# The Three Types of Calligraphy Scriptures (Eastern, Arabic, Western)

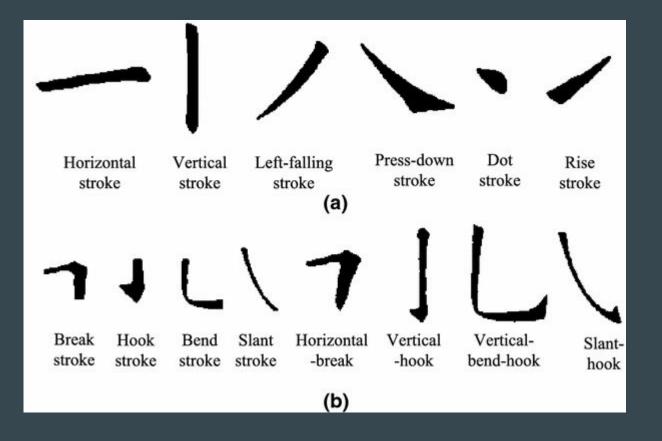
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Brianna Hang

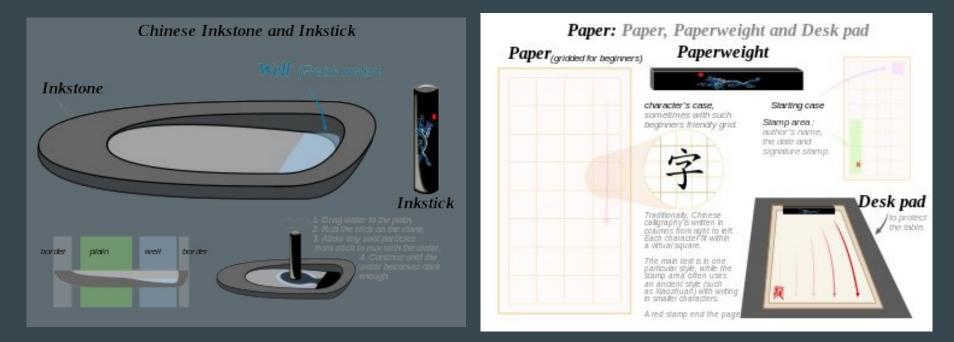
# Scripts



### Design



# **Materials**



# The Effect of Collagen on Dispersion and Particle Size

#### Original article

Characterization of Chinese ink in size and surface

Joseph R. Swider<sup>a</sup> or wincent A. Hackley<sup>b</sup>, John Winter<sup>a</sup>

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#### Abstract

Chinese ink, a mixture of soot and animal glue, has been used in East Asia for centuries as the sole black paint of choice. The combination of animal glue and soot particles create a distinctive dispersion system giving Chinese ink its unique properties among paints and inks. Photon correlation spectroscopy (PCS) size measurements and scanning electron microscopy (SEM) imaging revealed subtle differences in particle size and aggregation among inks of different soot origin. Surface chemistry of the particles was examined using laser Doppler <u>electrophoresis</u> (LDE) for determination of the <u>isoelectric point</u> (IEP). The IEPs of different inks were not distinct, but reflected the presence of the collagenbased glue on the particles' surface. The IEP and size dropped significantly when inks were treated with collagenase and when soot and carbon blacks alone were measured, pointing to the important role of animal glue in this dispersion system.

