



University of  
St Andrews | FOUNDED  
1413 |



# Create a Pen of the Future



sicsa\* The Scottish Informatics & Computer Science Alliance

A blurred background photograph shows a young child with dark hair, wearing an orange headband, sitting at a light-colored wooden desk. They are holding a black pen and writing in a lined notebook. To the left, a person in a pink shirt is seated in a grey chair. The overall scene suggests a classroom or home study environment.

# What makes ‘good’ handwriting

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- Writing on the line
- Writing Speed
- Writers Grip
- Writers Posture
- Overall Aesthetics
- Joined Up Writing
- Equal Spacing: Characters
- Equal Spacing: Words
- Character Size
- Letter Formation

Sunday 20th January

On Friday it was Jacob's Birthday and Alison (Edens Garden) came over with lots of animals, there was Dragons, chameleon, chinchilla, Python, Tortois and Sugar gliders. It was pretty awesome!

On Saturday Me, Aimee, Sarah, Jacob, Nathan and Christopher went out in the snow to make a snowman. Chris and Jake knocked others down. Then me and Aimee had a snowball fight! After that Vanessa came over to look after us. It was great but she forgot her art stuff and her watch!

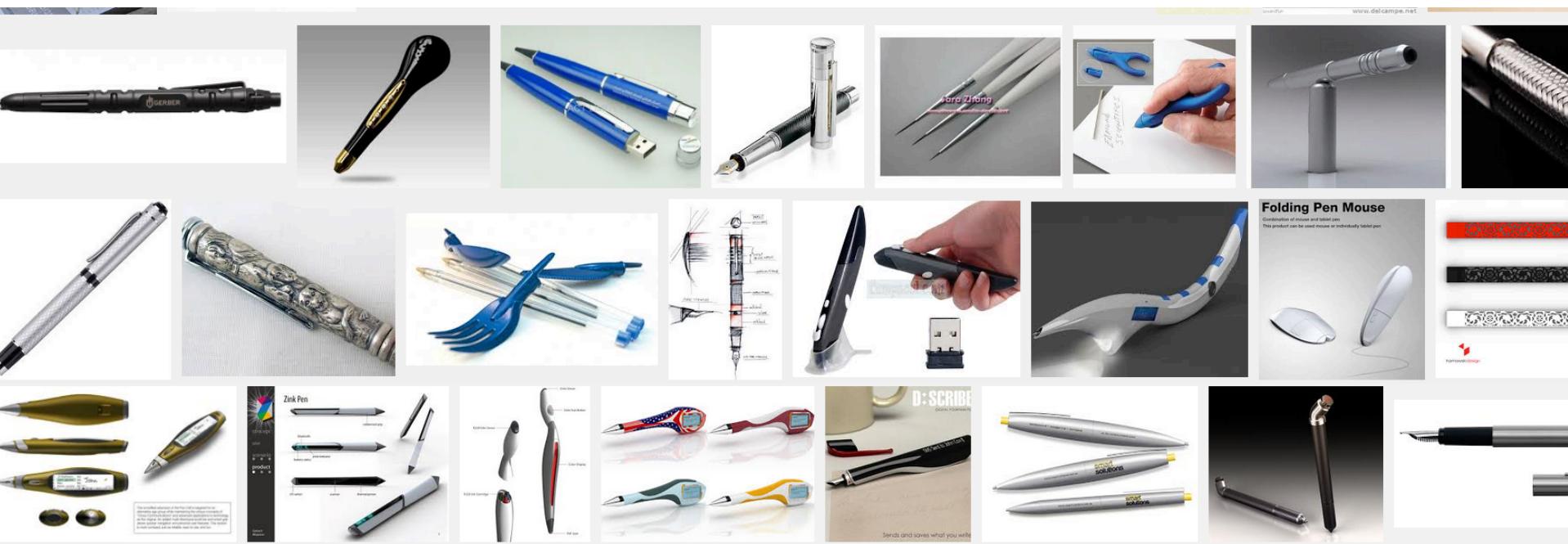
Suddenly she came upon a little  
table, all made of solid glass.  
There was nothing on it but a  
tiny key. Alice's first idea was  
that this might belong to one of  
the doors of the hall, but either the  
locks were too large, or the key was  
too small.

