

# Experience the web

Discover how a Dell Precision 15 5000 Series workstation, Windows 10 and Microsoft Edge will push forward your design and development

**A** new workstation brings you more power, better graphics and a shiny new OS. The inclusion of Edge in Windows 10 brings a seriously supported web browser for web designers and developers. With all the right ingredients in place the design and development process will run far more efficiently and smoothly, leaving you more time to concentrate on the finer points of a project. Throw in a smarter, sharper monitor and you will be able to design with pixel-perfect accuracy and create sites that ooze pure class. The better your equipment, the better your finished project has the potential to be.

Dell Precision 15 5000 Series workstations bring all these elements together in one neat and attractive package. It offers mobility along with the power of a desktop. A more traditional notebook *can* cope with code-intensive, design heavy projects, but typically they lack the right components and struggle to

bring them to life. A powerhouse like the Dell Precision 15 5000 Series will have no such trouble. It packs enough punch to nail web projects and greater improve your workflow. Ever tried unleashing a three.js project on an underpowered machine? If you have you will know it can take an age for a project to load and when it does it can't cope with the frame rate. Your beautifully-crafted 3D creation stutters through its 15 seconds of fame and ultimately disappoints and doesn't impress anyone. To be on the cutting-edge of web design and development you need cutting-edge hardware.

So what does the Dell Precision 15 have hiding beneath is crisp, clean surface? The key hardware components are the speedy Intel Xeon E3-1505M V5 processor and Nvidia Quadro graphics - this combo harbours the power to handle any web project from concept to completion. The best bit is that not only will it be able to cope with whatever you can throw at it now,



but when new, more powerful libraries and frameworks emerge it will still be able to cope admirably, ensuring that you're always right at the cutting edge and running rings around your fellow designers and developers.

## A NEW OS CALLED 10

Windows 10 is Microsoft's latest version of its ever-popular OS. It is built with multitasking in mind, which makes Windows 10 a perfect fit for designers and developers who want to keep an eye on emails while working on the intricacies of the CSS behind the latest user interface design or the Canvas code that is needed to power your newest 3D extravaganza. So, what does Windows 10 have to offer on an everyday level? The Start button has returned having been dropped for the initial release of Windows 8; the tiled apps of Windows 8 are still a prominent feature and Cortana, your personal assistant within Windows 10, is now integrated into the operating system. Windows is now offering much more to designers and developers looking for the ultimate build experience. The multitasking aspect of the new system is much talked about, and it fits in with the modern computing experience, but it's also a feature that designers and developers can really exploit for a better build process. The ability to see windows side by side makes the organisation of your work even more visual, like you're flicking between pictures on a desk. Add to the mix that you can snap four windows to the four corners of your screen, and you have a setup almost tailor-made for anyone creating with the latest libraries, frameworks and tools. The ability to quickly switch between applications is crucial when designing and developing. There is always a need to look at different screens quickly. Every time code is modified it needs to be saved and

“You have a setup almost tailor-made for anyone creating with the latest libraries, frameworks and tools”



previewed to make sure it works as intended. The quicker this can be done the more efficient your workflow will become, which is crucial.

## BEST BROWSER FOR THE JOB

Windows 10 was developed with tools like Adobe Creative Cloud in mind, making it ideal for web designers who loves to get creative with Photoshop. But it's the browser where the world gets to see a site. It's where the real work gets done for both designers and developers. Microsoft has finally put Internet Explorer to bed with the introduction of Edge. The browser has put its history behind it and now easily competes with the other major browsers out there, but what does Edge have to offer? First up, its design is simple and efficient making for ease of use. The simpler design means that users will want to experience it. If consumers start to use it then designers and developers will simply need to add it to their collection of tools. The beauty of Edge, as well as being fast and secure, is that it offers good support for the new technologies that designers and developers will be using as soon as the other browsers catch up. It is currently the only browser out there that has any form of support for CSS Grid layouts, a specification that is considered the future of layouts and one that designers and developers are itching to implement and use.

This is before you get to touch drawing and the ability to share web notes directly in the browser - allowing you and your team to work perfectly in cohesion to ensure that your build gets done quickly, and gets done right.

## SPEED AND POWER

Web design and development seems to become more intensive by the day, putting added pressure



## Why choose Windows 10?

Microsoft's new OS offers all the flexibility you need

Windows 10 is a significant step towards your operating system, integrating seamlessly into your busy development schedule. Sporting everything you could ever need to keep yourself organised and working at maximum efficiency, it's an operating system with your personal needs at heart.

