Rhinozine 3D

JUNE 2024

Innovation Over Time: KPF's Legacy with Rhino.Compute In-House Developed Plugins

Learn about **Fenix** and **Sunflower**

Matteo Bulla's Thesis on Digital Shoe Design

Shellbical Pavilion:

A collaborative endeavor from Lucerne University of Applied Sciences and Arts students

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Image by Kyle Houchens

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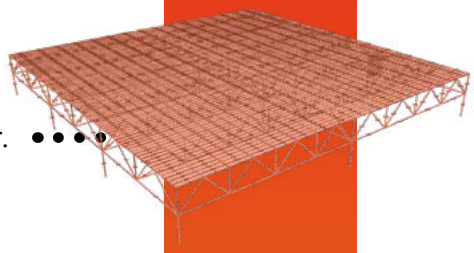
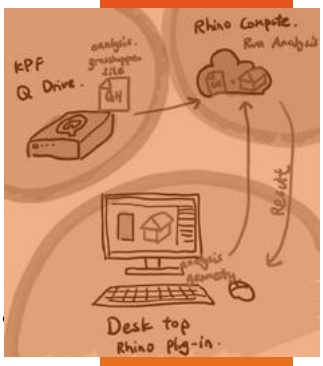
6. Plugins

Learn about Fenix and Sunflower.



8. Developers Corner

Python 3 support in Rhino 8 provides access to over 500,000 libraries for data analysis, scientific computing, and AI from the PyPi collection.



10. KPF's Legacy with Rhino.Compute In-House Developed Plugins

KPF pioneers design tools like Toucan and collaborates for urban optimization, showcasing a commitment to architectural innovation.

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20. Matteo Bulla's Thesis on Digital Shoe Design

Bulla's project at Performance Days 2024 revolutionizes footwear design with Rhino, employing sustainable digital fabrication for stylish functionality.

Discover **exclusive course discounts** with our coupons **across institutions**. Grab your savings **HERE**!

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14. Learning: Akiyo Matsuoka

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Get ready for these upcoming design events.

Rhino3Dzine
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Rhino3Dzine

Share your knowledge.
Expand your network.
Connect with fellow enthusiasts.

Ready to be featured in Rhino3Dzine? Don't hesitate – click HERE and send us your application today!

If you're eager to showcase your latest **project**, share a groundbreaking **plugin**, promote **courses** and **events**, recommend must-read **books**, or offer exciting **job opportunities**, we want to hear from you. Your expertise and insights could inspire our diverse readership!

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Acknowledgments
- **KPF's Legacy with Rhino.Compute In-House Developed Plugins - (p. 10-12)**

Plugins' Developers: **Kohn Pedersen Fox Associates**

- **Matteo Bulla's Thesis on Digital Shoe Design - (p. 20 -21)**

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- **Shellbical Pavilion- (p. 16)**

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- **'Conception Paramétrique avec Rhino et Grasshopper' - (p. 15)**

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Images
Gijs de Zwart (p. 2-3); NASA (p. 5); **protogensoftware.com/fenix** (p. 6); **food4rhino.com** (p. 6-7); **compassis.com** (p. 7), **rhino3d.com** (p. 8); Justyna Szychowsk, **kpf.com** (p. 10-12); **akiyomatsuoka.com** (p. 14); Andrés Velasco Muro (p. 18); Matteo Bulla (20-21); **saopaulo.aaschool.ac.uk/2024-plage-paulista/**, **myssmc.org**, **eventbrite.co.uk**, **blog.rhino3d.com** (p. 22); **designmorphine.com**, **akiyomatsuoka.com** (p. 24); NASA (p. 24-25).

On the Cover
KPF uses Simscale, an in-house plugin developed with Rhino.Compute. (p.10-12)

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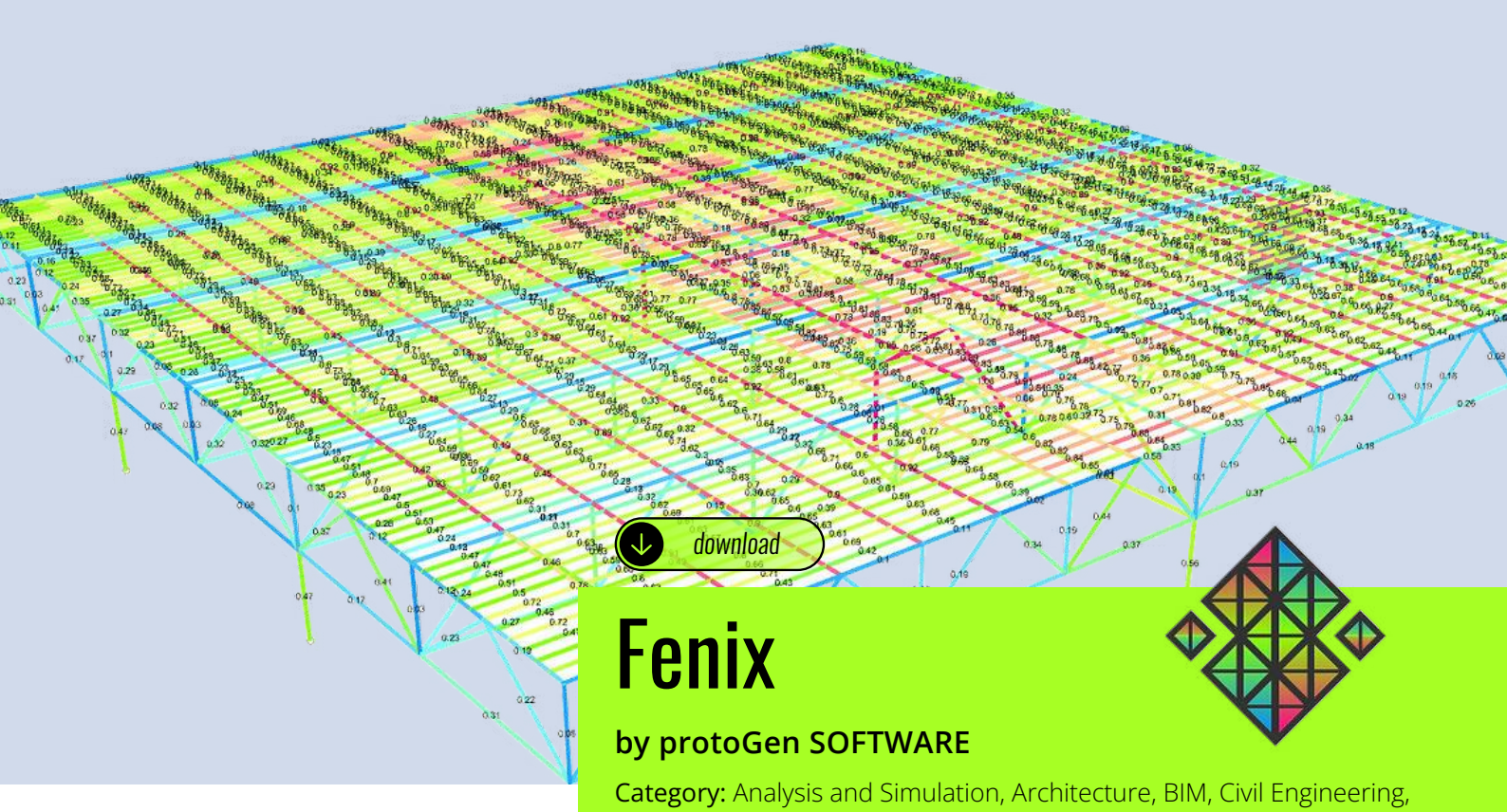
Corrections
-