A blurred background photograph shows a young child with dark hair, wearing an orange headband, sitting at a light-colored wooden desk. They are holding a black pen and writing in a lined notebook. In the upper left, a pink chair back is visible. The overall scene is soft-focused.

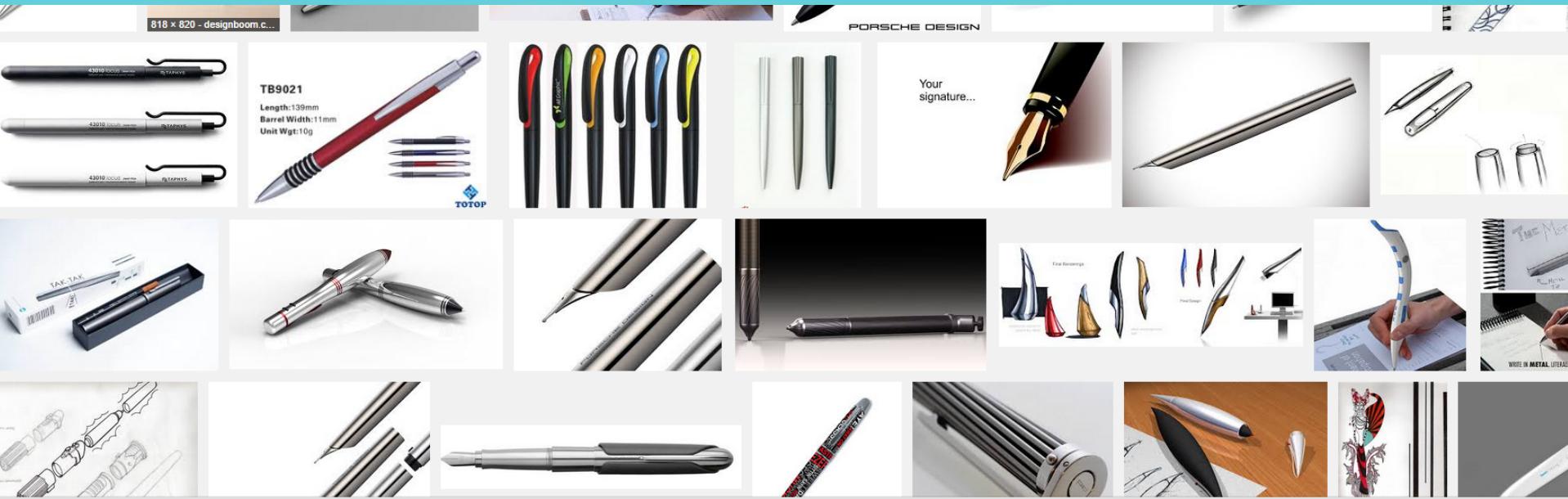
# What makes ‘good’ handwriting

Suddenly she came upon a little cabinet made  
of solid glass. There was ~~nothing~~ nothing on it  
but a tiny key. Alice's first idea was  
that ~~this~~ might belong to one of the  
doors of the hall, but either the locks were  
too large, ~~or~~ or the key was too small.

Suddenly she came upon a little table, all made of solid glass.  
There was nothing on it but a tiny key. Alice's first idea was  
that this might belong to one of the doors of the hall, but  
either the locks were too large, or the key was too small.