By taking advantage of exciting new functions like the Snap feature, which allows you to snap up to four different apps into the four corners of the screen, you'll discover new ways to streamline your workflow. Approaching deadline? Snap your emails to the corner of the screen and remain client-facing, while still keeping an eye on your code. Need to see a webpage preview? Snap your web browser and code away without the need for switching between windows. As designers and developers, we're always looking for ways to improve our workflow - features like Snap have been built with this need of exciting, unimpeded productivity in mind.

On top of this, Edge is a browser that is making an impact. If you need a cutting-edge browser to test with then Edge is the ideal choice. There is support for CSS Grid layouts, which is considered the future of layouts and currently not supported in any of the major browsers. What else does it offer? It's faster than the competition and has a high level of security - exciting and essential.

So why choose Windows 10? It's simple - whatever your discipline, whatever your interests, Windows 10 offers the definitive 21st century solution for designers and developers with busy work lives, and busy social lives too. Blending typical Microsoft ease of use with new, forward-thinking tools like Cortana, Snap and Edge, Windows 10 is the perfect way to augment your digital life.

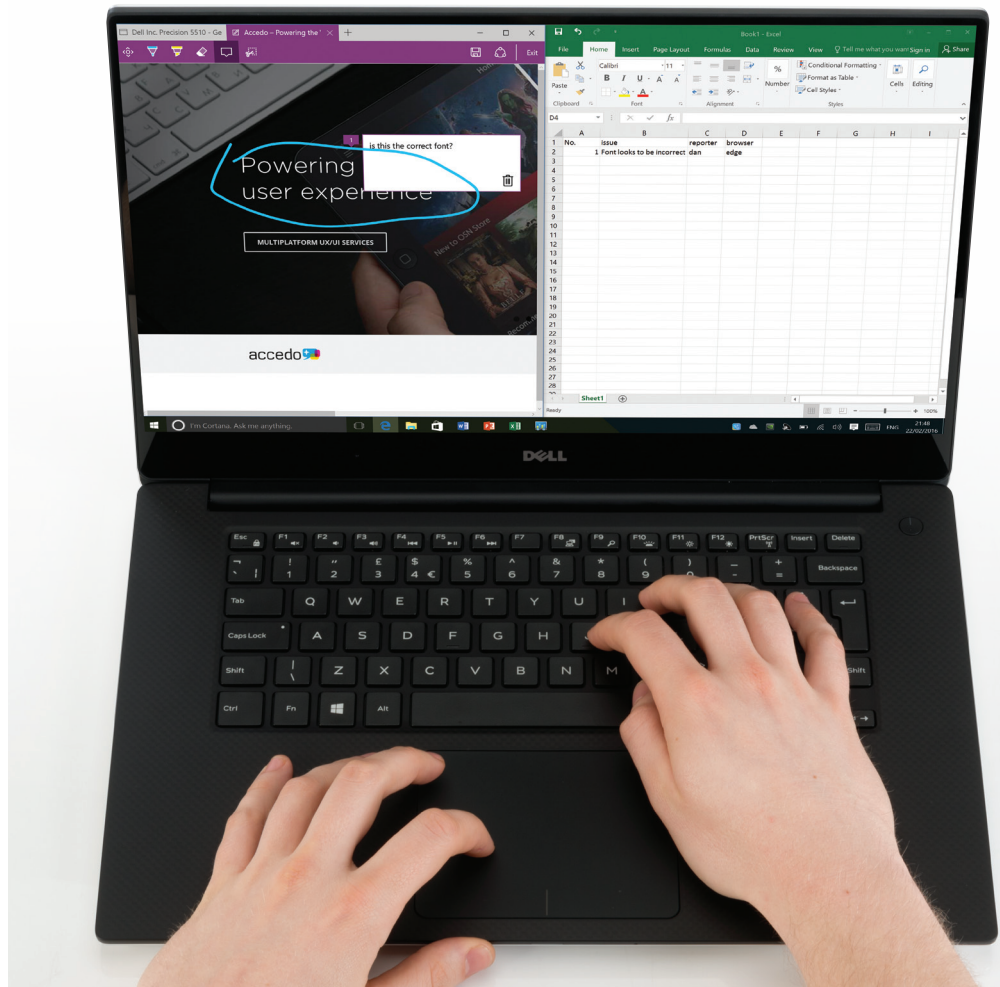
on your computer as a result – especially when working with animation and 3D effects. As you might expect, you need a powerful processor to handle these strenuous tasks. A CPU with more cores and a high clock speed means a more efficient workstation capable of bigger projects and more ambitious multitasking.