Fenix

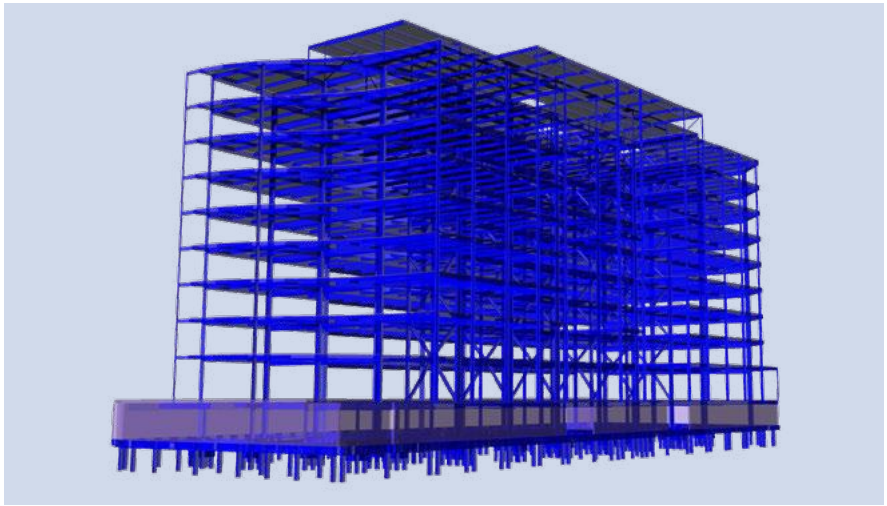
by protoGen SOFTWARE

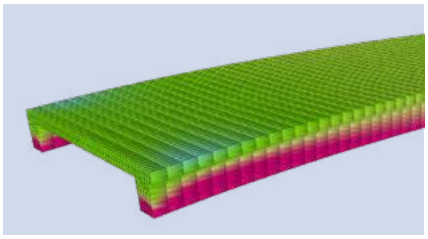
Category: Analysis and Simulation, Architecture, BIM, Civil Engineering, Structural Engineering

Introducing Fenix, a robust elastic finite element analysis and structural design plugin tailored for Grasshopper. With its speed and versatility, Fenix empowers engineers to tackle projects of any scale, from a single beam to towering skyscrapers.

Fenix boasts a comprehensive suite of structural analysis features, including finite element analysis utilizing various elements like frames, shells, and solids. It supports diverse loading scenarios and offers a wide range of analysis types, from static force to response spectrum analysis.

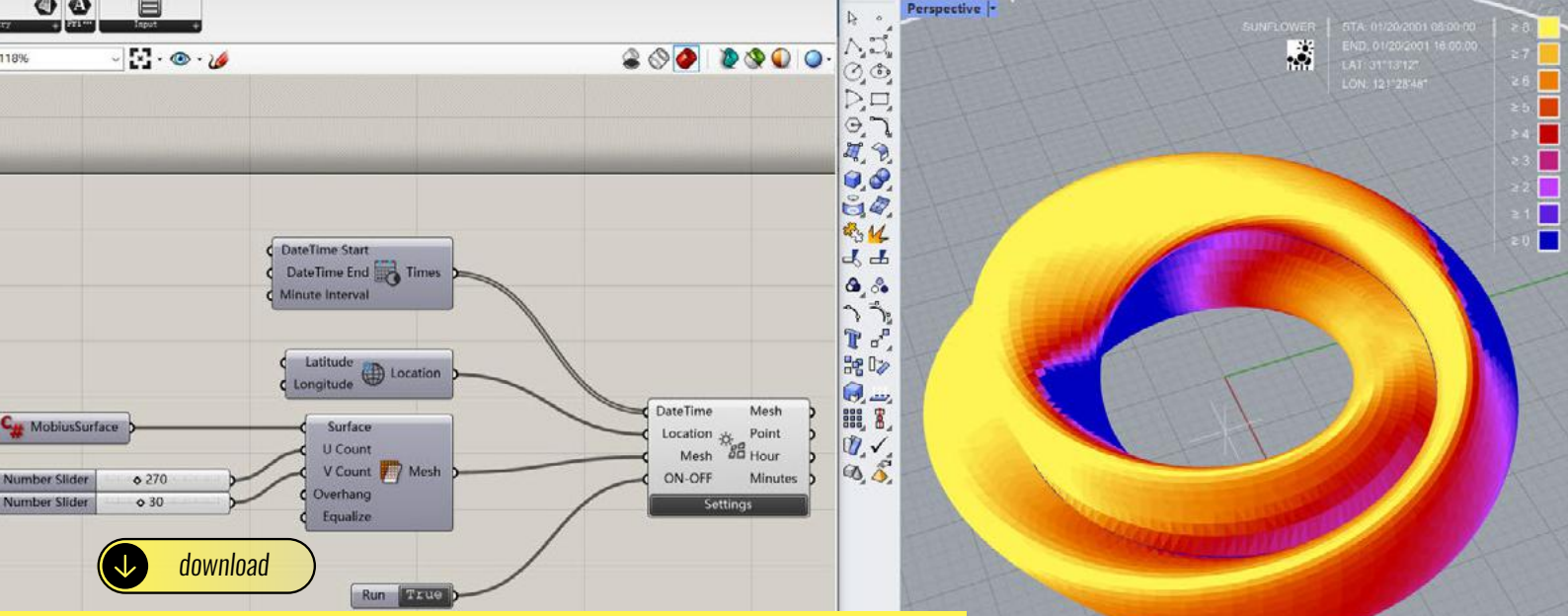
What sets Fenix apart is its remarkable synergy with Rhino 3D and Grasshopper. It enables effortless modeling of complex geometries and full building analyses. With a plethora of element types and formulation options, engineers have precise control over accuracy and efficiency.





But Fenix doesn't stop at analysis; it's also a powerful design tool. From computing demand-to-capacity ratios to detailed design calculations, Fenix ensures structural integrity while streamlining the design process.

Plus for added convenience, Fenix allows for easy model export to other software like ETABS, facilitating smooth workflow connectivity. Say goodbye to cumbersome transfers and hello to efficient, reliable structural analysis and design with Fenix.



Sunflower

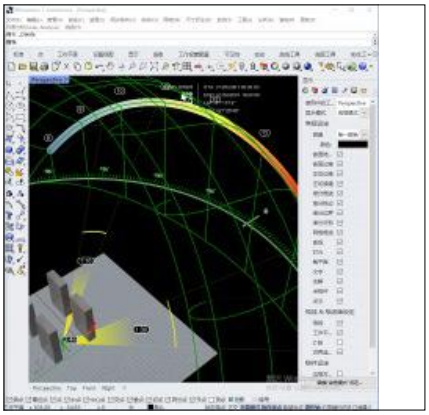
by Rex Wang

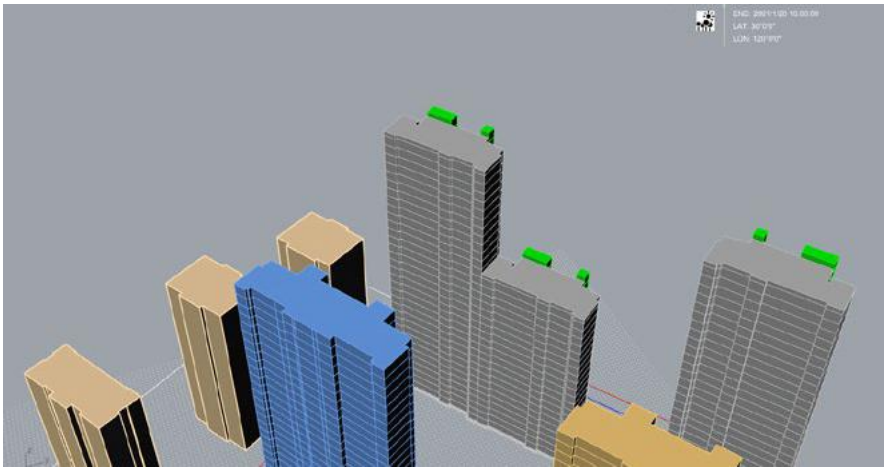
Category: Analysis and Simulation

Sunflower is a groundbreaking and transformative tool in the field of real-time solar analysis, offering unparalleled benefits and efficiency improvements for designers.

