

MAY 9

USER GUIDE

NEXT

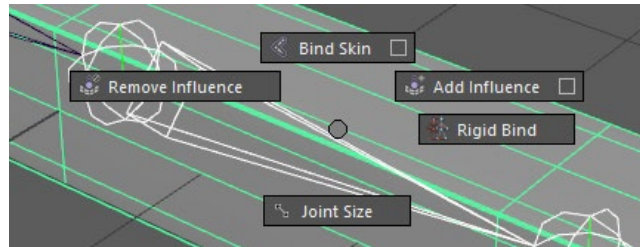
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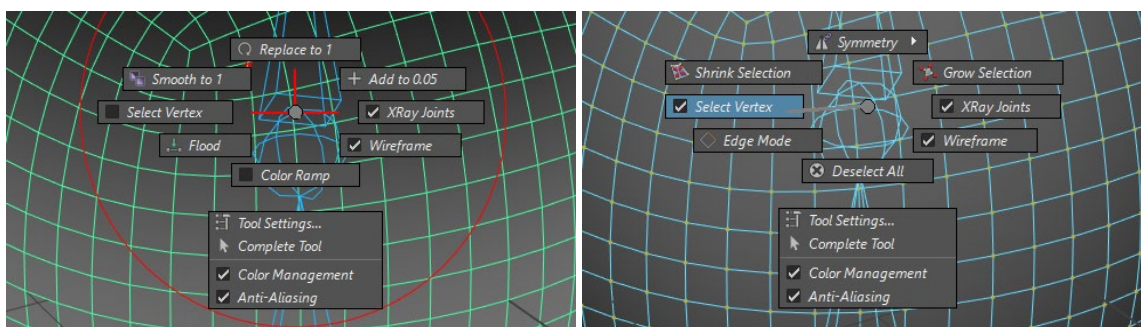
WHAT IS MAY9 NEXT

May9 Next is a plug-in aim to offer an alternative user experience for *Autodesk Maya* designed to improve the speed of daily workflow and maximize new tools learning.

May9 Next streamline the most common *Autodesk Maya* 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):



The most advanced included MMs are programmed to be polymorphic, so their design can change in base of: **selection type or size**, **UI panel**, **tool preferences** or **application preferences**.

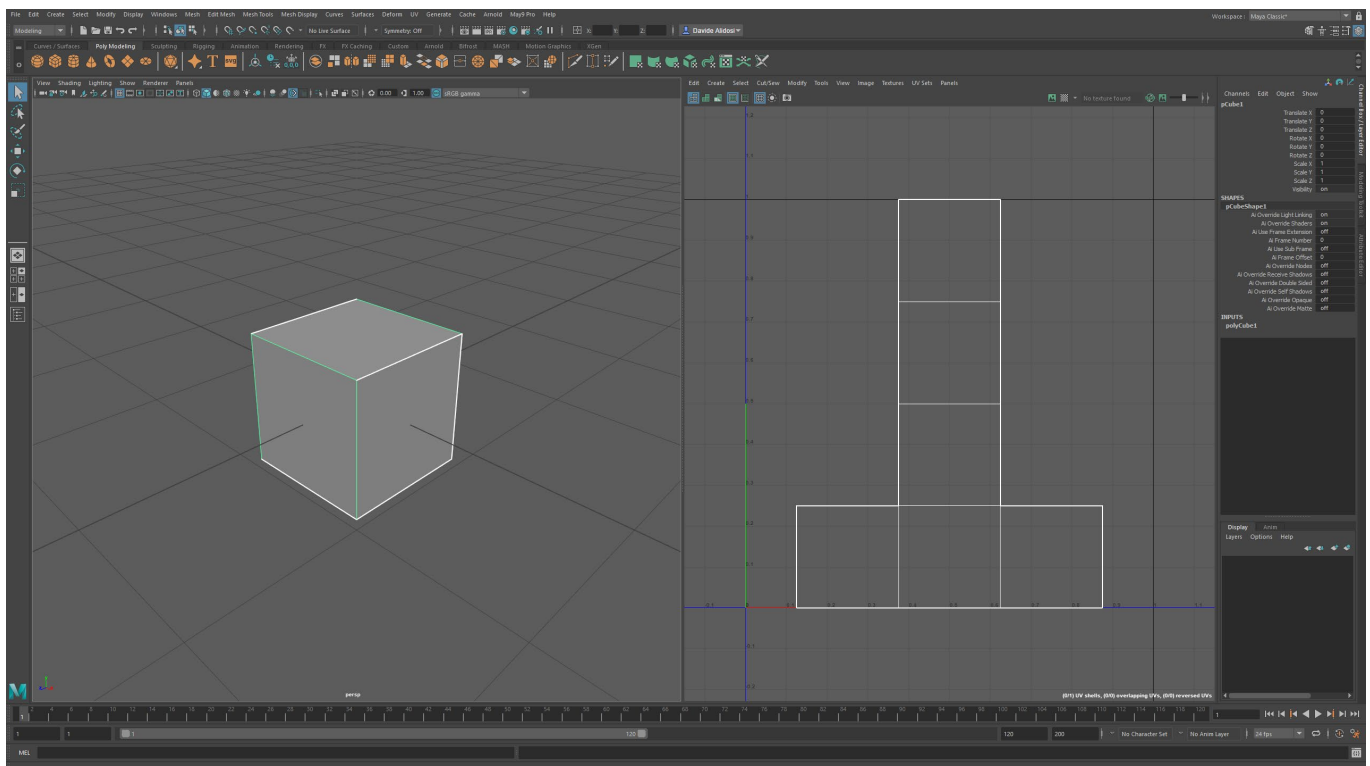


In addition *May9 Next* also include: **contextual hotkeys**, **layouts**, **scripts**, **presets**, and **optional hotkeys**.