# Pen Design



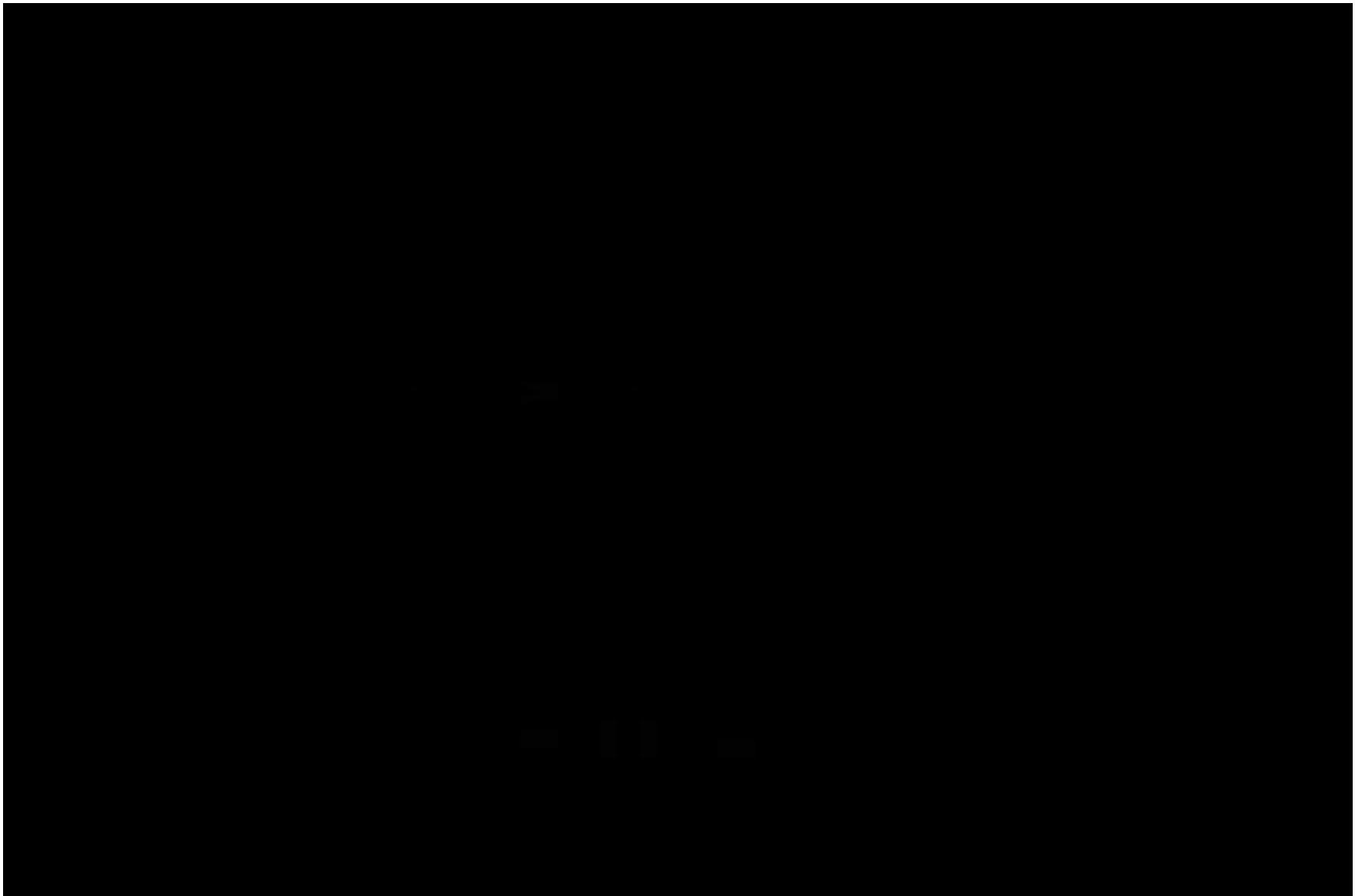
# What can pens ‘know’

