Just like any other products, beautiful visual appearance is one of the most significant advantage among software to attract customers. Animation can be adding to improve software’s appearance. Except aesthetics facts, user interface can influence customers’ experience the most.

Interface design and animation are both elements from Architecture and Interaction Design. They are non-computing capability that be used in the third step of software development life circle - planning, analysis, design, coding, testing, deployment, maintenance. In this step, designers should create a prototype of the software that include appearance demonstration, color use style and human-computer interaction. Programmers need to follow this prototype to code the software.

Except the function feature of the software, good user interface can make the software become popular. Competitive user interface should be attractive, simple to use, response quickly, easy to understand and consistent on interface screen.

The interface designers should have basic knowledge of interface elements. (input, output, informational components, containers…) They also need to have skills on visual design, icon design, layout design, analytics skill, simplifying. Analyzing the user experience is one of the most significant capability in interface design, because users’ experience can affect customers’ attitude toward the software directly.

Understanding interface design is helpful for software developers, especially for self-development or people who work in small teams. Some small studios, which contain four to six members, may not have a designer who is particularly work for user interface. If developers can take the job to do interface design by themselves, their product will have better quality. For people who work in large development group of big enterprises, they can easily comprehend the contents of the prototype and get less misunderstanding.

Animation is essential for development of video games, but also can be used to decorate applications, websites or even operation systems. Unlike the one in cartoons or movies which use animation software to produce, making animation in software development require coding skill.

Developer who are capable to make animations own the opportunity to become an animation programmer. (also called animation engineer) Animation programmers need the skill to create animation by using programming language. In producing website, they use Css and Javascript. In application or game development, they use C++, C, C# or Java.

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<https://www.uxpin.com/studio/blog/ui-design-principles/>

<https://www.geeksforgeeks.org/software-engineering-user-interface-design/>

<https://careerfoundry.com/en/blog/ux-design/required-skills-for-ux-ui-design/>

<https://www.usability.gov/what-and-why/user-interface-design.html>

https://www.softwareengineerinsider.com/careers/animation-programmer-engineer.html#:~:text=Animation%20programmers%20and%20engineers%20write%20the%20code%20that,employed%20in%20either%20the%20film%20or%20gaming%20industry.