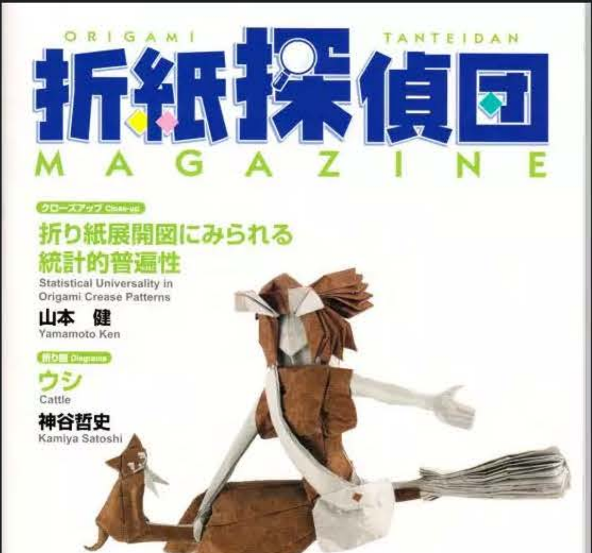
Origami Promotion Series No.141 Total 199th issue of Origami Detective Team 141

Original origami student Takayama CP origami opening number2019-07-21

Hello everyone, welcome to CP Opening!
A long time ago, I planned to make a series of the famous origami magazine "Origami Detective Team". The explanation of this series is also intended to use the same method as the previous explanation of the origami book, introducing the book itself, and then the folding charts in it. , Background and knowledge of origami, CP diagram and other parts, the original idea was to divide this set of magazines into 50 issues before, 100 issues, 200 issues to say in batches, but the plan has never changed quickly, so Issue 141 to reply to the comments of netizens! In these issues of this year, I will try to complete the ten issues of 141--150! !!

Not much to say, here is a link to share this book first, I hope everyone downloads and watches.
Link: https://share.weiyun.com/55T6RvS

The following is the cover of this book. The most important introduction in this issue is the aggregation and shaping of this witch CP.



展開図折りに挑戦! Crease Pattern Challenge!

魔女娘さん

Magical Girl

大谷 貢

Ohtani Mitsugu

つまみおり Information

第9回折紙探偵団名古屋コンベンション参加受付開始

The Registration Open for the 9th Origami Tanteidan Nagoya Convention

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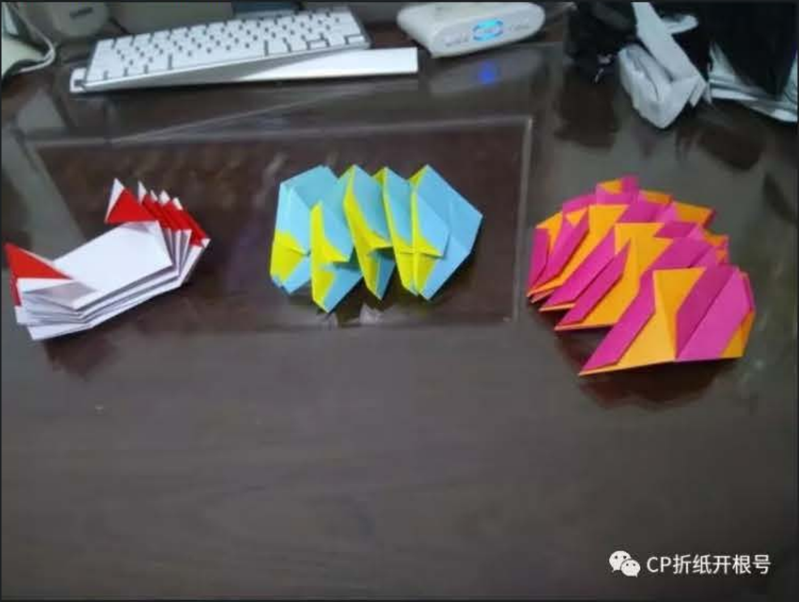
Everyone in this book can see about three parts. First, there are three combinations of origami. Some people directly define it as flower ball origami. I do n't think it matters, but it is only a matter of scope. The finished picture of this part, you can come to play if you are interested in paper.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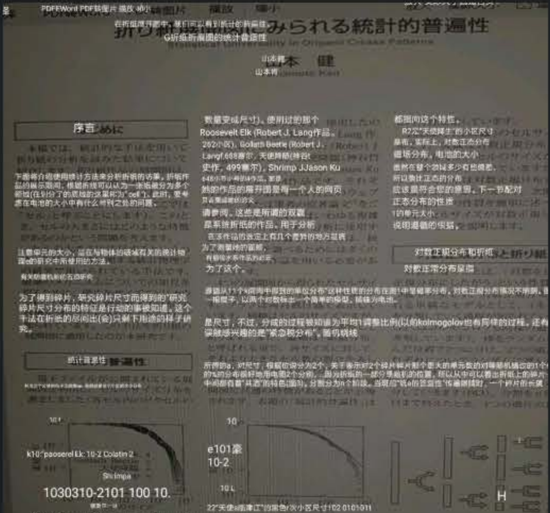
The combination of three cubes is a relatively simple unit origami combination work. The most critical step of this type of work is the design of the unit. After the multi-step folding of each piece of paper, a pluggable, lockable and beautiful appearance is maintained. For successful works, you can refer to the previous issue of the two-dimensional CP combination work. I also hope that everyone can design a successful combination work by themselves.

