

## 19.1.MDDN 451

View Online



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(2) DDRU Lecture 15 02 19 Parametricism - YouTube. (n.d.).

<https://www.youtube.com/watch?v=gs6tb-QFfD4>

(2) Practical Procedural Generation for Everyone - YouTube. (n.d.).

<https://www.youtube.com/watch?v=WumyfLEa6bU>

(16) Blender Conference 2017: The Secret of Making High Quality Art in Blender and Everywhere BCon17 - YouTubeBlender - YouTube. (n.d.).

<https://www.youtube.com/watch?v=0KhJrMKo04g>

(16) Essence of linear algebra preview - YouTube. (n.d.).

[https://www.youtube.com/watch?v=kjBOesZCoqc&list=PLZHQObOWTQDPD3MizzM2xVFitgF8hE\\_ab](https://www.youtube.com/watch?v=kjBOesZCoqc&list=PLZHQObOWTQDPD3MizzM2xVFitgF8hE_ab)

(16) Linear combinations, span, and basis vectors | Essence of linear algebra, chapter 2 - YouTube. (n.d.).

[https://www.youtube.com/watch?v=k7RM-ot2NWY&index=3&list=PLZHQObOWTQDPD3MizzM2xVFitgF8hE\\_ab](https://www.youtube.com/watch?v=k7RM-ot2NWY&index=3&list=PLZHQObOWTQDPD3MizzM2xVFitgF8hE_ab)

(16) Linear transformations and matrices | Essence of linear algebra, chapter 3 - YouTube. (n.d.).

[https://www.youtube.com/watch?v=kYB8IZa5AuE&index=4&list=PLZHQObOWTQDPD3MizzM2xVFitgF8hE\\_ab](https://www.youtube.com/watch?v=kYB8IZa5AuE&index=4&list=PLZHQObOWTQDPD3MizzM2xVFitgF8hE_ab)

(16) Three-dimensional linear transformations | Essence of linear algebra, footnote - YouTube. (n.d.).

[https://www.youtube.com/watch?v=rHLEWRxRGiM&list=PLZHQObOWTQDPD3MizzM2xVFitgF8hE\\_ab&index=6](https://www.youtube.com/watch?v=rHLEWRxRGiM&list=PLZHQObOWTQDPD3MizzM2xVFitgF8hE_ab&index=6)

(16) Vectors, what even are they? | Essence of linear algebra, chapter 1 - YouTube. (n.d.).

[https://www.youtube.com/watch?v=fNk\\_zzaMoSs&index=2&list=PLZHQObOWTQDPD3MizzM2xVFitgF8hE\\_ab](https://www.youtube.com/watch?v=fNk_zzaMoSs&index=2&list=PLZHQObOWTQDPD3MizzM2xVFitgF8hE_ab)

(20) 2001: A Space Odyssey - Trailer [1968] HD - YouTube. (n.d.).

<https://www.youtube.com/watch?v=Z2UWOeBcsJI>

(20) Blade Runner: Designing the Future- Pt. 1 - YouTube. (n.d.).

<https://www.youtube.com/watch?v=ZPluJUQGHrg>

(20) Death Star Assault - A New Hope [1080p HD] - YouTube. (n.d.).

<https://www.youtube.com/watch?v=2WBG2rjZGW8>

(20) Inside Adam Savage's Cave: Model Making for Movies - YouTube. (n.d.).  
<https://www.youtube.com/watch?v=vKRG6amACEE>

(20) Opening scene - 'Blade Runner' (HD) - YouTube. (n.d.).  
<https://www.youtube.com/watch?v=LwDdP88Dr54>

(29) Lars Spuybroek 'the sympathy of things' @ Faculty of Architecture, University of Innsbruck 2012 - YouTube. (n.d.). <https://www.youtube.com/watch?v=CfAgl4dhuFs>

(49) Steal Like An Artist: Austin Kleon at TEDxKC - YouTube. (n.d.).  
<https://www.youtube.com/watch?v=oww7oB9rjgw>

About Ansel Adams - Ansel Adams Gallery. (n.d.).  
<http://anseladams.com/about-ansel-adams/>

Abstract FX | Simon Holmedal | Procedural in Motion on Vimeo. (n.d.).  
<https://vimeo.com/236554263>

Adam Swaab on Vimeo. (n.d.). <https://vimeo.com/adamswaab>

Aixsponza - 3d Motion Design Studio » Aixsponza. (n.d.). <http://www.aixsponza.com/>