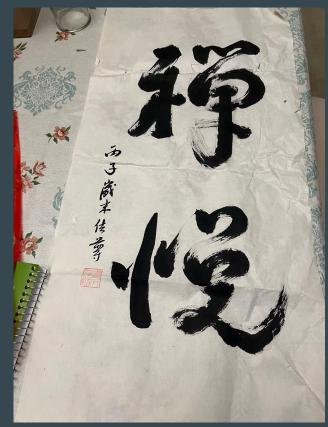


# Anatomy of the Brush



#### **Brush:** head types, compositions, and brush size **Brush**(for begginers) Head and Hairs. Head types are according to hairs size/length, loops types (goat, rabbit, weasel, plum,...), and method of composition. Size and length allow horn tail large or small writings, types and composition make flexibility or rigidity and rebound. Brush hold bamboo 2 3 body, handle Head compositions, Type 1 : Sănzhuó, one hairs type. Type 2 : Zhu/Bei, rigid hairs inside, soft hairs (confirmed users) horn outside. Type 3 : Jiānháo, mix in heart and ring, very soft in skin, a : Anatomy with heart, ring, skin, hairs Brush. ...ink head The height of the brush hold influence control and velocity. The calligrapher choice 🗕 stroke, character his brush mainly according to which styles he want to write down, and with which size.