BASIC USAGE

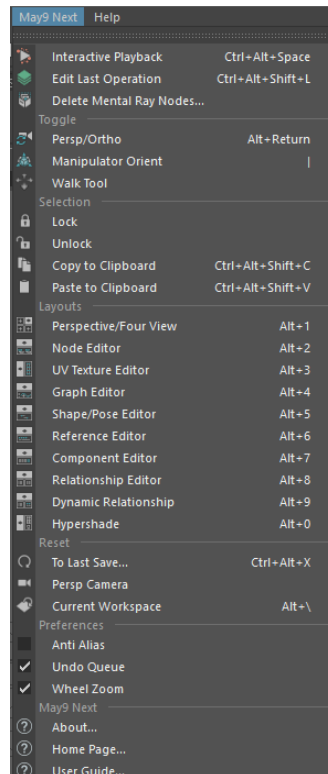
MAY9 NEXT LAYOUTS

The *May9 Next* Layouts are designed to be integrated in the *Maya Classic* Workspace, for open one of the ten Layout available just use a Hotkey from **ALT + 1** to **ALT + 0** or use *May9 Next* drop-down menu:



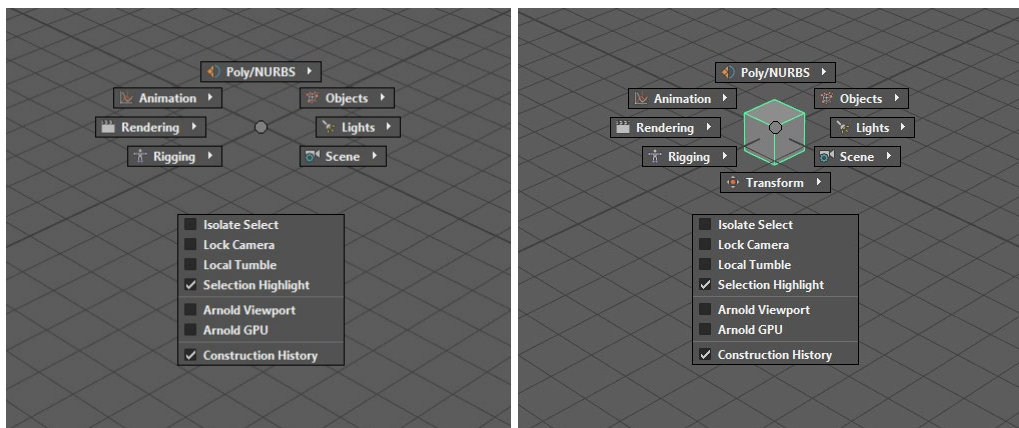
MAY9 NEXT DROP-DOWN MENU

A conventional drop-down is provided to provide a quick access to layouts and *May9 Next* not contextual commands:



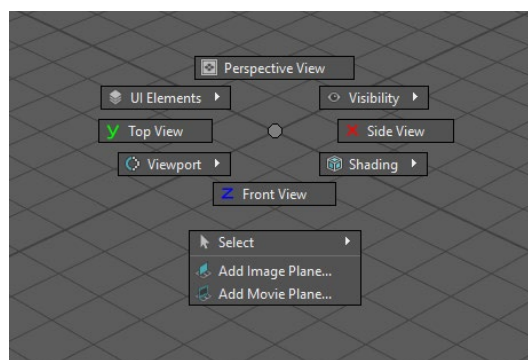
ALL MM

All MM is the foundation of *May9 Next*, is a polymorphic Marking Menu available by pressing **Z + Middle Mouse Button** (from now **MMB**) and use **bold** style:



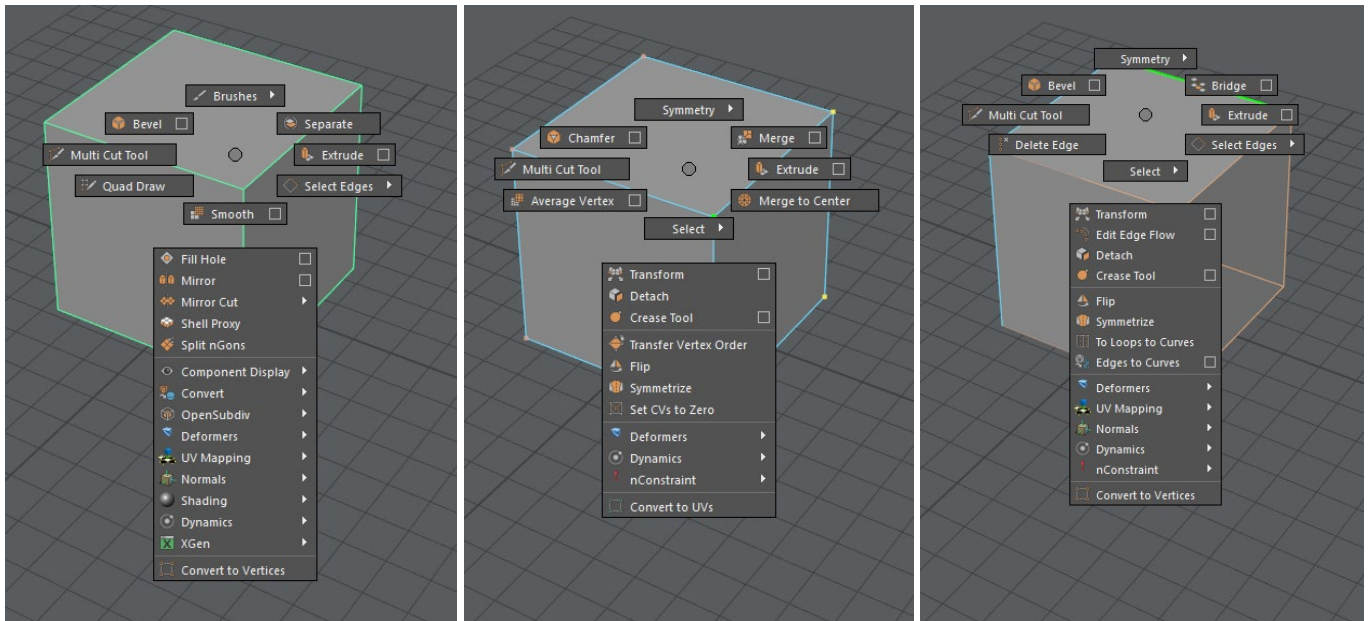
MAYA WINDOW MM

Maya Window MM is available over the Viewport and there isn't selection, is available by pressing **Z + Left Mouse Button** (from now **LMB**):



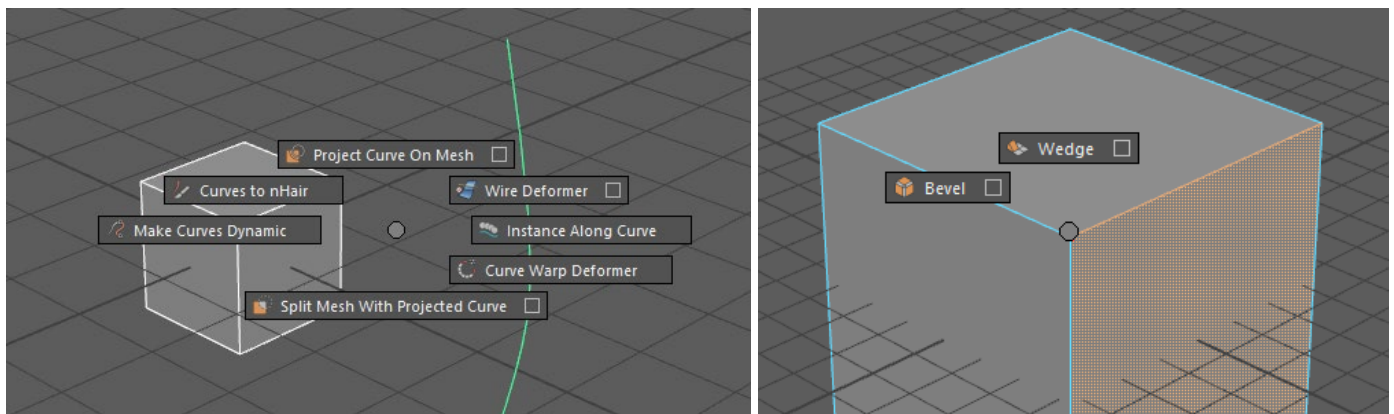
CONTEXTUAL SINGLE SELECTION MM

When a single object or component type is selected press **Z + LMB** to enable the relative contextual MM:



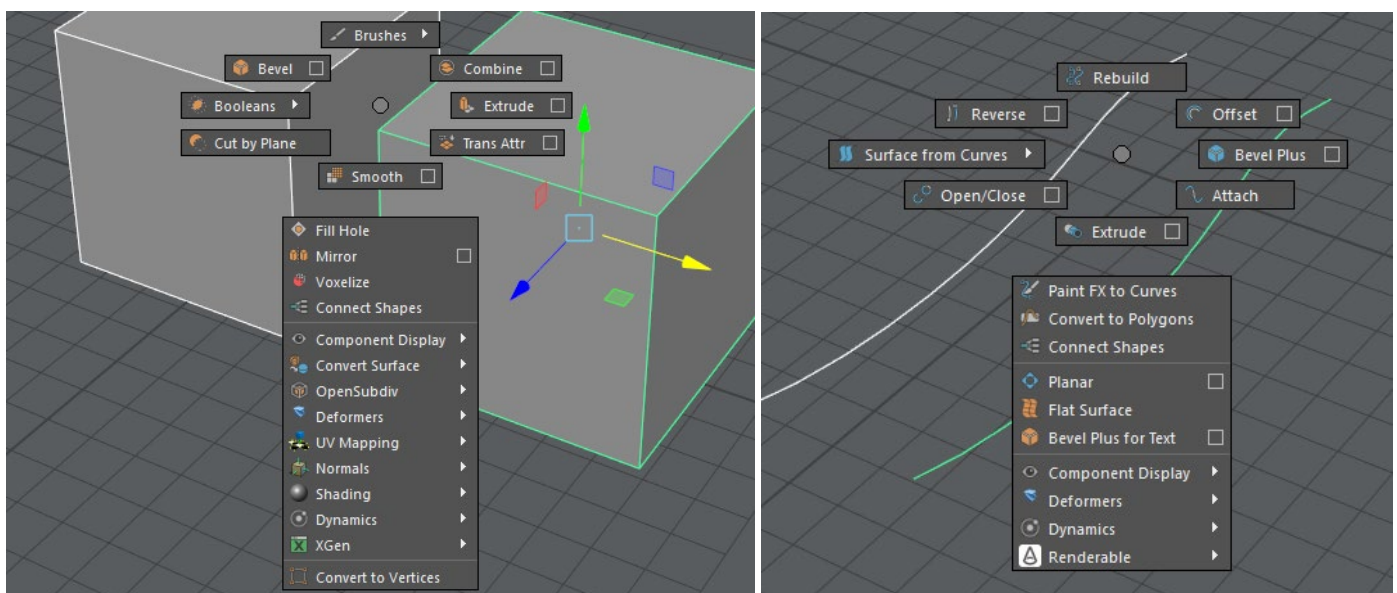
CONTEXTUAL MULTI SELECTION MM

When a multiple object type or component type is selected press **Z + LMB** to enable the relative contextual MM:



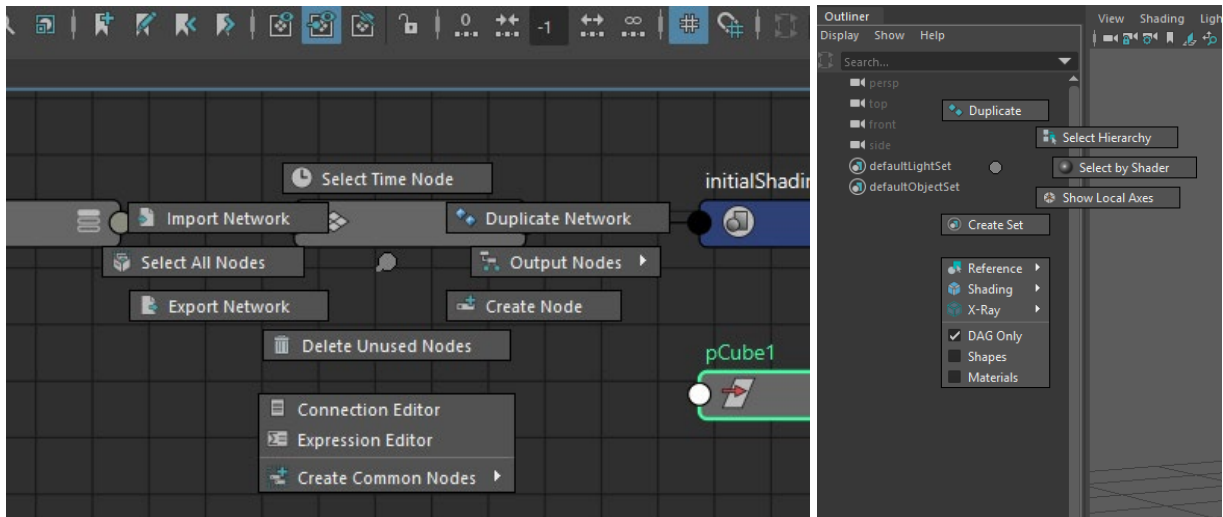
CONTEXTUAL MULTI SELECTION OF THE SAME OBJECT TYPE MM

When a multiple object of the same type is selected press **Z + LMB** to enable the relative contextual MM:



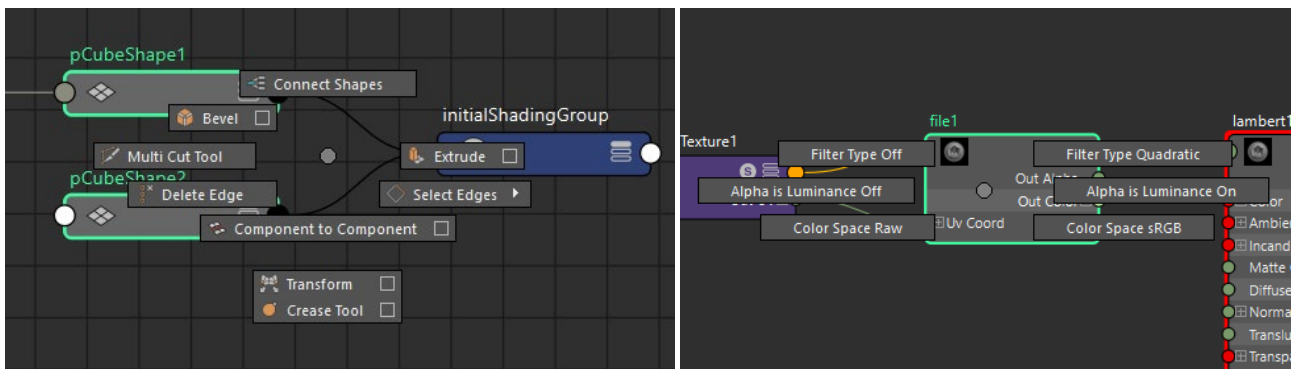
CONTEXTUAL PANEL MM

When the mouse is over a panel press **Z + LMB** to enable the relative contextual MM:



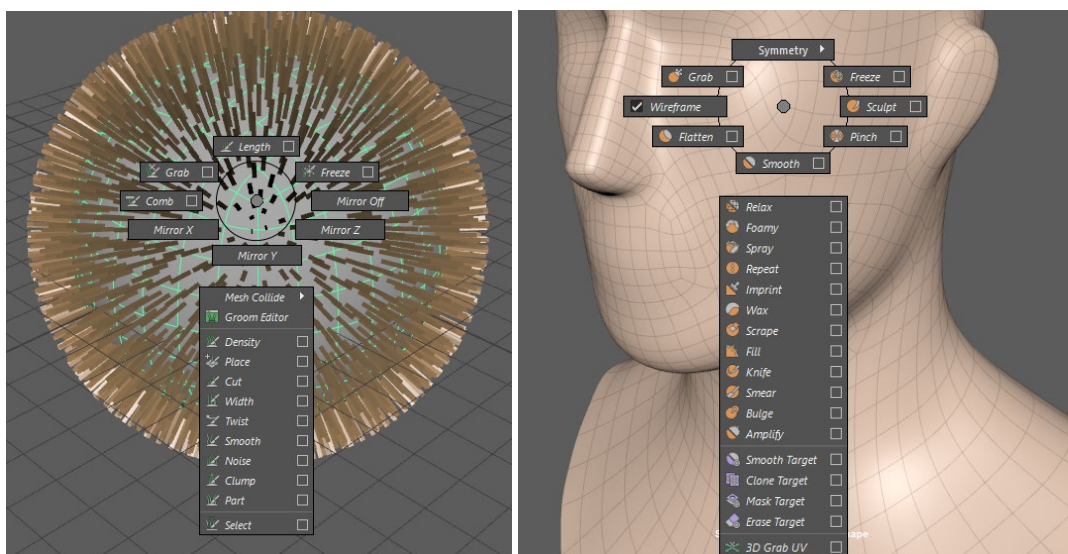
CONTEXTUAL NODE SELECTION IN EDITOR PANELS

When a single node, a combination of the same type nodes or a combination of different type nodes are selected into an editor panel press **Z + LMB** to enable the relative contextual MM:



CONTEXTUAL TOOL MM

When a supported Tool is in use press **Z + MMB** to enable the relative contextual MM, this kind of MMs use *italic style*:



These are the tool supported by Contextual Tool MM: *3D Paint, Paint Attribute, Paint Skin, Legacy Artisan Sculpt, Create Particle, Paint FX, Grease Pencil, Multi Cut, Quad Draw, Connect, Poly Crease, Sculpt Brushes, XGen Groom Paint, Create Particle, Target Weld, IK Handle, IK Spline Handle, Edit Membership, Walk and UV Brushes.*

CONTEXTUAL SINGLE SELECTION HOTKEY

If a single object or component type is selected press and release **Z** for enable the relative contextual Hotkey.
For example: almost every object types toggle to component mode by using *contextual hotkey*.

CONTEXTUAL MULTI SELECTION OF THE SAME OBJECT TYPE HOTKEY

If a multiple object of the same type is selected press and release **Z** for enable the relative contextual Hotkey.

CONTEXTUAL MULTI SELECTION OF DIFFERENT OBJECT TYPE HOTKEY

If a multiple object type or component type is selected press and release **Z** for enable the relative contextual Hotkey.

CONTEXTUAL PANEL HOTKEY

If the mouse is over a panel press and release **Z** for enable the relative contextual Hotkey.

HOTKEYS ADDED TO STANDARD ONES

F1 = Type to find (Maya 2019 only)

SHIFT + ALT + Z = Zero Transformations (move objects to world center)

SHIFT + ALT + SPACE = Playback toggle

CTRL + ALT + R = Start IPR or Arnold Render View

CTRL + ALT + 1 = Smooth Off

CTRL + ALT + 2 = High Quality Smooth

CTRL + ALT + 8 = Paint Effects Panel

CTRL + ALT + X = Reverse to save

CTRL + ALT + M = Toggle Shelf Tabs

CTRL + ALT + T = Toggle Title Bar

CTRL + ALT + I = Toggle Isolate Select

CTRL + ALT + L = List of Input Operation

CTRL + ALT + . = move a keyframe to the next frame

CTRL + ALT + , = move a keyframe to the previous frame

CTRL + ALT + SPACE = Interactive playback

CTRL + SHIFT + ALT + C = Copy selection to clipboard

CTRL + SHIFT + ALT + V = Paste selection to clipboard

CTRL + SHIFT + ALT + G = Save selection in to a Set

CTRL + SHIFT + ALT + M = Toggle Shelf

CTRL + SHIFT + ALT + R = Toggle Resolution Gate

CTRL + SHIFT + ALT + S = Set Smart Keyframe

CTRL + SHIFT + ALT + P = Controller Parent

CTRL + SHIFT + ALT + T = Controller Point

CTRL + SHIFT + ALT + O = Controller Orient

CTRL + SHIFT + ALT + A = Controller Aim

CTRL + SHIFT + ALT + I = Controller Pole Vector

CTRL + SHIFT + ALT + L = Edit Last Operation

CTRL + SHIFT + ALT + X = Kill Maya

CTRL + SHIFT + ALT + MMB = Mouse Over MM

CTRL + ALT + SHIFT + D = Match Pivot

CTRL + ALT + D = Reset Pivot

CTRL + ALT + O = Tag as Controller

CTRL + ALT + P = Parent Controller

CTRL + RETURN = Delete Non-Deformer History and Freeze Transform

CTRL + F = Ignore the child and frame only the selected object

CTRL + P = Parent and position

CTRL + J = Connection Editor

CTRL + K = Channel Control

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

SHIFT + RETURN = Duplicate Attribute Editor tab

`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 Current Workspace
`ALT + L` = Open Color Picker
`ALT + K` = Bifrost Graph Editor
`ALT + ENTER` = Toggle perspective to orthographic camera
`~` = Orient Manipulators Toggle
`HOME` = Reset Transformations
`END` = Select Hierarchy
`K + drag` = Smooth playback mode
`CMD + SPACE` = Toggle Full Screen (Mac OS only)