Aixsponza on Vimeo. (n.d.). <https://vimeo.com/aixsponza>

Ash Thorp on Vimeo. (n.d.). <https://vimeo.com/ashthorp>

Basic Material Style Sheets in Houdini | SideFX. (n.d.).  
<https://www.sidefx.com/tutorials/basic-material-style-sheets-in-houdini-1/>

Believability in Procedural Modelling: Layering of Simple Rules | Anastasia Opara | Houdini HIVE at SIGGRAPH 2017 on Vimeo. (n.d.). <https://vimeo.com/228391688>

Blade Runner Model Shop - Album on Imgur. (n.d.). <https://imgur.com/a/mv8qf>

Caspar David Friedrich - The Complete Works - caspardavidfriedrich.org. (n.d.).  
<https://www.caspardavidfriedrich.org/>

CG Education. (n.d.-a).  
[http://www.neilblevins.com/cg\\_education/primary\\_secondary\\_and\\_tertiary\\_shapes/primary\\_secondary\\_and\\_tertiary\\_shapes.htm](http://www.neilblevins.com/cg_education/primary_secondary_and_tertiary_shapes/primary_secondary_and_tertiary_shapes.htm)

CG Education. (n.d.-b).  
[http://www.neilblevins.com/cg\\_education/composition\\_contrasts/composition\\_contrasts.htm](http://www.neilblevins.com/cg_education/composition_contrasts/composition_contrasts.htm)

CG Education. (n.d.-c). [http://www.neilblevins.com/cg\\_education/clumping/clumping.htm](http://www.neilblevins.com/cg_education/clumping/clumping.htm)

CG Education. (n.d.-d).  
[http://www.neilblevins.com/cg\\_education/areas\\_of\\_visual\\_rest/areas\\_of\\_visual\\_rest.htm](http://www.neilblevins.com/cg_education/areas_of_visual_rest/areas_of_visual_rest.htm)

CG Education. (n.d.-e).  
[http://www.neilblevins.com/cg\\_education/details\\_make\\_big/details\\_make\\_big.htm](http://www.neilblevins.com/cg_education/details_make_big/details_make_big.htm)

CHAPTER006 / THE DARK LABYRINTH — SOME/THINGS. (n.d.).

<https://www.someslashthings.com/chapter006/>

Class Representatives | VUWSA. (n.d.). <http://www.vuwsa.org.nz/class-representatives/>

Create Terrains from Elevation Maps | SideFX. (n.d.).

<https://www.sidefx.com/tutorials/create-terrains-from-elevation-maps/>

Creating a Gradient Ramp - Part 1 | SideFX. (n.d.).

<https://www.sidefx.com/tutorials/creating-a-gradient-ramp-part-1/>

Creating a Gradient ramp - Part 2 | SideFX. (n.d.).

<https://www.sidefx.com/tutorials/creating-a-gradient-ramp-part-2/>

Creating a Gradient Ramp - Part 3 | SideFX. (n.d.).

<https://www.sidefx.com/tutorials/creating-a-gradient-ramp-part-3/>

Creating Depth of Field | SideFX. (n.d.).

<https://www.sidefx.com/tutorials/creating-depth-of-field/>

Curvature VOP | SideFX. (n.d.). <https://www.sidefx.com/tutorials/curvature-vop/>

DIY Scatter Tool (Solving Problems in Houdini) on Vimeo. (n.d.).

<https://vimeo.com/198658562>

Emotion - Wikipedia. (n.d.). <https://en.wikipedia.org/wiki/Emotion>

EUE 2017: Simon Fiedler - Building Production Oriented Assets in Houdini on Vimeo. (n.d.).

<https://vimeo.com/222674712>

"For the Love of Sin" VEX tutorial on Vimeo. (n.d.). <https://vimeo.com/240349962>

For-each copy tutorial. (n.d.).

[http://www.sidefx.com/docs/houdini/copy/tutorial\\_stamping.html](http://www.sidefx.com/docs/houdini/copy/tutorial_stamping.html)

Fractal Minerals Rendering with Redshift | SideFX. (n.d.).

<https://www.sidefx.com/tutorials/fractal-minerals-rendering-with-redshift/>

Fun with VEX | More patterns | SideFX. (n.d.).

<https://www.sidefx.com/tutorials/fun-with-vex-sinecosine-even-more-patterns/>

GalaxyKate. (n.d.). <http://www.galaxykate.com/>

GDC 2017 | Alex Dracott | Houdini 16 Terrain Tools on Vimeo. (n.d.).

