











## Tools and Information

Tool Name	Description of the Tool	Product Details	Experience Level	How to get the Software or access the tool	Training Videos or Online Training Guides
<p><b>Touch Develop</b></p> 	<p>Create your apps on your phone, tablet or laptop. This Works on iOS, Android, Windows, Mac or Linux</p>	<p>This is a web based tool that works on all devices. Students will log once they apply for the challenge to save their progress.</p>	<p>Beginner</p>	<p><a href="http://www.touchdevelop.com/app">www.touchdevelop.com/app</a></p>	<p><a href="https://www.touchdevelop.com/hourofcode2">https://www.touchdevelop.com/hourofcode2</a></p>
<p><b>MinecraftEdu</b></p> 	<p>MinecraftEdu is a school-ready remix of the original smash hit game Minecraft. Minecraft Edu contains a set of powerful yet simple tools to fine-tune the Minecraft experience for learning and allow you to create imaginative games.</p>	<p>Schools must have an existing Minecraft EDU server and licenses.</p>	<p>Beginner</p>	<p>To use this option the server must have Computer Craft EDU World installed for students to demonstrate computational thinking. Students <b>must not use</b> a consumer version of Minecraft including Minecraft.net or Pocket Edition for this competition.</p> <p><a href="http://services.minecrafteu.com/wiki/Getting_started#How_to_Purchase">http://services.minecrafteu.com/wiki/Getting_started#How_to_Purchase</a></p> <p>using Minecraft: <a href="http://services.minecrafteu.com/wiki/Using_MinecraftEdu">http://services.minecrafteu.com/wiki/Using_MinecraftEdu</a></p>	<p><a href="http://services.minecrafteu.com/wiki/Using_MinecraftEdu#Common_In-Game_Tasks">http://services.minecrafteu.com/wiki/Using_MinecraftEdu#Common_In-Game_Tasks</a></p>

<p><b>Visual Studio</b></p> 	<p>A free, fully-featured, and extensible Integrated Development Environment for creating modern applications for Windows, Android, and iOS, as well as Web applications and cloud services.</p>	<p>This tool can be used to create apps and games in many different languages.</p>	<p>Intermediate Expert</p>	<p>You can download Visual Studio Community here <a href="https://www.visualstudio.com/post-download-vs?sku=community&amp;clid=0x409">https://www.visualstudio.com/post-download-vs?sku=community&amp;clid=0x409</a></p>	<p>Tutorials <a href="https://www.visualstudio.com/docs/vs/overview">https://www.visualstudio.com/docs/vs/overview</a>  <a href="https://channel9.msdn.com/VisualStudio">https://channel9.msdn.com/VisualStudio</a>  Introduction to Mobile app development: <a href="https://mva.microsoft.com/en-US/training-courses/introduction-to-mobile-app-development-8525">https://mva.microsoft.com/en-US/training-courses/introduction-to-mobile-app-development-8525</a>  Microsoft Virtual Academy Videos: <a href="https://mva.microsoft.com/search/SearchResults.aspx#!index=3&amp;prod=Microsoft%20Visual%20Studio&amp;level=100&amp;lang=1033">https://mva.microsoft.com/search/SearchResults.aspx#!index=3&amp;prod=Microsoft%20Visual%20Studio&amp;level=100&amp;lang=1033</a></p>
<p><b>Unity</b></p> 	<p>Unity is an industry standard games development engine. In Unity you can create realistic 2D or 3D games. Unity is designed for older students.</p>	<p>Unity is available for Windows and Mac OS.</p>	<p>Expert</p>	<p><a href="https://store.unity.com/?ga=1.262151308.1012290517.1468644656">https://store.unity.com/?ga=1.262151308.1012290517.1468644656</a></p>	<p>Tutorials <a href="http://unity3d.com/learn/tutorials">http://unity3d.com/learn/tutorials</a>  User manual <a href="http://docs.unity3d.com/Manual/index.html?ga=1.18388350.653410701.1455596809">http://docs.unity3d.com/Manual/index.html?ga=1.18388350.653410701.1455596809</a></p>

## Resources Useful for Design

Resource Name	Description of the Resource	Experience Level	How to access the resource
<b>Design &amp; UI</b> 	This handy guide by Microsoft takes you through the app design process, covering from layout all the way to usability.	Any	The guide is hosted online at:  <a href="https://developer.microsoft.com/en-us/windows/design">https://developer.microsoft.com/en-us/windows/design</a>
<b>Game Development Tools</b> 	If you're considering developing an app for multiple platforms, this website provides an overview and advice. It covers web, mobile, desktop computers or home consoles.	Any	The guide is hosted online at:  <a href="https://msdn.microsoft.com/en-us/games-development-msdn.aspx?f=255&amp;MSPPError=-2147217396">https://msdn.microsoft.com/en-us/games-development-msdn.aspx?f=255&amp;MSPPError=-2147217396</a>
<b>Get started developing Windows 10 games</b> 	If you're thinking of building your app for Windows 10 systems, this is for you. This site guides you through the process of creating games for the Windows 10 Operating System.	Intermediate Expert	The guide is hosted online at:  <a href="https://developer.microsoft.com/en-us/windows/games/getstarted">https://developer.microsoft.com/en-us/windows/games/getstarted</a>
<b>Software Development Fundamentals</b> 	A video guide which provides general advice on where to start with software development.	Intermediate Advanced	<a href="https://mva.microsoft.com/en-US/training-courses/software-development-fundamentals-8248?l=xiawPHKy_5104984382">https://mva.microsoft.com/en-US/training-courses/software-development-fundamentals-8248?l=xiawPHKy_5104984382</a>

<p><b>Thomas Suarez: A 12-year-old app developer</b></p> 	<p>An inspiring TED Talk video featuring the young Suarez talking about his start in app development and his future goals.</p>	<p>Any</p>	<p><a href="https://youtu.be/Fkd9TWUtFm0">https://youtu.be/Fkd9TWUtFm0</a></p>
<p><b>ACMI Game Masters Education Resource</b></p> 	<p>A document created for the Game Masters exhibition held at ACMI in 2012. It covers a wide range of design theory and video game history.</p>	<p>Any</p>	<p><a href="https://www.acmi.net.au/media/428167/gamemasters-ed-kit.pdf">https://www.acmi.net.au/media/428167/gamemasters-ed-kit.pdf</a></p>