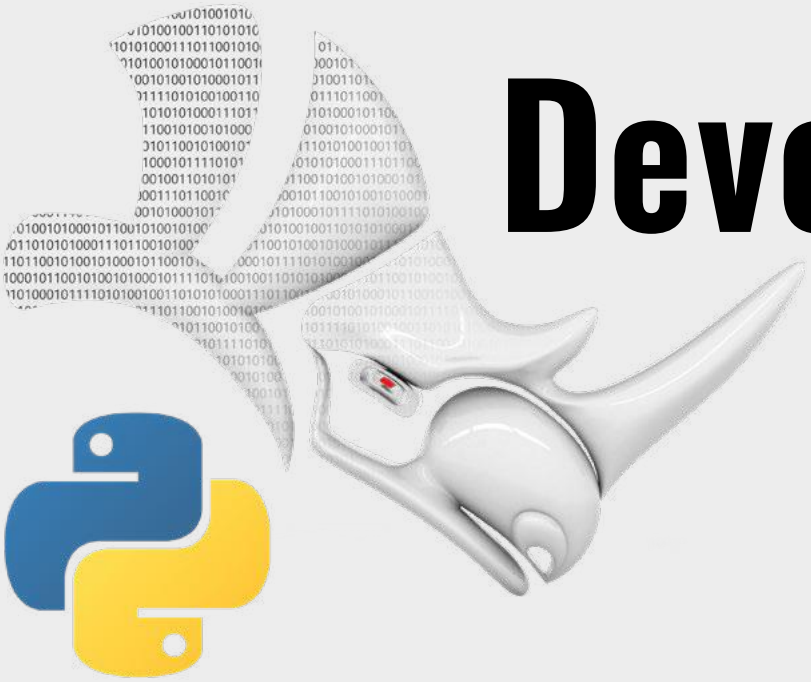
Sunflower is an innovative plugin designed for the Rhino platform, enabling real-time solar analysis and automatic statistics. This powerful tool is transforming the way designers approach their projects. By leveraging advanced algorithms, Sunflower combines CPU multithreading and GPU parallel computing to maximize hardware resources, resulting in significantly enhanced efficiency.

Designed to support architectural and design professionals, Sunflower offers a real-time, WYSIWYG interactive mode, providing a clear visual representation of solar impacts. This allows designers to quickly and effectively respond to project requirements and improve their performance.





In addition, Sunflower's Reflector extension addresses new regulations on solar reflection pollution. It offers advanced glare analysis for vehicles and buildings, visualizing data in a versatile, parameterized format. This comprehensive tool is a game-changer in parametric analysis, blending technology and design to boost productivity and foster innovation in architecture and beyond.



Developers Corner

Hear it from us.

CPython In Rhino 8

Why should you use Python? Well, Python is meant to be a simple language to read and write that runs both the Windows and Mac versions of Rhino. But more importantly: Python is very popular outside of Rhino! Much of what you learn about Python can be applied in many other domains.

Python 3 is now supported in Rhino 8. CPython 3 is the most modern official version of Python with full support from the extensive Python community behind it.

With this updated Python the newest and most popular libraries are available straight from the official PyPi library collection. This includes over 500,000 Python Modules available anywhere online.

This opens the door for much better support for food AI and machine learning code using the latest open-source libraries available.

Popular packages available are:

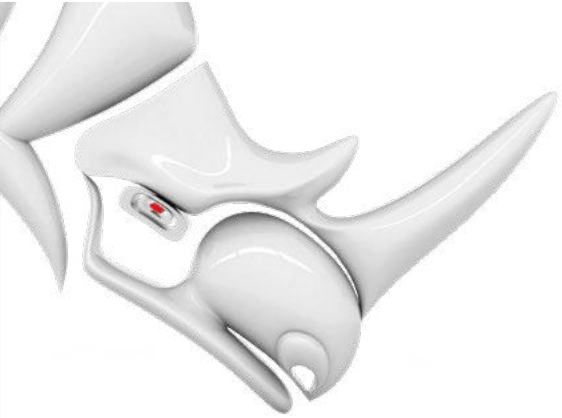
- **Pandas** - easy to use open source data analysis and manipulation tool.
- **Numpy** - popular scientific computing with Python.
- **Scipy** - modules for statistics, optimization, integration, linear algebra, Fourier transforms.
- **pyyaml** - human-readable YAML-serialized data.
- **Pillow** - Python Imaging Library.
- **openpyxl** - library to read/write Excel 2010 xlsx/xlsm/xltx/xltm files.
-

AI and machine learning level libraries:

- **TensorFlow** - TensorFlow makes it easy to create ML models.
- **Keras** - An approachable developer interface with a focus on modern deep-learning techniques.
- **Theano** - A numerical computation Python library, specifically for machine learning.

Click to read our Rhino.Python Guides

Sincerely,
The McNeel Development Team



Tips & Tricks

Elevate Your Rhino Game: Think you know it all? Click now and unravel a collection of game-changing tips & tricks!

Fold Planar Faces
Rhino 7+

Extract Surface
Rhino 7+

Move Face
Rhino 7+

Extrude Face
Rhino 7+

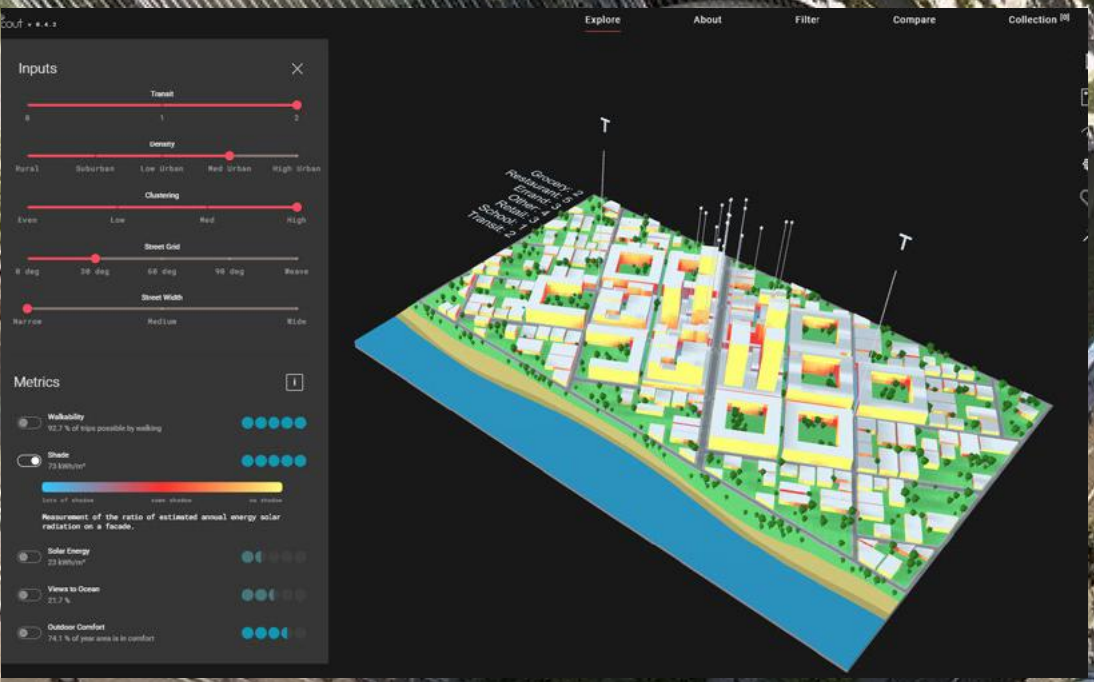
Extrude to a Boundary
Rhino 7+

Split Planar Face
Rhino 7+

Innovation Over Time: KPF's Legacy with Rhino.Compute In-House Developed Plugins

In the dynamic world of architectural innovation, few names resonate as profoundly as Kohn Pedersen Fox (KPF). For nearly half a century, this architectural powerhouse has consistently pushed boundaries, redefining skylines and design paradigms across the globe. Yet, what sets KPF apart isn't just its towering achievements; it's the relentless pursuit of innovation ingrained in its DNA.

