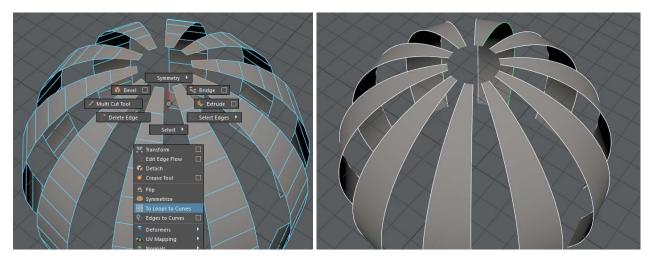
- 1) Select a polygon and then a curve
- 2) Z + LMB > Instance Along Curve



# da\_EdgeToLoopToCurve (video)

This script convert edge selection to loop and then make a batch conversion to curves, this is useful for converting polygonal hair to curve hair:

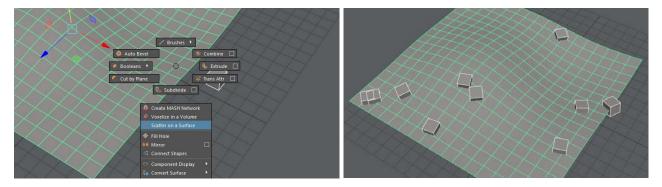
- 1) Select an edge for loop, sometimes this is easier to do in UV texture editor
- 2) Z + LMB > To Loops to Curves



# $da_SurfaceScatterMash$

This script scatter and constrain a polygonal object on a mesh:

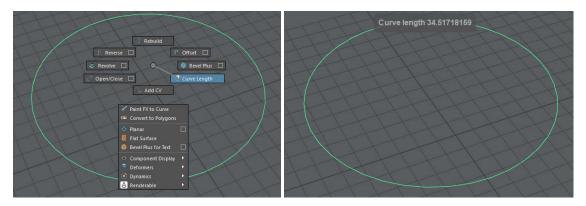
- 1) Select a mesh object then a mesh surface
- 2) Z + LMB > Scatter on a Surface



# da\_CurveLength

This script returns the length of a curve in Maya unit:

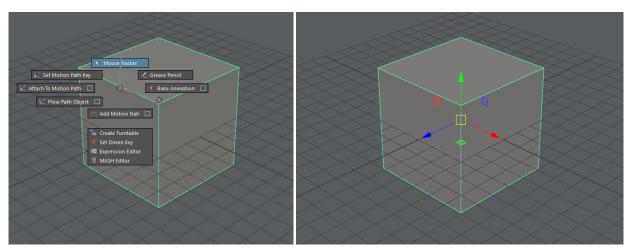
- 1) Select the curve you want to measure
- 2) Z + LMB > Curve Length



# da\_MouseTrack

This script tracks the mouse movement and create an animation:

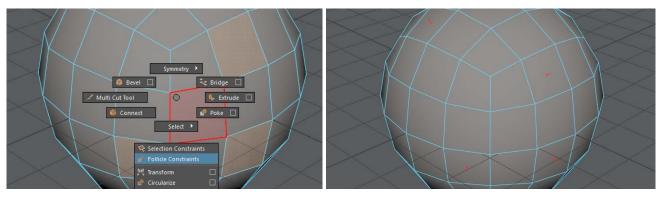
- 1) Select an object
- 2) Z + MMB > Animation > Mouse Tracker
- 3) Manipulate the object by using manipulators
- 4) Press Esc for stop the tracking



# da FacesFollicles

This script creates a follicle in the centre of selected faces:

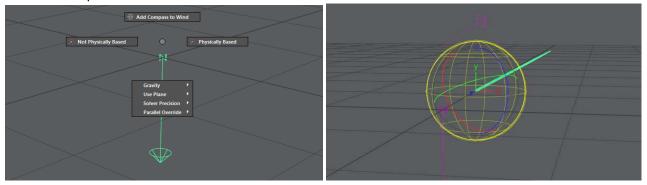
- 1) Select one or more faces
- 2) Z + LMB > Follicle Constrains



# da Compass

This script converts Euler angle into a XYZ vector, for drive wind direction in Nucleus and Air Filed:

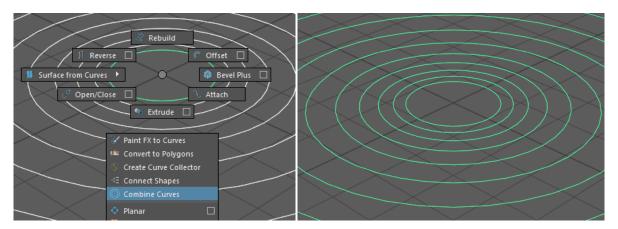
- 1) Select Nucleus icon or Air Filed icon
- 2) Z + LMB > Compass to Wind