# Example of Scripture from Buddhist Temple

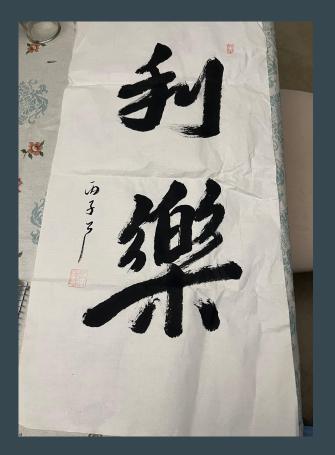


利 means profit or benefit

樂 means happy

禪 means Zen

悅 means joy



### Arabic Scripture

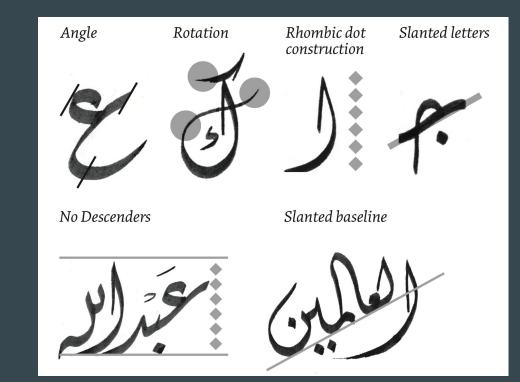


المالحة بدين علم ولا لأبآبهم كثرة وَاللَّذِ الْوَالْتُهُ وَبَالْمُتَنَ تَزَلُّ وَمَا أَوْسَلْتُكَ إِلَّا مُبْشِرًا وَلَمُانَ أَنْ مِهِمْ إِن يَقُولُونَ إِلَّا كَذِبًا إِنَّ فَلَمَ أَنَّ ويعلى الما ومنه القراة على النَّاس على مُكْبُ وَتَزَلْنَهُ لَنَزِيلُ اللَّهُ قُلْ مَاسْوًا بِدِاتُولَا تَوْمِنُواً إِنَّ الَّذِينَ أُوفُوا الْعِلْمَ مِن مَّلِدِ إِذَا تُسْلَ عَلَد مَاتُ هِمْ إِن لَّمْ تُوْمِنُوا مِعَدًا أ عَلَيْهُمْ يَخِرُونَ لِلأَدْقَانِ سُجَدًا ﴿ وَبِقُولُونَ سُحَنَ رَبَّ إِنَّ إِنَّ حَتَلْنَا مَا عَلَى ٱلْأَرْضِ زِينَةُ لَمَّا لِنَسْلُوَهُ وَعَدْ رَبَّا لَمُفْعُولًا ٢ وَيَحْرُونَ لِلْأَدْفَانِ يَكُونَ وَرُبُدُو ٢) وَ إِنَّا لَجَعِلُونَ مَا عَلَيْهَا صَعِيدًا نَّ أَصْحَنَبَ ٱلْكَهْفِ وَالرَّقِيمِ كَانُوا مِنْ ءَابَنِينَا عَدَ ال عُدْ عَا ٢ المالَ ادْعُوا الله أو أدْعُوا الرَّحْدَيُّ إِلَا مَا مَدْعُوا الرَّحْدَيُّ إذ أوى الفشية إلى الكهف فقالوا رَبُّنا وإنام المُرابِ ح الأسماة المشتكى ولا عَمَهر بمسكريك ولا عُايت بها وال يْنِيَ وَلِكَ سَبِيلًا ٢ وَقُلْ ٱلْحَمَدُ بِنَّهِ ٱلَّذِي لَمُ سَخِذُ وَلَاً ، أَنَ يَكُ وَعَبَىٰ لَنَا مِنْ أَمْرِنَا رَشَـدًا ٢ فَضَرَيْنَا عَلَى مَاذَانِهِمْ وَ أَنْدُسْمِيكُ فِي ٱلْمُلْكِ وَلَدْ يَكُن لَدُوانَ مِّنَ ٱلذَّلِّي وَكَذِرْ نَكْمُ أَن الكَهْفِ سِنِينَ عَدَدًا ٢ لَمُرْ مَنْتَقُوْ لَعَدُ أَنْ الْمُ العبل تْحَمَىٰ لِمَا لَبِشُوا أَمَدُا الْ تَحَنُّ نَفْشُ عَلَيْكَ بَالْهُم بِالْحَوْ الم فِتْيَةُ ، امَنُوا بِرَيْهِ وَذِدْنَهُ مُدًى ٢ وَرَبَطْنَ المقد التخر التحك عَلَى قُلُوبِهِ إِذْ قَسَامُوا فَقَالُوا رَبُّنَا رَبُّ ٱلسَّمَارَتِ وَٱلْأَرْضِ المُتَدُد بَدَه ٱلَّذِي أَذِالَ عَارَ عَده ٱلْكَنْبَ وَلَتَر يَعْمَل لَهُ وَوَمَّ ٢ لَن فَنْعُوا مِن دُونِهِ إِلَيْهَا لَقَدْ قُلْنَا إِذَا شَطَطًا ٢ سَمَّا لَشُنِدَرَ بَأْسًا شَدِيدًا مِن لَدُنْتُهُ وَنُبَشِرَ ٱلْمُؤْمِنِينَ ٱلْبِ فَوْمُنَا أَغْدَدُوا مِن دُونِيهِ وَالِهَا اللَّهُ الْوَلَا بِأَنُوتَ عَلَيْهِم يَعْ عَلَى ٢٠٠ العَالجَتِ أَنَّ لَعْهُ أَحَا حَسَدًا المَعَدِينَ المُلْطَنَيْنِ بَيْنَ فَمَنْ أَطْلَمُ مِتَّنِ أَفْتَرَى عَلَى ٱللهِ كَذِبًا ٢ ف أَبْدًا ٢ وَيُنددَ ٱلَّذِينَ قَالُوا أَغْتَدَ ٱللَّهُ وَلَنَّا



#### Design - Diwani

الساوات و الأرض Naskh وات والأمرض Thuluth لسماوات والارم Nastaliq (لساولات و للارمن السماوات و Kufi



#### **Materials**

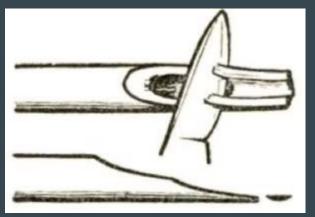




# Anatomy of Pen

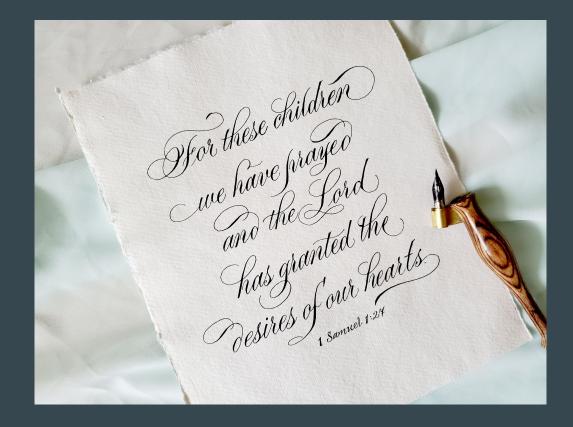






# Western Scripture





### Design





#### **Materials**



# Anatomy of Pen