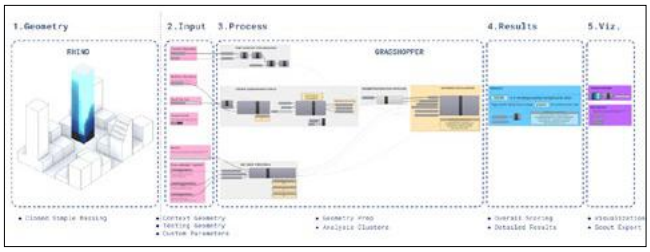
At the heart of KPF's innovative journey lies a commitment to leveraging its rich legacy of knowledge. With 45 years of experience under its belt, the firm recognizes the invaluable wealth of insights garnered over the decades. Rather than resting on past laurels, KPF harnesses this reservoir of expertise to propel itself forward, developing cutting-edge tools like Toucan and Flow Plugin to streamline its in-house design processes.



OPPO Chang An R&D Center by KPF

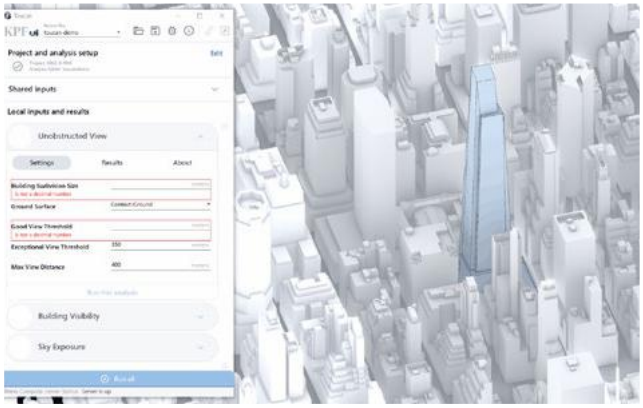
What do you do with 12 years' worth of grasshopper definitions that only the experts use?

DAM, KPF's internal library with documented grasshopper scripts.



KPF's standards for Grasshopper scripts.

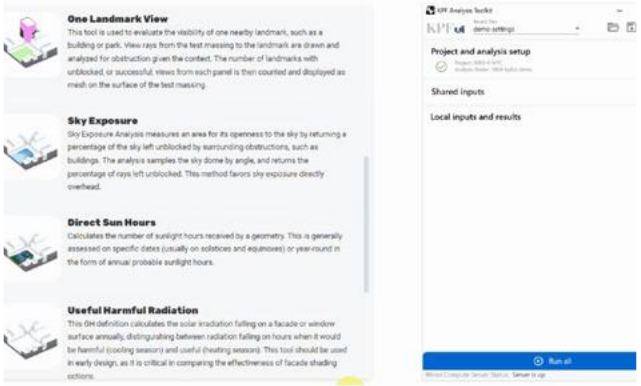
One of the central challenges faced by KPF was the siloed nature of its design tools. With a treasure trove of **Grasshopper** scripts amassed over 12 years, the firm grappled with the dilemma of accessibility. These scripts, while powerful, were confined to the realm of Grasshopper experts, limiting their broader utilization. To bridge this gap, KPF embarked on a transformative journey, culminating in the development of Toucan – a Rhino plugin powered by **Rhino.Compute**.



Toucan plugin developed in-house.

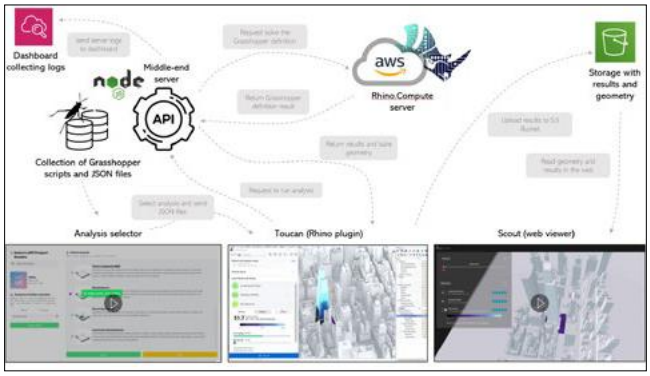
Toucan serves as a gateway, democratizing access to KPF's vast library of Grasshopper scripts. By abstracting the complexity of Grasshopper, the plugin empowers designers of all proficiencies to harness the analytical prowess embedded within these scripts. Gone are the days of dependency on a handful of experts; now, every designer can seamlessly integrate data-driven insights into their workflow.

Example of the analysis results in Toucan.



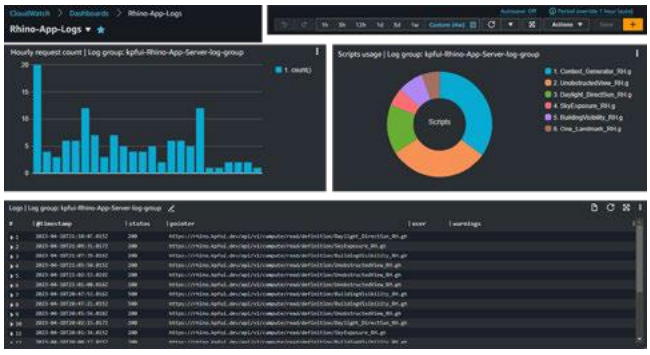
Toucan analysis.

Central to Toucan's functionality is Rhino.Compute, a game-changer in computational design. By offloading heavy computations to a dedicated server, KPF ensures optimal performance and real-time feedback. This synergy between Toucan and Rhino.Compute epitomizes KPF's ethos of innovation – leveraging cutting-edge technology to augment design capabilities.

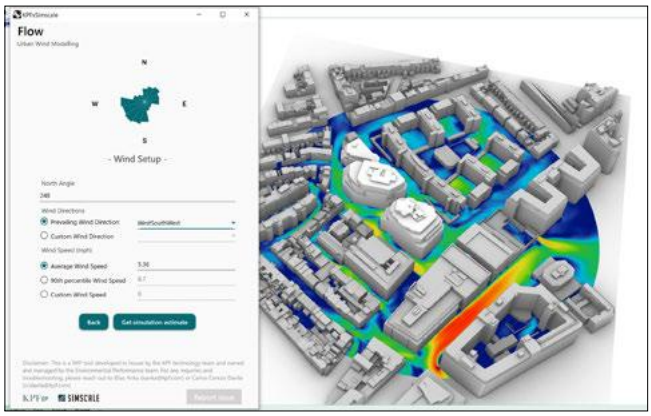


Tool's ecosystem diagram.

Yet, KPF's commitment to innovation extends beyond streamlining design processes. The firm's foray into core planning and area calculations underscores its holistic approach to design. By leveraging image segmentation and similarity search algorithms, KPF transformed years of expertise into structured data, accessible through an intuitive web interface or Rhino plugin.



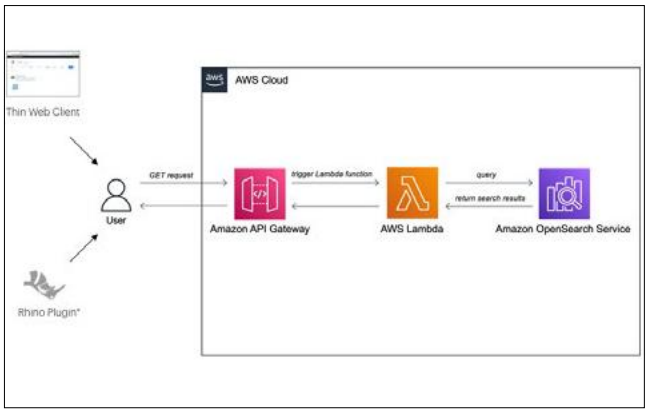
Dashboard with usage logs.



Using Simscale for early design wind modelling for urban environments.

Moreover, KPF's collaboration with Simscale via the Flow Plugin exemplifies its proactive stance towards innovation. By integrating wind modeling seamlessly into the design workflow, the firm empowers architects to optimize urban environments with unparalleled precision.