Intel Xeon processors are synonymous with speed and power, operating at a professional level and coping easily with tough tasks – perfect for anyone creating code-intensive projects. Intel Xeon CPUs are becoming pretty much essential for anyone working with the latest technology like WebGL and 3D. The more power at your disposal, the quicker these projects will render and the quicker you get to see the final result in action.

### PIXEL-PERFECT VISUALS

It's the graphics card's job to display images on screen, process them quickly and take away some strain from the processor, which will no doubt be of use when working on anything visually advanced or animated projects. Understandably, it's imperative for a designer or developer to use a good graphics card in their setup – preferably a professional one, which runs at a level of performance that you won't see in other products.

Dell Precision 15 5000 Series workstations utilise Nvidia Quadro M1000M graphics as standard. Offering 2GB of VRAM and 512 CUDA cores. The benefits of a decent graphics system cannot be underestimated. Drawing with HTML5 Canvas, creating 3D with WebGL or three.js can be graphically-intensive with fast frame rates that need to operate as intended. When demonstrating a project, if it doesn't run smoothly it gives the impression of being poorly designed and ultimately unprofessional. Video has become another integral part of the web experience. Whether loading from YouTube or your own server, the transition needs to be smooth. There is nothing worse than a video being viewed at a lower rate.



### SUPERSHARP RESOLUTION

With all of this power and speed available it's easy to overlook the importance of an awesome display. Dell Precision 15 5000 Series workstations rock a supersharp 3840x2160 4K resolution, and wide-view 15.6-inch-sized, LED-backlit screens. Whether you're busily creating pixel-perfect designs or peering at endless lines of code you'll find colleagues of older portable systems envying the 5000 Series' crystal-clear display. One screen may not be enough for designers and developers,

however two screens can be great: so why not code on one and design on another? The perfect companion to the standard screen is the 32" Dell UltraSharp UP3216Q monitor with its 4K resolution making everything a pleasure to look at.

Investing in an external display like the Dell UltraSharp UP3216Q is also a fantastic solution for those of you that love to remain client facing when working on a build. Keeping Skype or your emails open on a second screen is the perfect way to remain responsive when working with a customer.

## Expert opinion: Daniel Jenkins

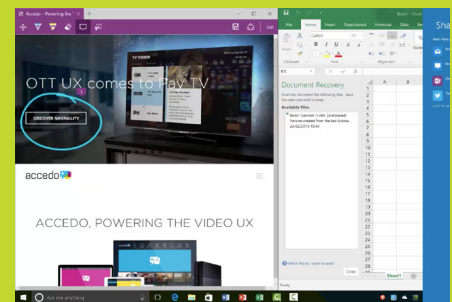
The veteran JavaScript and app developer gets hands-on with the Dell Precision 15 5000 Series

"In a world driven by smartphones and tablets we sometimes forget how productive a well-designed workstation really is. The form factor of the Dell 5510 and its inputs made me feel quickly at home on Windows 10 – switching between applications, tabs and screens felt intuitive and I soon forgot this wasn't a handheld device. I recently used the Dell with our QA team during testing to report feedback on a website launch. Testing websites in Edge is a dream; touch-drawing and sharing web notes lets development see the exact issue in browser.

Coupled with the 4K screen and Snap features, we could easily run two apps side by side.

"The one thing that everyone noted was the screen quality: one designer even revisited their own monitor's colour profile after seeing Dell's colour replication! Photography also has greater definition and vector images look infinitely crisp.

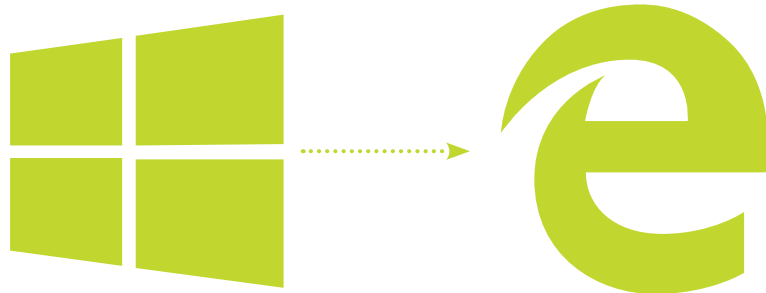
"The Dell Precision 5510 has also been future-proofed with the introduction of the Thunderbolt 3 connector. Transferring even the largest Photoshop files onto our USB-C work servers felt instant.



