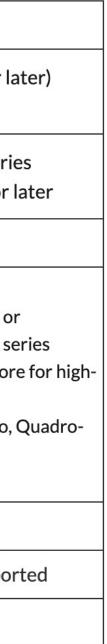
# SYSTEM REQUIREMENTS Marvelous Designer

#### Mac

Category	Minimum	Recommended	Category	Minimum	Recommended
Mac models	Macbook 2012, Macbook Pro 2012 iMac 2012, iMac Pro 2012 Mac Pro 2013, Mac Mini 2018	Intel-chip Macs released after 2018 Apple Silicon Macs: M1, M1 Pro, M1 Max, M1 Ultra, M2	OS	Windows 10 64-bit (1903 or later)	Windows 10 64-bit (21H1 or late Windows 11 64-bit
			Processor	AMD® Ryzen 5 1500X Intel® Core-i5 6400	AMD® Ryzen 7/9 5000 series Intel® Core-i7/i9 11th Gen or lat
MacOS	Catalina 10.15	Catalina 10.15, Big Sur 11.4, Monterey 12	Memory	DDR4 8GB	DDR4 32GB or more
Processor	Intel® Core-i5 4cores	Intel® Core-i9 or Apple Silicon	Graphics card	NVIDIA® GeForce GTX 960 or	NVIDIA® RTX 3000 series or NVIDIA® Quadro RTX , RTX A seri - At least 8GB of video memory or more f res textures - Latest Nvidia Drivers: GRD, Studio, Qu ODE
Memory	DDR4 8GB	DDR4 32GB or more			
Storage	HDD 10GB or more	SSD 20GB or more		NVIDIA® Quadro P2200	
Screen	1280×800	Retina 4K, Retina 5K supported			
Input devices	3-button mouse	3-button mouse	Storage	HDD 10GB or more	SSD 20GB or more
			Screen	1920x1080@60Hz	2560x1440@60Hz, 4K supporte
			Input device	3-button mouse	3-button mouse

#### Windows



## SYSTEM REQUIREMENTS Blender

#### Minimum

- 64-bit quad core CPU with SSE2 support
- 8 GB RAM
- Full HD display
- Mouse, trackpad or pen+tablet
- Graphics card with 2 GB RAM, OpenGL 4.3
- Less than 10 year old

### Supported Graphics Cards

Always make sure to install the latest drivers from the graphics card manufacturer website. These requirements are for basic Blender operation, Cycles rendering using the GPU has higher <u>requirements</u>.

#### **NVIDIA**

GeForce 400 and newer, Quadro Tesla GPU architecture and newer, including RTX-based cards, with NVIDIA drivers (list of all GeForce and Quadro GPUs)

### AMD

GCN 1<sup>st</sup> gen and newer. Since Blender 2.91, Terascale 2 architecture is fully deprecated, try using 2.90 (albeit not supported, it might still work) [list of all <u>AMD GPUs]</u>

#### Intel

Haswell architecture and newer. [list of all Intel GPUs]

#### macOS

Version 10.13 or newer for Intel processors on supported hardware. Version 11.0 for Arm-based processors (Apple Silicon).

#### Recommended

- 64-bit eight core CPU
- 32 GB RAM
- 2560×1440 display
- Three button mouse or pen+tablet
- Graphics card with 8 GB RAM

### **SYSTEM REQUIREMENTS Substance Painter**

Don't worry too much if Substance Painter causes issues for you, texturing can also be done in Blender/C4D.

Platform	Minimum	F
Windows	<ul> <li>OS: Windows 10 (64bit, version 1909)</li> <li>CPU: <ul> <li>Intel Core i3</li> <li>AMD Ryzen 3</li> </ul> </li> <li>GPU: <ul> <li>Nvidia Geforce GTX 1060</li> <li>Nvidia Quadro M2000</li> <li>AMD Radeon RX 580</li> </ul> </li> <li>YRAM: 4GB</li> <li>RAM: 8GB</li> <li>Hard drive: 20 GB HDD</li> </ul>	
Mac OS	<ul> <li>Model: MacBook Pro 2019</li> <li>OS: Mac OS 10.14 (Mojave)</li> <li>CPU! <ul> <li>Intel Core i7</li> </ul> </li> <li>GPU! <ul> <li>AMD Radeon Pro 5300M</li> </ul> </li> <li>RAM: 8GB</li> <li>Hard drive: 10 GB HDD</li> </ul>	

Recommended	Optimal
<ul> <li>OS: Windows 10 (64bit)</li> <li>CPU: <ul> <li>Intel Core i7</li> <li>AMD Ryzen 7</li> </ul> </li> <li>GPU: <ul> <li>Nvidia Geforce RTX</li> <li>2080</li> </ul> </li> <li>Nvidia Quadro RTX</li> <li>4000</li> <li>AMD Radeon RX 6700 XT</li> </ul> <li>VRAM: 8GB</li> <li>RAM: 16GB</li> <li>Hard drive: 30 GB SSD</li>	<ul> <li>OS: Windows 10 (64bit)</li> <li>CPU: <ul> <li>Intel Core i9</li> <li>AMD Ryzen 9</li> </ul> </li> <li>GPU: <ul> <li>Nvidia Geforce RTX</li> <li>3080</li> <li>Nvidia Quadro RTX</li> <li>6000</li> <li>AMD Radeon RX 6800 XT</li> </ul> </li> <li>VRAM: 16GB</li> <li>RAM: 32GB</li> <li>Hard drive: 50 GB SSD</li> </ul>
<ul> <li>Model:</li> <li>MacBook Pro 2020</li> <li>iMac Pro 2020</li> <li>iMac OS 11 (Big Sur)</li> <li>OS: Mac OS 11 (Big Sur)</li> <li>OS: Mac Core i9</li> <li>Intel Core i9</li> <li>GPU:</li> <li>AMD Radeon Pro 5600M</li> <li>AMD Radeon Pro Vega 56</li> </ul>	<ul> <li>Model: Mac Pro</li> <li>OS: Mac OS 11 (Big Sur)</li> <li>CPU: <ul> <li>Intel Xeon W9</li> </ul> </li> <li>GPU: <ul> <li>AMD Radeon Pro W5700X</li> </ul> </li> <li>RAM: 32GB</li> <li>Hard drive: 50 GB SSD</li> </ul>

- **RAM**: 16GB
- Hard drive: 25 GB SSD