# da\_CombineCurves

This script combines two or more curves in one transform node:

- 1) Select two or more curves
- 2) Z + LMB > Combine Curves

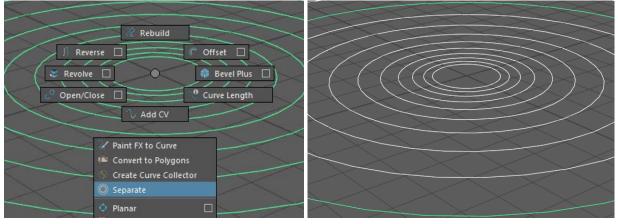


Note: do not combine already combine curves, always first separate the combined curves then combining the curves again.

# da SepareCurves

This script separate combined curves:

- 1) Select combined curves
- 2) Z + LMB > Separate Curves



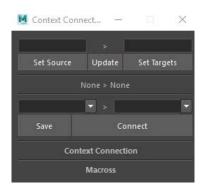
# Third-party plug-ins

May9 Pro support some of the best third-party plug-ins available, some are included other need separate install due to license.

#### Context Connector (Video)

Context Connection is an advance tool for automate and manage single and multiple node connection, enable it under Windows > Settings/Prefereces > Plug-in Manager: ContentConnectr.py

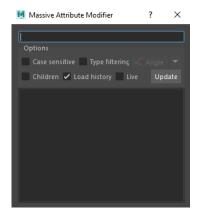
For open Context Connection UI use CTRL + J shortcut or Z + MMB > Rigging > Context Connector



#### Massive Attribute Editor

Massive Attribute Editor is an advance tool simply wrap all the common attributes between the selected objects and display them in a list, enable it under Windows > Settings/Prefereces > Plug-in Manager: mass\_attr.py

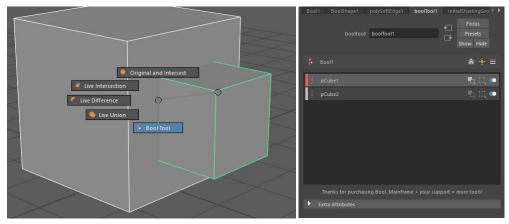
For open Massive Attribute Editor UI use CTRL + K shortcut or Z + MMB > Rigging > Massive Attribute



#### Bool (Video)

Bool is in a live boolean plug-in that's interactively adjust multiple boolean operations, is available to buy here.

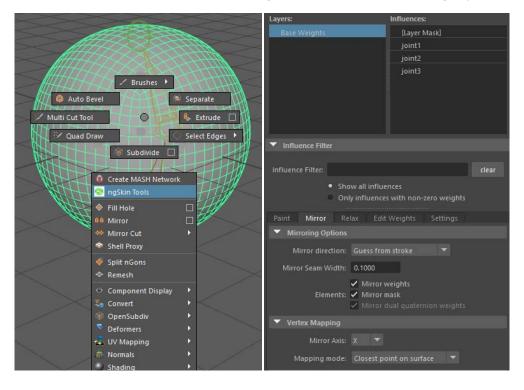
For use Bool, select two or more meshes and Z + LMB > Booleans > Bool Tool



# ngSkinTools (Video)

ngSkinTools allows flexible and artistic workflow, while providing all the necessary tools for precision, is available to download or buy <a href="here">here</a>.

For use ngSkinTools, select a skinned mesh and Z + LMB > ngSkin Tools > Initialize Skinning Layers



# Uninstall

May9 Pro do not override any of native Autodesk Maya files so for uninstall just disable the included plug-ins and set one of the standard workspace, or run this: source May9\_uninstall.mel

#### Release notes

Tested and develop on Autodesk Maya 2018 and Autodesk Maya 2017 Update 4 with MtoA 2.1.0 installed.

May9 Workspaces do not auto save, so is needed manually save the workspace changes.

# Useful links

Facebook page: <a href="mailto:fb.com/May9Prefs">fb.com/May9Prefs</a>

YouTube channel: <a href="youtube.com/c/May9">youTube.com/c/May9</a>

May9 Pro Git repository: <a href="mailto:github.com/DavideAlidosi/May9">github.com/DavideAlidosi/May9</a>

# Credits and license

May9 Pro design, scripts and preferences are made by Davide Alidosi and released under MIT license.

MMtoKey is made by Andrey Menshikov and release under a custom non-commercial license.

Context Connector is made by Pavel Korolyov licensed under MIT license.

Massive Attribute Editor is made by Mehdi Louala licensed under Creative Commons Attribution 4.0.

Bool is made by Mainframe North licensed under custom EULA.

ngSkinTools is made by Viktoras Makauskas licensed under custom license.