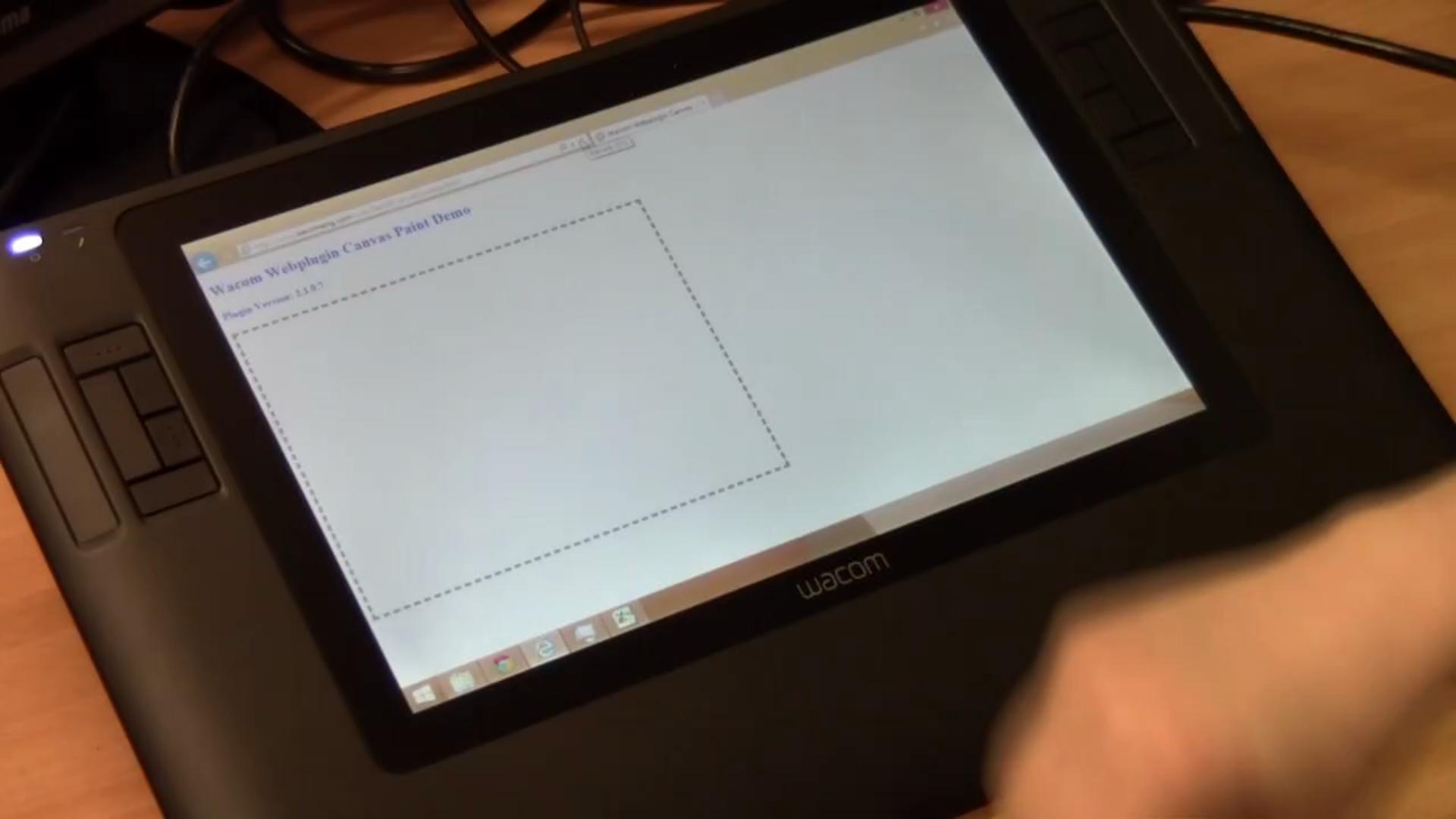
## DEMO

# Add a new dimension of Touch



<https://www.youtube.com/watch?v=u9jdhUvOmMw>