However, innovation isn't without its challenges. KPF acknowledges the need to navigate the evolving landscape of design technology continually. The firm's proactive approach to addressing user adoption challenges exemplifies its agility and resilience in the face of adversity.



The company built its own API for the core recommendation, granting access from both the web and Rhino platforms.

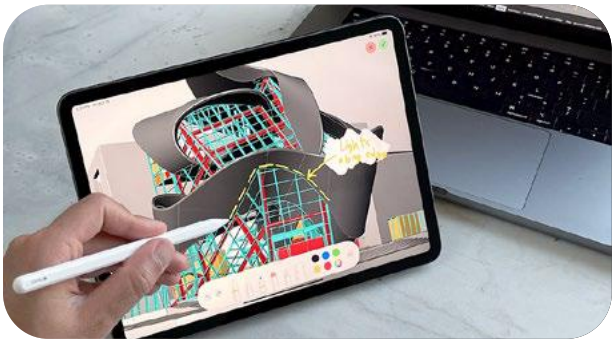
Looking ahead, KPF remains steadfast in its commitment to excellence. As the architectural landscape evolves, the firm's unwavering dedication to innovation serves as a beacon of inspiration. From towering skyscrapers to sustainable urban landscapes, KPF continues to shape the future of architecture, one innovative stride at a time.

In conclusion, KPF's journey epitomizes the transformative power of innovation. By leveraging decades of expertise and embracing cutting-edge technology, the firm transcends boundaries, redefining what's possible in architecture. As the legacy of KPF continues to unfold, one thing remains certain – the future of design is inextricably intertwined with the spirit of innovation.

iRhino 3D

The official Rhino 3dm viewer for iOS.
View and present your work on your iPhone or iPad.

Download on the App Store



Completely Rebuilt

- Rewritten from the ground up, the new iRhino 3D performs and feels exactly like Rhino.
- Pan, zoom, and orbit with a tap or drag of your finger.
- Conveniently load models from your device or any cloud storage using a built-in file browser.
- Use the AR mode to see your model in space.
- Integrated markup tool lets you draw on top of a view.

Supports Many File Formats

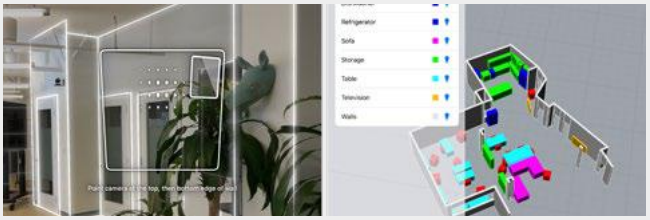
- Open/Import many formats including including Rhino 8, dwg, dxf, glb, gts, iges, lwo, usd, usdz, off, ply, points, raw, slc, stl, vrml, wamit and x.
- Save to Rhino 8 and Rhino 7 3dm file format.

Augmented Reality

View your models in the real world. AR enabled display modes allow you to see your model quickly in the camera feed. Choose from available anchor modes to fine-tune placement of your model.

Scan A Room

Quickly generate a Rhino model from an interior space. Using **RoomPlan** technology on LiDAR enabled devices, you can scan interior elements such as walls, windows, doors, cabinetry and furniture and get the resulting model in a 3DM format.

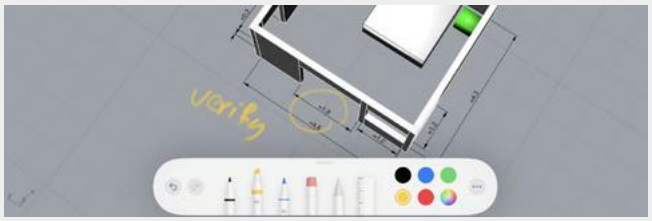


Features

Augmented Reality Mode

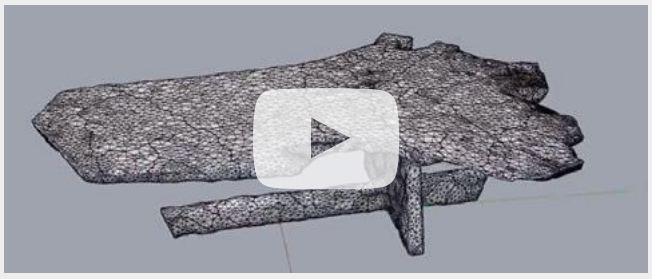
Markups

Navigate your model and draw on any view without leaving the app.



Scan An Object

Scan a fully textured mesh of an object using this feature, powered by Apple's **Object Capture** technology.



And Many More ...

Learning

Akiyo Matsuoka

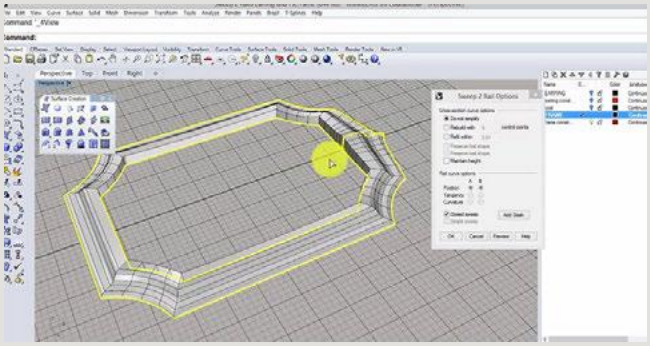
About Akiyo

Akiyo Matsuoka began her design career with Escada in 1993, gaining acclaim as a 1994 Diamonds-International Awards finalist. A Parsons School of Design graduate, her work blends nature, music, and sculpture. Renowned for her "Silhouettes of Nature," worn by celebrities, her designs grace top fashion magazines and luxury retailers globally. She also teaches and consults in jewelry design and Rhino 3D modeling.

Why taking Akiyo's training course, rather than learning on your own?

Her training provides a comprehensive, interactive learning experience to advance your Rhino 3D CAD skills. With a structured curriculum, expert guidance, and practical problem-solving, you'll gain a solid foundation. Interactive online classes and remote assistance ensure you receive real-time support, while recorded sessions offer flexible scheduling for review.

Introduction to Rhino 3D Modeling "Live" Online



This class builds a solid foundation in Rhino 7, covering 3D NURBS modeling and advanced surfacing. Ideal for jewelers and other professionals, it includes step-by-step exercises and extensive digital resources.

DATES: July 10, 17, 24, 31, Aug. 7, 14 & 21 (7 sessions)
TIME: Wednesdays, 6:45 to 9:45 pm (EDT)

Register

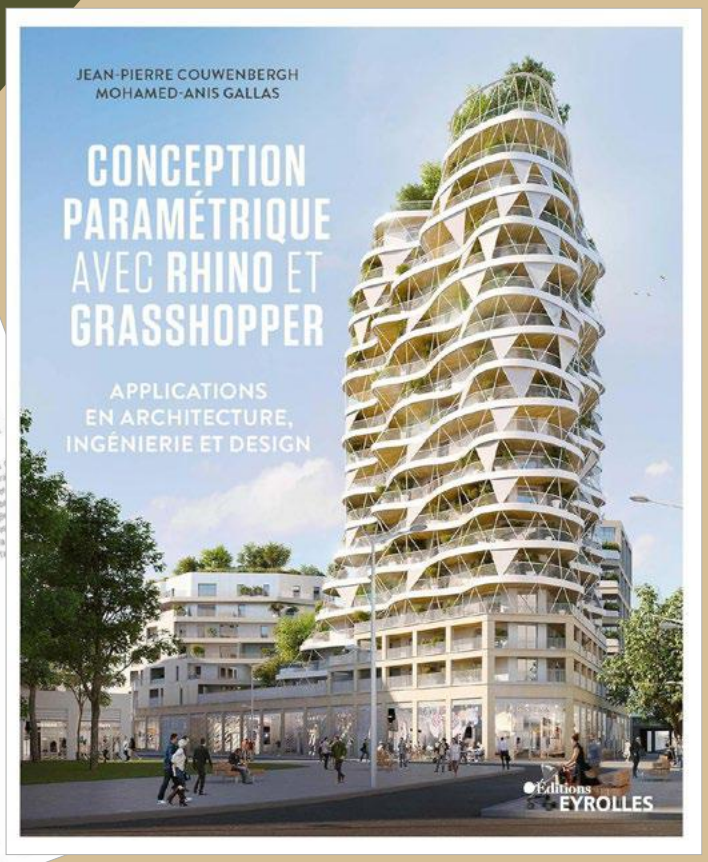
Intermediate Rhino/KeyShot Rendering "Live" Online

This class is for those with basic Rhino 3D modeling skills. Learn jewelry design through exercises like engagement rings. Discover shortcuts and tricks, and master photo-realistic rendering with KeyShot for stunning portfolio visuals.