<https://vimeo.com/209235365>

GDC2018 | Alex Dracott | Generating HeightField Terrain Textures in Houdini on Vimeo.

(n.d.). <https://vimeo.com/261901572>

Geometry Workflows in Houdini 16 // Jeff Wagner // Illume Webinar on Vimeo. (n.d.).

<https://vimeo.com/213127548>

Ghost Recon Wildlands Terrain Tools and Technology - YouTube. (n.d.).  
<https://www.youtube.com/watch?v=kzthHcbG9IM>

Greebles: how tiny details make a huge Star Wars universe | Den of Geek. (n.d.).  
<http://www.denofgeek.com/movies/star-wars/36450/greebles-how-tiny-details-make-a-huge-star-wars-universe>

Green Mountains - Terrain Overview | SideFX. (n.d.).  
<https://www.sidefx.com/tutorials/green-mountains-terrain-overview/>

Guerrilla Games | Horizon Zero Dawn on Vimeo. (n.d.). <https://vimeo.com/216727778>

H15 Masterclass | Material Stylesheets | SideFX. (n.d.).  
<https://www.sidefx.com/h15-masterclass-material-stylesheets/>

H17 Master Class | Terrains | Heightfield Scatter | SideFX. (n.d.).  
<https://www.sidefx.com/tutorials/h17-terrain-master-class-part-02-heightfield-scatter/>

Hardship Fund | Victoria University of Wellington. (n.d.).  
<https://www.victoria.ac.nz/students/money/hardship-fund>

Henry Dean on Vimeo. (n.d.). <https://vimeo.com/hsdean>

Home | OpenTopography. (n.d.). <http://www.opentopography.org/>

Houdini 16 Masterclass | Custom Shading | SideFX. (n.d.).  
<https://www.sidefx.com/tutorials/houdini-16-masterclass-custom-shading/>

Houdini 16 Masterclass | Heightfields | SideFX. (n.d.).  
<https://www.sidefx.com/tutorials/houdini-16-masterclass-heightfields/>

Houdini Foundations Book | SideFX. (n.d.).  
<https://www.sidefx.com/tutorials/houdini-foundations-book/>

Houdini H16 Heightfield (Terrain) Review on Vimeo. (n.d.). <https://vimeo.com/236624091>  
HoudiniChops - cgwiki. (n.d.). <http://www.tokeru.com/cgwiki/index.php?title=HoudiniChops>

Introduction to Houdini - Chapter 1- Interface, Navigation and scene creation on Vimeo. (n.d.). <https://vimeo.com/241316190>

Introduction to Houdini - chapter 2 - What is Proceduralism? on Vimeo. (n.d.).  
<https://vimeo.com/242345848>

Introduction to Houdini - chapter 3A - modeling basics on Vimeo. (n.d.).  
<https://vimeo.com/243447762>

Introduction to Houdini - Chapter 3B - modeling a table on Vimeo. (n.d.).  
<https://vimeo.com/243447906>

Introduction to Houdini - Chapter 4- making digital assets. (n.d.).  
[https://www.youtube.com/watch?v=\\_4iqjzVID0](https://www.youtube.com/watch?v=_4iqjzVID0)

Introduction to Houdini - Chapter 8 - Attributes on Vimeo. (n.d.).

<https://vimeo.com/250238404>

Introduction to Vex - Houdini on Vimeo. (n.d.). <https://vimeo.com/215505507>

John Ruskin - Wikipedia. (n.d.). [https://en.wikipedia.org/wiki/John\\_Ruskin](https://en.wikipedia.org/wiki/John_Ruskin)

John Ruskin (1819-1900). The Uses of Ornament. Warner, et al., comp. 1917. The Library of the World's Best Literature. (n.d.). <http://www.bartleby.com/library/prose/4424.html>

Kitbashed. (n.d.). <https://kitbashed.com/>

LIK Fine Art - Limited Edition Photography by Peter Lik. (n.d.). <https://lik.com/>

Live Rendering of Heightfields in RS | Entagma. (n.d.).

<http://www.entagma.com/live-rendering-of-heightfields-in-rs/#more-1077>

Looping in geometry networks. (n.d.).

<http://www.sidefx.com/docs/houdini/model/looping.html>

Loops and flow control. (n.d.). <http://www.sidefx.com/docs/houdini/vex/statement.html>

Luigi Honorat (@luigihonorat) Instagram photos and videos(n.d.).

<https://www.instagram.com/luigihonorat?hl=en>

M01 | Next Steps | Procedural Animation | Intro to CHOPs on Vimeo. (n.d.).