## Wacom Plugin Table Values Demo

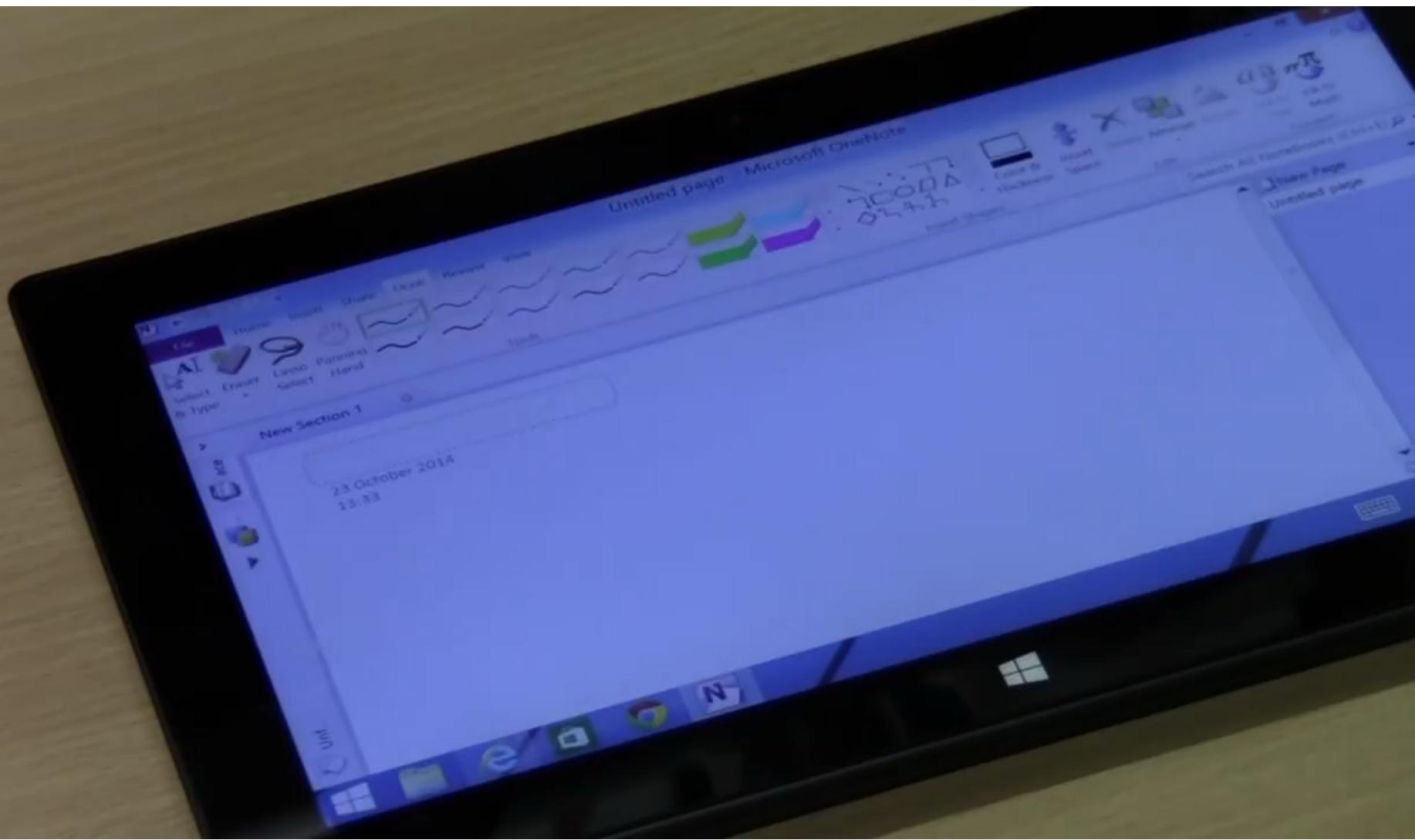
Drag the blue circle with your pen to see table values change.