DATES: Sept. 4, 11, 18, 25, Oct. 2 & 9 (6 sessions)
TIME: Wednesdays, 6:45 to 9:45 pm (EDT)

Register

Book Discoveries



Conception paramétrique avec Rhino et Grasshopper by Jean-Pierre Couwenbergh and Mohamed-Anis Gallas

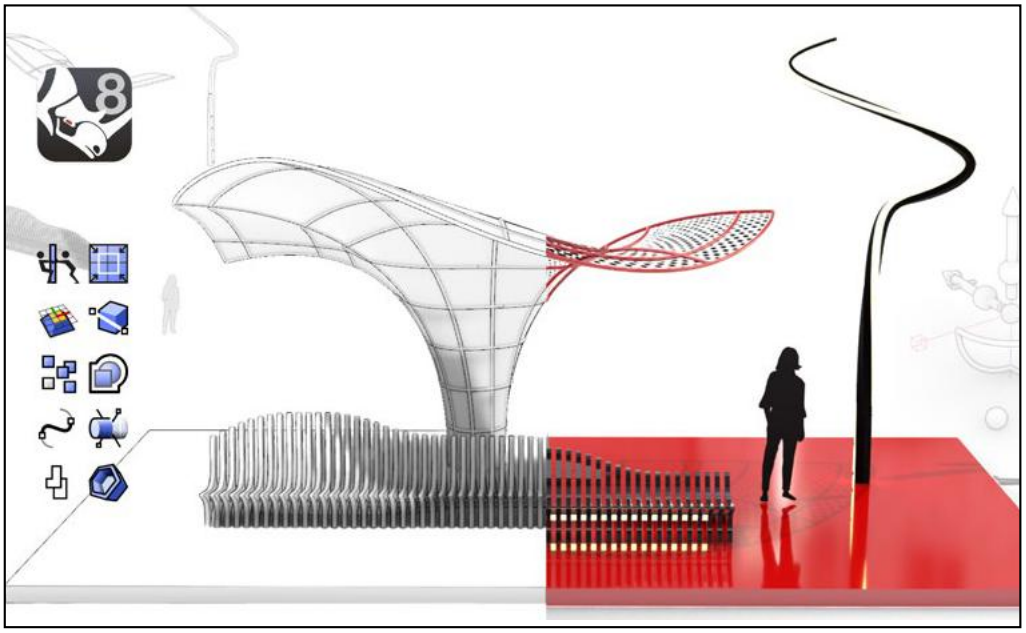
Embark on an enriching exploration into parametric design with a comprehensive guide tailored for French speakers. Parametric design, pivotal in architecture, engineering, and design, empowers practitioners to craft intricate structures through easily adjustable parameters. This guide delves into Rhino and Grasshopper, offering insights from mastering Rhinoceros to navigating Grasshopper's interface.

Readers learn complex geometric modeling, surface manipulation, data extraction, and parametric construction systems. Integration with BIM is explored, connecting Archicad and Rhino/Grasshopper, as well as Revit and Rhino/Grasshopper. Real-world examples, like the Belgian Embassy project in Kinshasa and Jean-Claude Virleux's sculpture "L'Origine de la Vie," enrich understanding.

Whether you're a seasoned professional or a student, this guide illuminates parametric design's potential. With a blend of theory and practical application, it serves as a beacon of knowledge in computational design's ever-evolving landscape.

get it now

Rhino 8 Intermediate



Fee: US$79.95 / Enjoy 20% OFF with coupon code: RHINO3DEDUCATION20 at checkout!

Explore advanced 3D modeling techniques with Rhino 8 Intermediate!

This course is designed for both seasoned designers and those looking to enhance their skills, offering a transformative journey from intermediate modeling to sophisticated digital creations. In just 6 hours, immerse yourself in engaging videos, insightful lectures, and practical exercises.

Immerse yourself in the course using your preferred language!

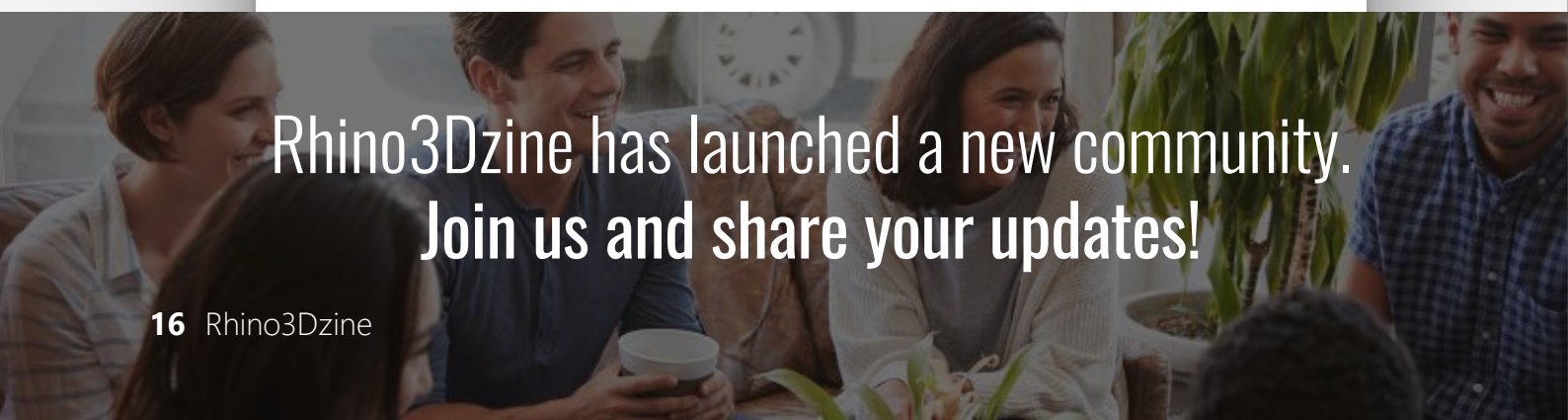
Available in English and Spanish,
with subtitles in Italian, French, Portuguese, and German.

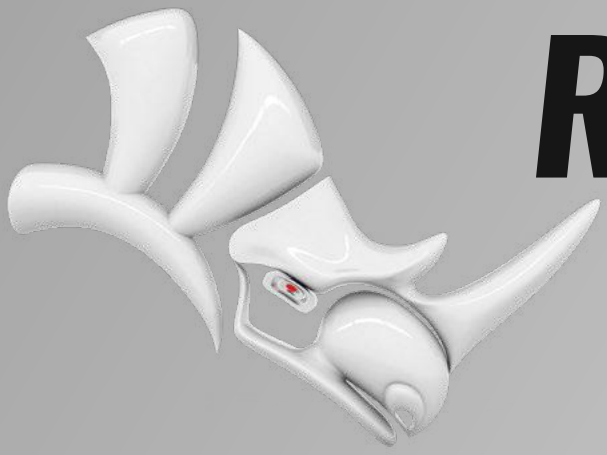
Key topics include curves, surfaces, organic solids, SubD, smart objects, animation, and rendering. Rhino 8 serves as your essential tool, unlocking new possibilities and elevating your design capabilities.

The course comprises 4 hours of comprehensive instruction for design and production professionals, followed by 2 hours of hands-on exercises. You'll learn to apply advanced concepts to create complex geometries efficiently.