<https://vimeo.com/75498797>

ManvsMachine. (n.d.). <http://mvsm.com/>

ManvsMachine on Vimeo. (n.d.). <https://vimeo.com/mvsm>

Mars Exploration Image Gallery. (n.d.).

[https://www.nasa.gov/mission\\_pages/mars/images/index.html](https://www.nasa.gov/mission_pages/mars/images/index.html)

Materials. (n.d.). <https://www.sidefx.com/docs/houdini/shade/index.html>

Michael Kenna. (n.d.). <http://michaelkenna.net/index2.php>

Niels PRAYER on Vimeo. (n.d.). <https://vimeo.com/nielsprayer>

"Non-VFX" VFX (Matt Estela) / Houdini ILLUME Webinar on Vimeo. (n.d.).

<https://vimeo.com/188152206>

Numberphile. (2018a). The Golden Ratio (why it is so irrational) - Numberphile - YouTube.

<https://www.youtube.com/watch?v=sj8Sg8qnjOg>

Numberphile. (2018b). The Silver Ratio - Numberphile - YouTube.

<https://www.youtube.com/watch?v=7IRgeTmxnlg>

Poly Extrude. (n.d.). <http://www.sidefx.com/docs/houdini/nodes/sop/polyextrude>

Procedural Mandala Pattern VEX tutorial on Vimeo. (n.d.). <https://vimeo.com/251931537>

Procedural Rock Formations for UE4 | Saber Jlassi | Houdini HIVE at SIGGRAPH 2017 on Vimeo. (n.d.). <https://vimeo.com/228238370>

Quick Tip 01 - Growth Propagation In Houdini on Vimeo. (n.d.). <https://vimeo.com/149939158>

Rendering. (n.d.). <https://www.sidefx.com/docs/houdini/render/index.html>

Revell V-8 Engine Model. (n.d.). <http://www.partsofsw.com/v8parts.htm>

Schumacher, P. (2009). Parametricism: A New Global Style for Architecture and Urban Design. *Architectural Design*, 79(4), 14–23. <https://doi.org/10.1002/ad.912>

side-effects-software-25-years-on. (n.d.). <https://www.fxguide.com/featured/side-effects-software-25-years-on/>

SideFX Houdini on Vimeo. (n.d.). <https://vimeo.com/goprocedural>

Simon Holmedal on Vimeo. (n.d.). <https://vimeo.com/simonholmedal>

Simple Collaborative Mind Maps - Coggle. (n.d.). <https://coggle.it/>

Star Wars: A New Heap - Triple Canopy. (n.d.). [https://www.canopycanopycanopy.com/issues/4/contents/star\\_wars\\_\\_a\\_new\\_heap](https://www.canopycanopycanopy.com/issues/4/contents/star_wars__a_new_heap)

State of the Advertising Industry | Panel Discussion | Procedural in Motion on Vimeo. (n.d.). <https://vimeo.com/236575927>

Terrain Generation | Ari Danesh | GDC 2019 on Vimeo. (n.d.). <https://vimeo.com/326620692>

Terrain Tools | THUG | SideFX. (n.d.). <https://www.sidefx.com/tutorials/terrain-tools-rajendra-khirodkar-toronto-houdini-user-group-thug-march-2019/>

The Virtual Form | Luigi Honorat | SIGGRAPH Asia 2018 (Tokyo) on Vimeo. (n.d.). <https://vimeo.com/305065790>

Turner - The Complete Works - william-turner.org. (n.d.). <https://www.william-turner.org/>

Tutorials | SideFX. (n.d.). <https://www.sidefx.com/tutorials/>

VEX Functions. (n.d.). <http://www.sidefx.com/docs/houdini/vex/functions/index.html>

VEX in Houdini: Movie Color Visualisation | Entagma. (n.d.). <http://www.entagma.com/vex-in-houdini-movie-color-visualisation/>

VEX language reference. (n.d.). <http://www.sidefx.com/docs/houdini/vex/lang.html>

Walt Disney Animation Studios. (2016). Disney's Practical Guide to Path Tracing - YouTube.

[https://www.youtube.com/watch?v=frLwRLS\\_ZR0](https://www.youtube.com/watch?v=frLwRLS_ZR0)

Weta Workshop's Miniatures Feature in Blade Runner 2049 » Weta Workshop. (n.d.).  
<http://wetaworkshop.com/news/latest/weta-workshop-miniatures-feature-in-blade-runner-2049/>

Zaha Hadid Architects. (n.d.). <http://www.zaha-hadid.com/>