Wacom Device Manager

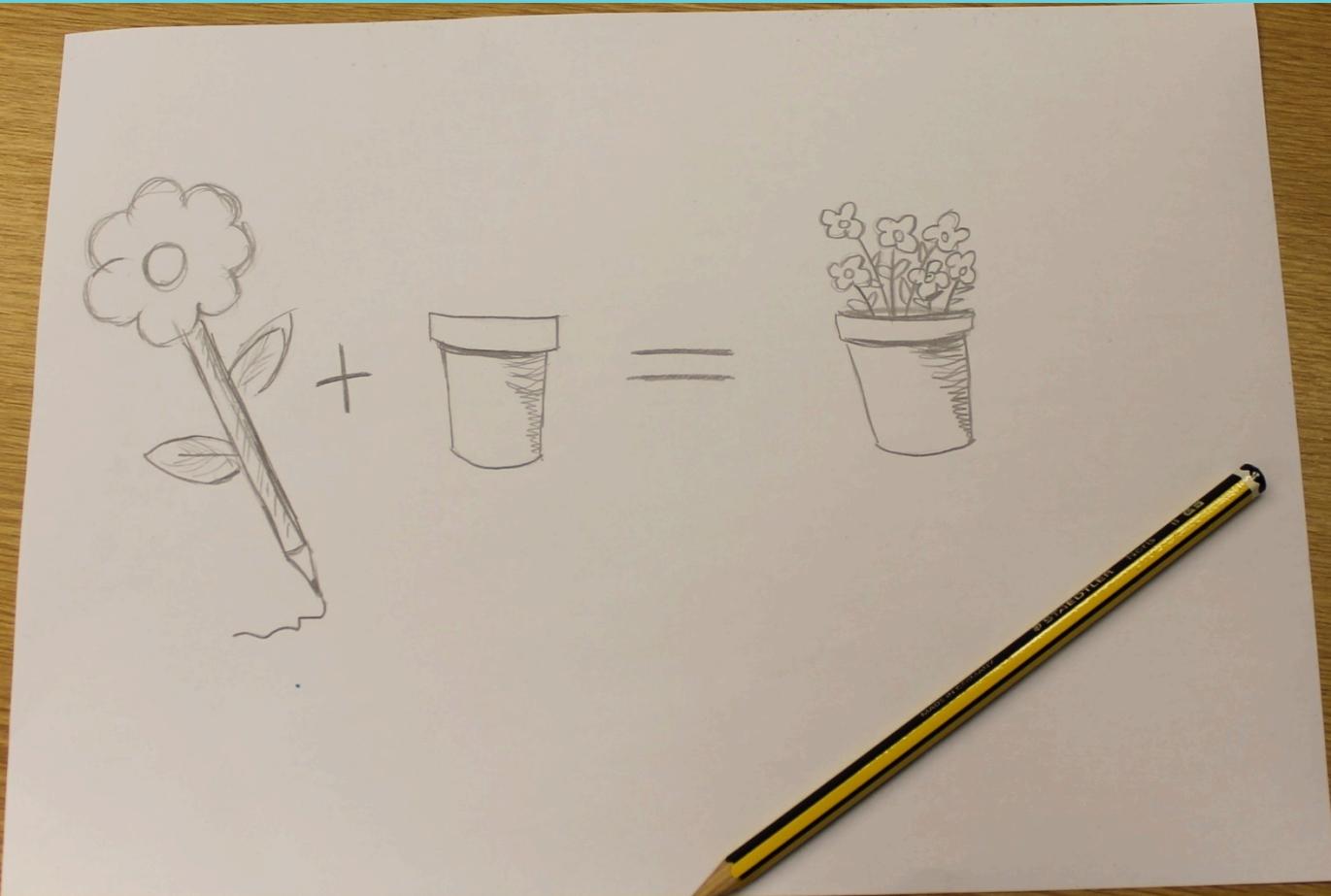
Parameter	Parameter Value
Version	3107
MouseX	433
MouseY	246
IsWacom	true [CONNECTED]
IsEraser	false
Pressure	0
PosX	1368 pixels
PosY	409 pixels
SysX	1368.361 pixels
SysY	409.178 pixels
TabX	17706 tablet X coords
TabY	20770 tablet Y coords
RotationDeg	0 deg
RotationRad	0 rad
TiltX	1
TiltY	0
LangPressure	0
PointerType	1 [pen]