After purchase, this course will be available for two years!

Enroll now and elevate your 3D modeling proficiency with Rhino 8 Intermediate!





Rhino3D Education

with more than 34,000 students...

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New to Rhino?

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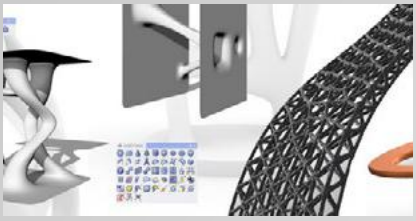
SubD in Rhino 7



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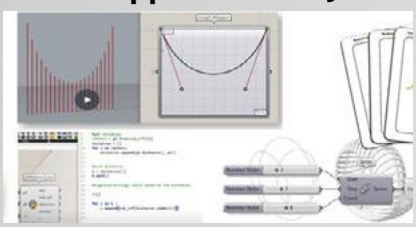

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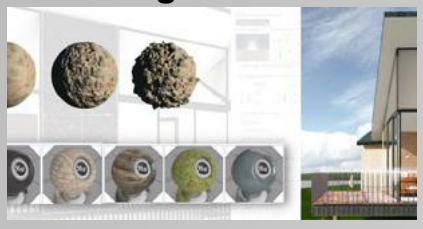
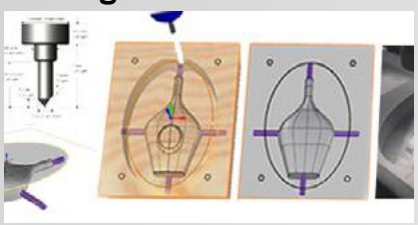


Jewelry

Digital Fabrication



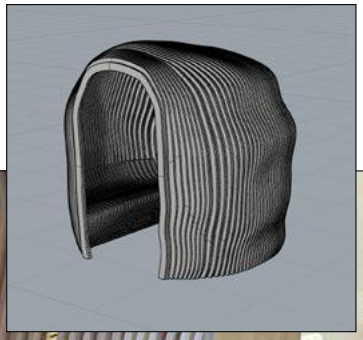
Marine Design

Podcasts & Webinars

www.Rhino3D.Education

Shellbical Pavilion

- Digital Fabricators Project



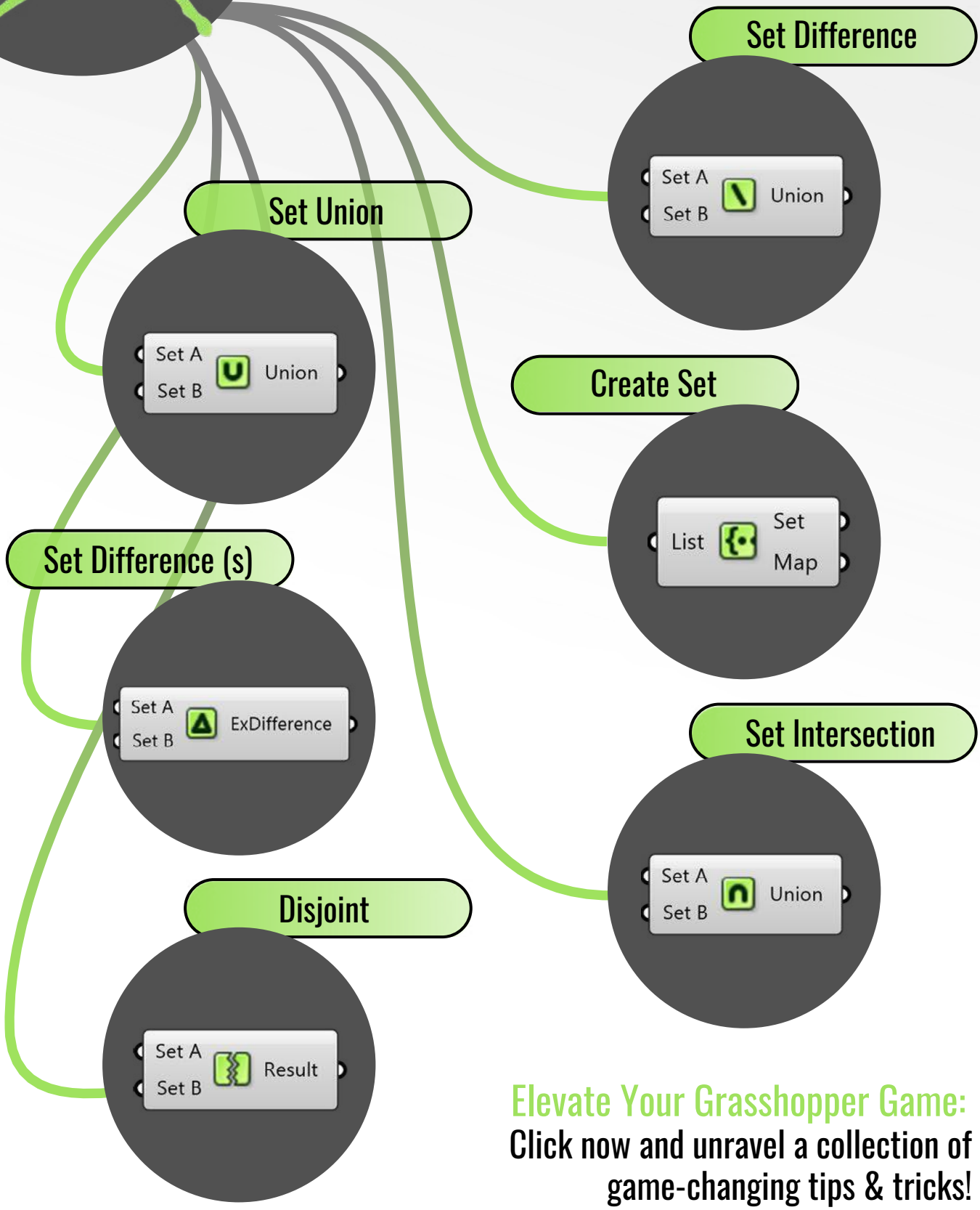
The Shellbical Pavilion emerged as a collaborative endeavor from students enrolled in the Digital Construction Bachelor's program at Lucerne University of Applied Sciences and Arts (HSLU). The project was born out of the Module Digital Construction Studio 3: Digital Fabrication, a key component of the Digital Construction course at HSLU.

The team, comprising of Philipp Hänggi, Loris Faiss, Wendy Truong, and Patrick Vecellio, embarked on the challenge of designing and fabricating a meeting box using digital design and production methods. Their aim was to maximize stability while minimizing material usage, a task that required innovative thinking.

Through meticulous planning and experimentation, the group settled on a layered structure as the optimal solution. Utilizing Rhino and Grasshopper proved instrumental in shaping the final design. With the design finalized, the box underwent production using a conventional CNC milling machine, followed by meticulous hand assembly.

The Shellbical project stands as a testament to the innovative spirit and collaborative efforts of students at HSLU, showcasing the potential of digital fabrication techniques in achieving both efficiency and structural integrity in construction projects.

Tips, Tricks &
resources about Grasshopper



Elevate Your Grasshopper Game:
Click now and unravel a collection of game-changing tips & tricks!

Matteo Bulla's Thesis on Digital Shoe Design

Matteo Bulla's thesis project, showcased at Performance Days 2024 in Munich, delves into the transformative power of digital tools in footwear design. As an industrial designer with a background from **Politecnico di Milano**, Bulla's expertise lies in merging creative innovation with technical precision, particularly through 3D modeling and visualization using Rhinoceros.