"The machine feels small enough to replace my existing laptop, and it's also capable enough to see my desktop heading for a new home. Though the Dell 5510 is a high-end business machine, the clean design would also make it a welcome addition to the trendiest startups."

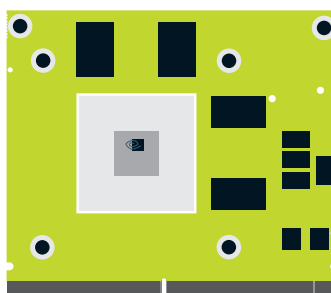
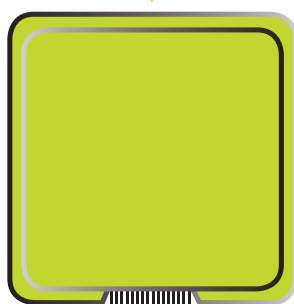
# A faster, future-friendly workflow

Unleash the power of a professional workstation, Windows 10 and Edge for quicker development



**WINDOWS 10** The handy Snap feature, Cortana's upgraded functionality and DirectX 12 support are just some of the key features of the definitive Microsoft Windows experience.

**MICROSOFT EDGE** The browser that is lean, fast, secure, standards-friendly and forward-thinking. Try out the very latest specifications and be ready for the future.

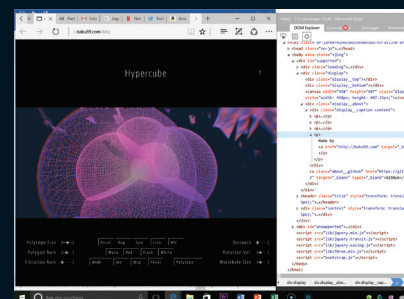


**INTEL XEON E3-1505M** For professional-level design and development work, you're better off with a professional processor. Mobile Intel Xeons make working with power-hungry libraries easy.

**NVIDIA QUADRO M1000M** Why settle for only one display? Professional GPUs are more than capable of getting you up and running with multiple screens - perfect for any creative.



**TIME SAVED** Increased power and a better optimised operating system in Windows 10 make for a more efficient and, ultimately, far more productive design/development workflow - exactly what you need when coding, previewing pages and testing. What else you need is a machine that matches your operating system. The right processor and graphics card ensure that all design and development processes work with pizzazz and no lag - the perfect way to avoid frustration and irritation.



## Expert opinion: Tom Wittlin

The pro designer gets to grips with Windows 10 and Edge

"Starting on the outside, the case feels solid and well built. Inside the carbon fibre is smooth, warmer to the touch than alloy and, dare I say, more appropriate. The 4K UHD screen is beautifully clear and bright, and best of all - it's touchable. It's such a useful enhancement for when you want to make quick adjustments or jump to things with gestures as you'd expect.

"Boot time is quick, as is load time for demanding apps including 3ds Max for 3D work. The redesigned battery charger ensures you can take the Dell Precision 5510 out at meetings free of fear. It has all the sockets you could ask for.

"Windows 10 is so quick, responsive and able to deal with a lot of different things at once. The addition of touch controls on the Dell Precision 5510 made Windows 10 much simpler to operate, it must be said. And what an improvement Edge is over poor old Internet Explorer! It's so fast. I opened up 15 tabs including Netflix, Chrome Experiments and Twitter and it ran quite happily.

"The inclusion of Cortana is really cool and undoubtedly makes you more productive. Once I'd gotten the hang of it, I naturally found myself doing one thing while asking it to do something else to speed up my workflow - for example, fact checking as I typed. In cases where it read back the answer to questions like 'what year was JFK born?', or 'how do you spell analogous?' it was just like having my really smart college mate beside me again. It's such a useful concept, and as we're seeing adoption and growth in voice controls industry-wide, it makes perfect sense. With this and touch screens now available on workstations, could the days be numbered for mouse and keyboard?"