RESIGNED HOTKEYS

`CTRL + ALT + 3` = High Quality Displacement
`CTRL + ALT + ~` = Smoothing Display Show Both
`CTRL + ALT + RETURN` = Toggle Pan Zoom
`CTRL + ALT + A` = Motion Builder style X-Ray Toggle (Maya 2020 only)
`ALT + -` = Toggle Color Feedback
`ALT + I` = Toggle Wireframe in Artisan
`SHIFT + N` = Full Hotbox Display
`SHIFT + F1` = Maya Help (Maya 2019 only)
`CTRL + ALT + F1` = Toggle visibility of NURBS curves (Maya 2020 only)
`CTRL + ALT + F2` = Toggle visibility of Polygons (Maya 2020 only)
`CTRL + ALT + F3` = Toggle visibility of Displacement (Maya 2020 only)
`CTRL + ALT + F4` = Toggle visibility of Image Planes (Maya 2020 only)
`CTRL + ALT + F5` = Toggle visibility of Wireframe on Shaded (Maya 2020 only)

HIDDEN TOOLS EXPOSED

The flowing is the *Autodesk Maya* hidden tools exposed in *May9 Next*:

- Membrane deformer
- Mirror Cut tool
- Legacy curves-based text
- Paint Effects 2D Panel
- Rigid skin bind

CHANGED PREFERENCES

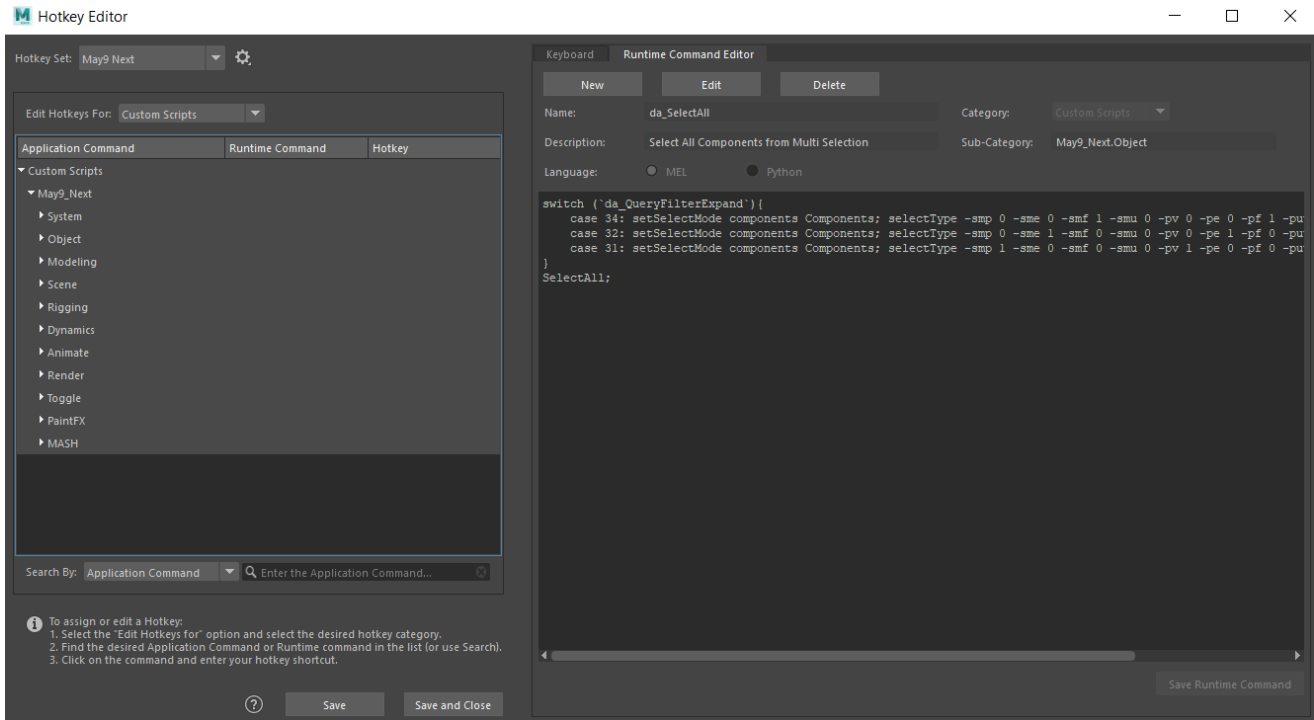
The flowing is the *Autodesk Maya* preferences changed in *May9 Next*:

- Double variable warning is disable
- Connection Editor display hidden attributes
- Custom Hypershade layout
- Render Sequence render all renderable cameras
- Disable restore saved layout from file

CUSTOM SCRIPTS

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

Important note: All the custom scripts are customizable by user under *Windows > Settings\Preferences > Hotkey Editor*.



