

# Revolutionary Changes in Traditional Drawing Tools: A Literature Review

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**Abstract:** First thing that springs to mind whenever we think of drawing and sketching is a wooden stick called a graphite pencil. It was in 1795 that the Graphite Pencil made its debut. Graphite pencils have been around since the 18<sup>th</sup> century and are currently going strong in the 21<sup>st</sup> century. We all know that even in the 21<sup>st</sup> century, we cannot ignore the pencil's presence and significance. We were taught how to write and draw by the pencil from the very first day of school.

Artists have long sought for new art forms, materials, techniques, and instruments. Because everything is moving so quickly in the digital age, artists are also looking for rapid and time-efficient results in their artwork. Thanks to improved technology, artists now have a better digital drawing tool. Using a digital drawing tool is quite comparable to using a traditional drawing pencil in the traditional sense.

In this post, we'll take a look at several cutting-edge digital drawing tools and explain how they might benefit artists.

**Keywords:** I-Pad and cintiq, Pen tablet, Stylus in mobile, Traditional drawing tool.

## I. INTRODUCTION

The use of pictographs served as a dividing line between history and prehistory. In the same way, a pictograph becomes a document of expression for every child. Sketching and drawing are the first stages to learning for any child. Pencil marks a significant turning point in a child's development and it is likely that a pencil is the first tool that a child uses on their own. It's a hybrid of a toy and a tool, in fact. A pencil can be given to a youngster as soon as he or she understands that it is not to be put in the eye and that the eye is a delicate organ.

It is the pencil that holds our hand when we enter school for the first time and teaches us how to express ourselves visually. Only a pencil gives children the opportunity to erase and adjust their vision, which is why they love to play with pencils. Pencil is inextricably linked to the work of artists who work in the fields of painting, portraiture, comics and concept art, as

well as animators, fashion designers and industrial designers. Everything is digital in this digital age. All information will be transferred to digital format in order to save paper, save artwork, and display it. As a result of this development, more and more artists are creating their art in digital format. They use a digital pen tablet or other digital tools to create digital art. In many ways, these digital instruments mimic the old-fashioned pencil. Drawing on the computer or mobile screen is possible with a digital pen or pencil. With the classic pencil, artists can feel the same sensitivity.

## II. EXPERIMENTAL

Digital drawing tools abound. Functionality and features of every tool are unique. We'll go over a few of the features of digital drawing tools in this article-

- *Pen Tablet* - For painters, a pen tablet is a valuable tool. In the Pen tablet, we have a pen and a pad that may be used simultaneously. A pen tablet must be connected to a laptop or desktop for an artist to work. As soon as it's connected to a computer, an artist can start drawing on the pad and the results will appear on the computer screen.



Fig. 1: Pen Tablet

- *Stylus based Tablets* - Newer mobile phones and tablets are equipped with a stylus pen (Digital Pen). It is possible to write or draw directly on the screen of a mobile phone or tablet with the help of a stylus as similar to working with a pencil on paper as you can imagine.



Fig. 2: Stylus based Tablet

- *Cintiq* - For professional artists, Wacom Cintiq is a digital drawing tool made by the renowned pen tablet maker Wacom. When using the Cintiq, the artist creates his artwork right on the computer screen by drawing on it. Cintiq gives you the feeling of working with a pencil on paper. It's quite realistic. In Cintiq, artists may work on professional designing software and make professional art.



Fig. 3: Wacom Cintiq

Each item has a unique experience and consequence for me as an artist. In terms of usefulness and capabilities, every drawing tool differs from one another.

- *Stylus (Pen) on Mobile* - Easy to use and quite handy.

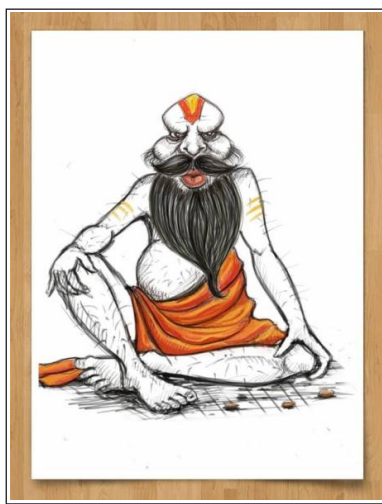


Fig. 4: Author Experiment on Stylus

- *Pen Tablet* - A drawing tablet, also known as a graphics tablet, translates the strokes from a pen or stylus to your computer screen with much greater precision. It's far more natural and comfortable to use than a mouse or touchpad whether you want to paint, illustrate, animate in 3D, create a comic, or retouch photos.

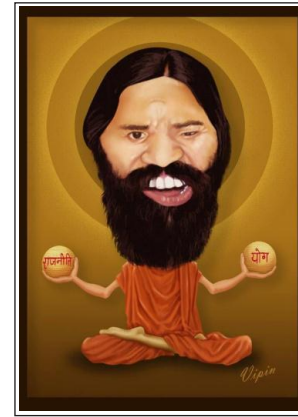


Fig. 5: Author Experiment on Pen Tablet

- *Cintiq* - When it comes to digital artists, Cintiq is a pretty powerful instrument. There were times when it felt like writing by hand in pencil on paper. Simple to use and the results are rapid and accurate.



Fig. 6: Author Experiment on Cintiq

### III. RESULTS AND DISCUSSION

Simple and inconspicuous, the pencil is a useful tool. It's so easy to operate that even a toddler can do it. In other words, the pencil is both safe for the youngster and safe for the child's antics. Wood and graphite, both of which contain carbon, are safe to lick or chew on. It does not break if it falls out of a child's grasp. It's not harmful to toss a pencil along with a tantrum. It is unlikely that a youngster will be injured if they tread on a pencil. However, even if it's broken, it's still valuable; in fact, it's even twice as useful. Getting a new one costs cents. Pen-tablets, stylus-tablets, and the Cintiq, the professional artist's favourite, cannot be saved for the future.

Children can get injured by a tab-like device's glass or similar screen if they tread on it. An infant who licks or bites a soft plastic portion of a device can be seriously injured. In addition to birth deformities, DEHP, a chemical added to many plastics to make them more flexible, has been associated to an increased risk of health problems, including reproductive abnormalities, such as male infertility.

Parents of babies and young children love the pencil, but digital tools are becoming more and more popular with professional artists. It's not just that these gadgets make it easier to save and share artwork, but they also make it easier to produce artwork with these tools. A 16.7 million colour display and pen pressure sensitivity of 2000-8000 levels make artworks crisper and richer. 3D design has made these devices and instruments significantly more compatible than traditional paper and pencil. As an example, take a look at a car's door or side panel. It is possible to import a digital drawing into a 3D software and assess its accuracy and expectations in a matter of seconds. It's not possible to do so with paper and pencil. Other applications can compute the number of tiles of a given colour needed to recreate an artwork on a structure based on a digital drawing. Digital arts tools are incredibly useful in this way. Digital art tools are without a doubt one of the most important technologies for artists and designers alike.

#### IV. CONCLUSION

Even if a child's first drawing materials are pencils, digital tools are necessary to make accurate and tech-compatible artwork that is useful or purposeful. The digital drawing pen can be used for more than just drawing and sketching. Save and share these digital notes with ease.

As a result, we may conclude that the digital art revolution opened the door to art for both artists and the general public. A non-professional artist can also improve their work with the use of digital drawing tools. Digital tools should be made more accessible and encouraged in the arts and illustration fields.

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