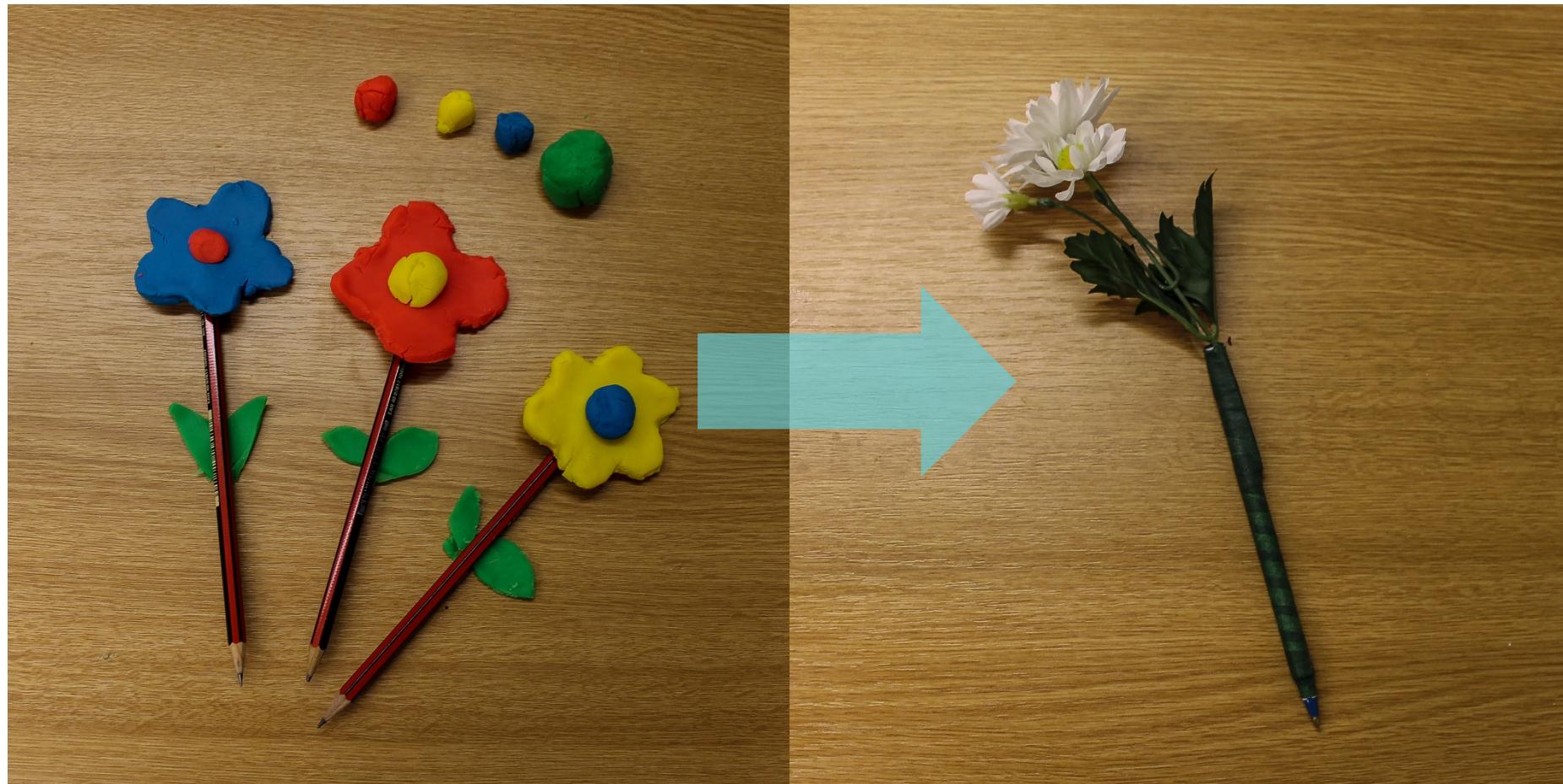
wacom



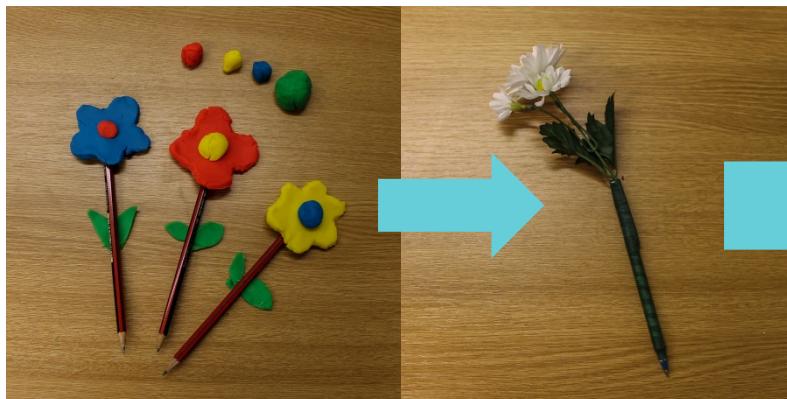
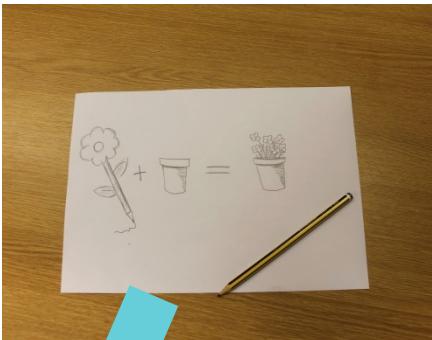
# Design Process: Prototyping

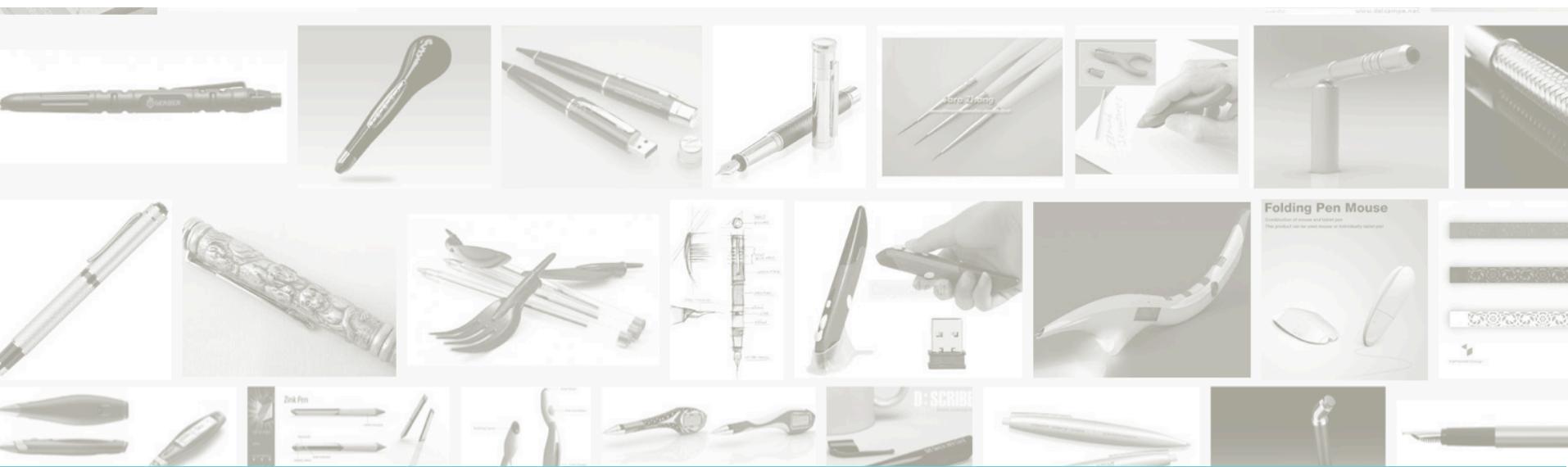


# Design Process: Prototyping



# Design Process: Prototyping





# Design your *'Pen of the Future'*