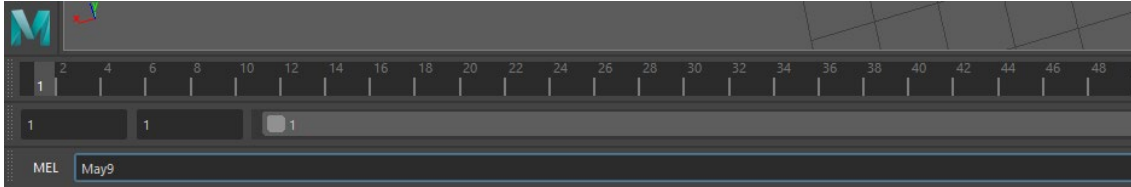
CUSTOM PRESETS

May9 Next contains custom *Preset*s for the following nodes:

- Fluid FX, *fluidEmitter*
 - *da_KillVolume*, convert fluid emitter into a kill volume
- nHair, *hairSystem*
 - *da_RealScale*, define a hair clamp in real cm
 - *da_RealScale_Dynamics*, define a hair clamp in real cm unit and make it dynamic
- nCloth
 - *da_Muscle*, define muscle behaviour for an nCloth
- nParticle
 - *da_Balls*, convert particle into Balls style
 - *da_Cloud*, convert particle into Cloud style
 - *da_Point*, convert particle into Point style
 - *da_ThickCloud*, convert particle into Thick Cloud style
 - *da_Water*, convert particle into Water style
- Paint FX, *stroke*
 - *da_TemplateBrush*, revert a Paint FX stroke to original default

INSTALLATION (VIDEO)

1. If is open close *Autodesk Maya*
2. Copy *modules* folder present in this archive in:
 - a. Windows: `\Users\<username>\Documents\maya`
 - b. Mac OS: `/Users/<username>/Library/Preferences/Autodesk/maya`
 - c. Linux: `~<username>/maya`
3. Run *Autodesk Maya* and execute *May9* as *MEL* command



UPDATE

1. Close *Autodesk Maya* if open
2. Copy *modules* folder present in this archive in:
 - a. Windows: `\Users\<username>\Documents\maya`
 - b. Mac OS: `/Users/<username>/Library/Preferences/Autodesk/maya`
 - c. Linux: `~<username>/maya`
3. Open *Autodesk Maya*

Important note: after the update any customization made to May9 Pro by the user will be removed.

UNINSTALLATION

1. In *Autodesk Maya* run *May9_uninstall* as *MEL* command
2. Restart *Autodesk Maya*

Important note: during the uninstallation process the *Hotkey Set* and settings before *May9 Next* installation is restored and *May9 Next Hotkey Sets* deleted.

RELEASE NOTES

Tested and develop on *Autodesk Maya 2020*.

CREDITS AND LICENSE

May9 Next is made by *Davide Alidosi* and licensed under MIT license.

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

CHANGELOG

Next.2.4 (2020/01/05)

- Add support to Maya 2020
- Add support to Cached Playback Dynamics (Only on Maya 2020)
- Add support to Auto Snap Keys (Only on Maya 2020)
- Add support to Polygon Remesh and Retopologize (Only on Maya 2020)
- Add support to parentOffsetMatrix (Only on Maya 2020)
- Add support to Rivet (Only on Maya 2020)
- Add support to Proximity Wrap Deformer (Only on Maya 2020)
- Add Kill Maya script
- Assign Kill Maya to CTRL + SHIFT + ALT + X
- Resigned new Maya 2020 hotkeys if needed
- Removed support to Polygon Remesh and Retopologize in Maya version prior to 2020
- Minor fixes and improvements

Next.2.3 (2019/12/05)

- Add Air Rivet script
- Add support to bifrostGeoToMaya node
- Add support to Bif node
- Add support to mesh visibility for pfxHair
- Add aiOptions quality presets
- Add support to Scale Constraint
- Add support to Vertex Color
- Assign Bifrost Graph Editor to ALT + K
- Improve Bifrost Liquid support
- Improve BOSS support
- Improve MASH support
- Minor fixes and improvements

Next.2.2 (2019/08/05)

- Add support to Maya 2019.2
- Add Delta Wrap script
- Add support to UV Legacy Unfold
- Add support to Substance 2.0
- Improve 2D textures support
- Improve nParticles support
- Improve Field to Curve script
- Fix Particle Trails support
- Minor fixes and improvements

Next.2.1 (2019/07/05)

- Add Advance Smooth Proxy script
- Add support to Bake Pivot
- Add support to Fluid Emitter
- Add support to Transfer Maps
- Improve support to Fluids
- Improved UV mapping scripts
- Improved support to upcoming Bifrost Graph
- Improved particle support
- Improve Fields support
- Optimize scriptJob numbers
- Now Undo will be enabling and cleaned when a scene is creating or open
- Now May9 Next menu is refreshed when a scene is creating or open
- Now Disable restore saved layout from file option is off by default
- Fix errors on following scripts:
 - da_nParticleKill
 - da_PlaneCutter
 - da_CobineCurves
- Minor fixes and improvements

Next.2.0 (2019/06/05)