Ideation and Design Phase

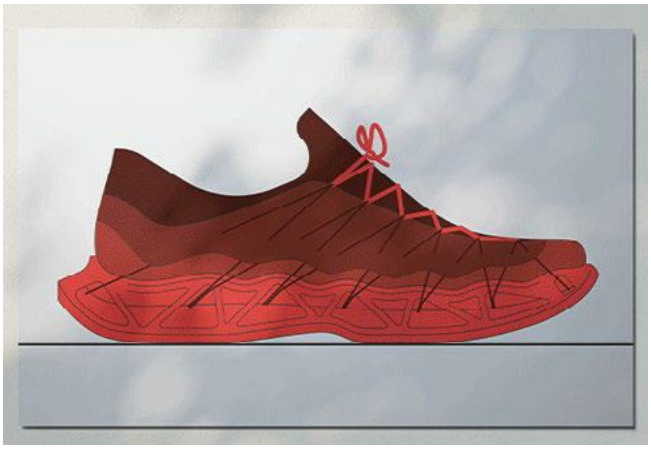
The project's inception revolved around the digitization of the entire footwear design process. Starting with the creation of a digital last, Bulla utilized Rhinoceros to develop intricate 3D models of the shoe's sole and upper. Rhinoceros' surface-based modeling capabilities allowed for detailed and flexible design work, accommodating both the technical and aesthetic aspects of the project.

Production Insights and Technological Tools

During the production phase, the incorporation of various digital fabrication techniques played a crucial role. Bulla explored Fused Granulate Fabrication (FGF) for the soles, using TPE-S 59A pellets to achieve optimal cushioning and flexibility. The design featured a unique pattern of interlocking K-shaped and triangular concave forms, enhancing both functionality and visual appeal. Rhinoceros facilitated the complex modeling required, particularly with tools

like Sweep2 and Crv2View for generating 3D curves and surfaces from 2D outlines.

For the shoe upper, Bulla collaborated with **Sneaknit**, leveraging their expertise in 3D knitting to create a structure that connected with the 3D-printed sole. The 3D printing was carried out in collaboration with **Direct3D-Pellet Extrusion**, highlighting the potential of combining different digital fabrication techniques to achieve a cohesive final product.



Overcoming Challenges

One of the significant challenges faced during the project was ensuring the sustainability of the design. Traditional methods using adhesives compromised recyclability and ease of disassembly. Bulla addressed this by devising a glue-less assembly system, where 3D knitted canals and 3D printed shapes were secured with laces wrapping around the shoe. This innovative approach not only enhanced the sustainability of the design but also maintained structural integrity.

Strategic Collaborations

The project's success was bolstered by collaborations with various experts and companies. Key contributors included Rucky Zambrano for design insights, Professor Riccardo Gatti, and Andrea Rondoni and Valentino Parlato from **Arsutoria**, a school for shoe and bag design, who provided invaluable support in their respective domains.

Final Prototype and Refinements

The final prototype, meticulously refined to align with ergonomic principles, showcased a dynamic interplay between the sole and upper. The sole's design was optimized for urban settings, providing cushioning, stability, and flexibility through various phases of walking. The upper's construction, involving a tie rod and buckle mechanism, ensured a secure and comfortable fit without the need for adhesives.

Matteo Bulla's thesis project exemplifies the potential of digital tools in revolutionizing footwear design – blending creativity with technical precision to create innovative, sustainable products.

Upcoming Events

Hone Your Skills With Rhino

GRASSHOPPER UK USER MEETING

HOSTED BY SIMPLYRHINO - JUN 12, 2024

A live in-person event for the Grasshopper (Rhino3D) UK Community, featuring presentations from Grasshopper users as well as invited guests from Populous and VisualARQ. Join an audience of eager users and enthusiasts for a great night!

WHERE: London **TIME:** 6 - 10:30PM BST
COST: Free **LANGUAGE:** English

SSMC 10TH ANNIVERSARY CONFERENCE

HOSTED BY SSMC - JULY 9-11, 2024

Visit beautiful Manoa for the 10th iteration of the Student Shop Managers Consortium Conference. This year's conference will center around three standing committees, Health & Safety + Risk Management, Diversity & Inclusion, and Standard Operating Procedures.

WHERE: Manoa, Hawaii **TIME:** Varies
COST: USD 500 **LANGUAGE:** English

GRASSHOPPER LEVEL 2 TRAINING

HOSTED BY MCNEEL EUROPE - JUN 17-19, 2024

Looking to expand what you can do in Grasshopper? Look no further than this Level 2 training course taught by Ping-Hsiang Chen, a renowned computational designer. This three-day course will cover a variety of topics that will help advance your modeling skills.

WHERE: Online **TIME:** 10A - 5P CEST
COST: EUR 395 **LANGUAGE:** English

RE/IMAGINE LIQUID GROUNDS

HOSTED BY AA VISITING SCHOOL - JULY 18-27, 2024

This Rhino-centric workshop takes place over a week and hones in on 3D modeling and parametric design with a focus on the river and waterways of São Paulo. Students are encouraged to dream a better urban future while expanding their design skills.

WHERE: São Paulo, Brazil **TIME:** Varies
COST: 4.330 REAIS **LANGUAGE:** Portuguese

Career Corner:

Job Opportunities with Rhino or Grasshopper

Have a job offer or event? Let us know, and we'll share it in an upcoming issue.

DIGITAL PRODUCER
WALT DISNEY IMAGINEERING

WHO: Walt Disney Imagineering is the creative force that imagines, designs, and brings to life all Disney theme parks, resorts, attractions, and cruise ships worldwide.

WHAT: Seeking a 30-month project hire who will oversee the creation of digital media imagery for the project from beginning to end. 7+ years experience with Rhino and Revit preferred.

more info

SENIOR PRODUCT DESIGNER
MATTEL

WHO: The world's largest and most well-known toy manufacturer, home to dozens of iconic and beloved brands, including Barbie, Hot Wheels & more.

WHAT: Seeking an experienced product designer to join the vehicle tracks and playsets team, with a focus on Hot Wheels and Thomas & Friends toy sets.

more info

SENIOR DESIGNER
OBM MIAMI INC

WHO: OBMI are architects of storied places around the globe. Their specialty is excellence in design and planning that drives a constant reinvention of luxury in hospitality and ultra-high-end residences.

WHAT: Seeking a designer to assist in developing design concepts and details for luxury destinations, working under the guidance of a Lead Designer and also independently on specific components of larger projects.

more info

DESIGN PROFESSIONAL
HOK

WHO: A global design, architecture, engineering, and planning firm with 26 offices on three continents.

WHAT: Seeking a design professional for Boston office to assist the design team and prepare and modifies architectural documents, elevations, sections, details, etc. as directed by others utilizing Building Information Modeling (BIM), and prepare 2D and 3D designs for review.

more info

Coupon Corner

June 5th - Aug. 5th

Rhino3Dzine
Exclusive Coupons

DesignMorphine Masters Y24/25

Discount:

1000€

Coupon Code: **DMMasters100**

* This coupon code is limited to a single use.
* The coupon should be entered in the field labeled "How did you hear about the program?"
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Discount:

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Coupon Code: **DMMasters101**

* This coupon code is limited to a single use.
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* The coupon cannot be combined with a scholarship.

Akiyo Matsuoka

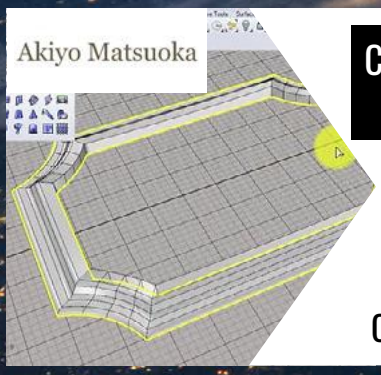
Book (PDF): The Essential Guide To Digital Jewelry Design

Discount:

10%

Coupon Code: **GH10**

Akiyo Matsuoka



Courses Listed On Page 14

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Step By Step Intro To SubD

Discount:

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*Coupons valid from June 5th 2024 to August 5th 2024./ * Information and coupons provided are based on third-party collaboration and are deemed accurate. Rhino3Dzine (McNeel Miami) is not liable for any issues arising from their use. If you have any problems, please contact the provider./ * Unfortunately, coupon codes can't be added retrospectively. In order to receive the discount, coupon codes need to be added when prompted during the checkout process.

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