- Add support to Maya 2019.1
- Add support to upcoming Bifrost Graph
- Add support to Cached Smooth Meshes (Only on Maya 2019.1)
- Add support to new Light Editor (Only on Maya 2019.1)
- Add support to Hardware Fog
- Add Duplicate Window for Node Editor and Hyper Graph
- Add Duplicate Attribute Editor tab script and assign to SHIFT + RETURN
- Improve Maya Window MM
- Improve Camera support
- Improve Attach to Motion Path support
- Improve Match Normal and Match UV scripts
- Improve Mono Shell and Auto Unfold scripts
- Improve support to polygons Combine and Separate
- Improve Character Set support
- Now joint labelling work only on Maya 2019 due to incompatibility with previous versions
- Minor fixes and improvements

Next.1.5 (2019/05/15)

- Add Noise and Sine on Selected Channels scripts
- Add DOF Control script
- Add Toggle Stepped Global Key Tangent script
- Add Motion Trail to Curve script
- Add Anti-Alias as preference
- Improve Graph Editor support
- Improve install and uninstall procedure
- Improve All_MM
- Improve Main Menu
- Now Render Sequence render all renderable cameras
- Minor fixes and improvements

Next.1.3 (2019/05/05)

- Add support to Joint labels
- Add Expose Joint Orient script
- Improved contextual MMs on rigged objects
- Improve IK Handles support
- Improve Handle support
- Improve Curves support
- Fix name clash errors by query object full path
- Minor fixes and improvements

Next.1.2 (2019/04/25)

- Add support to Curve Edit Points
- Add support to Surface Point
- Add support to Volume Axis Field
- Add String to Expression script
- Add Rigged Sculpt deformer script
- Add Locator on Curve script
- Add Locator on Surface script
- Add Volume Field to Curve script
- Add Rigged Cluster script
- Add Rivet to CVs script
- Improve support to Expression
- Improve Locator support
- Improve References support
- Improve nHair support
- Fix Smooth UV script
- Minor fixes and improvements

Next.1.1 (2019/04/10)

- Add Select Object from animation curve script
- Add Select Layer Objects script
- Assign Select Layer Objects to CTRL + SHIFT + L
- Improve UV editor no click command
- Improve contextual MMs when MtoA is not loaded
- Fix MMs error if MtoA is not loaded
- Minor fixes and improvements

Next.1.0 (2019/04/05)

- All_MM is now a polymorphic Marking Menu
- Add support to Arnold MtoA 3.2
- Add support to Quick Rig
- Add Toggle Pivot Visibility script
- Add support to 2D Placement node
- Assign Edit Last Operation to CTRL + SHIFT + ALT + L
- Improve May9 core engine
- Improve Bifrost render support
- Improve UV support
- Minor fixes and improvements

Next.0.7 (2019/03/22)

- Add ellipsis if a command opens an options window
- Add Selection Size script
- Add support to Edit Membership Tool
- Improve All Marking Menu and Main menu
- Improve deformers support
- Improve MMs consistency
- Improve support to Interactive Playback
- Improve Maya Software support
- Improve and Fix Portal Light support
- Fix Dynamic Field support
- Minor fixes and improvements

Next.0.6 (2019/03/10)

- Add Kill Volume for nParticles
- Assign Mouse Over MM to CTRL + SHIFT + ALT + MMB, to avoid transform component hotkey overwrite
- Improve installation and un-installation process
- Improve support to Bifrost
- Improve support to Nucleus
- Improve cache support
- Improve UV support
- Fix critical error that prevent loading of the plug-in after an update on Maya 2018
- Fix long initialization and installation time on Maya 2018
- Minor fixes and improvements

Next.0.5 (2019/03/05)

- Add support to Asset
- Add support to Character Set
- Add Mouse Over MM script
- Add Bind Rigid Skin script
- Add toggle Undo Queue to May9 main menu
- Assign Mouse Over MM to CTRL + MMB
- Improve Node Editor support
- Improve Hypergraph support
- Improve Walk tool support
- Improve Tool Settings support
- Improve Skin Paint support
- Minor fixes and improvements

Next.0.4 (2019/02/15)

- Add support to Walk tool
- Add vertex selection toggle script, under Paint Skin MM
- Assign toggle Isolate selected to CTRL + ALT + I
- Improve Skin Paint support
- Improve Skin Cluster support
- Improve modelling support
- Improve Manipulator orient script
- Revert to legacy Light Editor
- Fix Crease tool MM
- Minor fixes and improvements

Next.0.3 (2019/02/05)

- Add Delta Skin script
- Add Auto Unfold script
- Add UV Mono Shell script
- Improved Mesh light support
- Improved May9 update procedure
- Improved Rigid skin bind support
- Minor fixes and improvements

Next.0.2 (2019/01/27)

- Add Cache playback and Parallel evaluation support directly in All_MM
- Add Edge slide support on Vertex MM
- Add Surface slide support on Edge MM and Face MM
- Add custom Soft selection and Symmetry to supported MMs
- Improve UV support
- Improve installation consistency
- Improve Connect tool support
- Minor fixes and improvements

Next.0.1 (2019/01/20)

- Improve Cache playback support
- Improve curve support
- Improve Clean Topology script
- Improve XGen support
- Fix MMs check boxes errors
- Minor fixes and improvements

Next.0.0 (2019/01/05)

- Initial Release