The next book provides a butterfly folding method, because personally I do n't like it, so there is no discount, but if you have time, friends can try one, because the individual steps are still remarkable.

The last part of the folding chart is a sequence chart of the cows of the Kamiya philosophical history. It should be said that quite a lot of designs in Kamiya's works are boutiques. Although this cow is not particularly difficult to fold, it is not a name in many Kamiya works. , But here is still recommended that everyone turn around and pay tribute.

Let's talk about the second part of the book, the introduction of origami knowledge. Friends who are familiar with the Origami Detective Team all know that there are some origami teachers in each small magazine, and some theoretical guidance on the history of origami, but because they are all in Japanese, the generalization may not be so good. Of course, this book cannot give up this important part. Now I will use software to simply translate a few pages that I think are relatively important, and you can understand for yourself.



PDFWord PDF转图片 播放 缩小

…みられる統計的普遍性

G折纸折痕图的统计普遍性

山本 健

序言

数量变成尺寸)。使用过的那个

Roosevelt Elk (Robert J. Lang作品。

Shrimp JJason Ku

为了这个。

都拥有这个特性。

对数正规分布和折纸

对数正常分布是指

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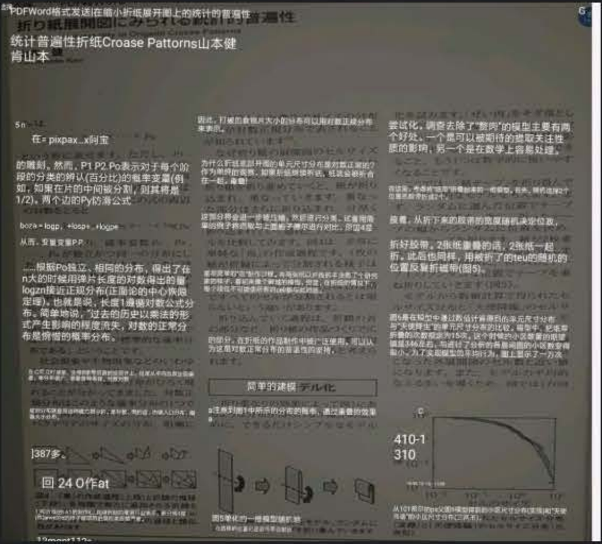
Shrimpa

21个小单元尺寸分布的4个平衡衡演算，从中可以看出韧性和结构的作用。

一名23岁的吉姆尔，各碎片在随机位置被分成两分，这些碎片的长度是相对的正数分布。



PDFWord格式发送|在缩小折纸展开图上的统计的普遍性

折り紙展開図にみられる統計的普遍性

统计普遍性折纸Croase Patterns山本健

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5 n

在= pixpax...x阿宝

的雕刻。然而，P1 P2 Po表示对于每个阶段的分类的辨认(百分比)的概率变量(例如，如果在片的中间被分割，则其将是1/2)。两个边的Py防滑公式

boza = logp，+losp+...+logpe

从而，变量变量P.P.

...根据Po独立、相同的分布，得出了在n大的时候用弹片长度的对数得出的量logzn接近正规分布(正面论的中心恢限定理)。也就是说，长度1遵循对数公式分布。简单地说，"过去的历史以乘法的形式产生影响的程度流失，对数的正常分布是惯惯的概率分布。

因此，打破的食物片大小的分布可以用对数正规分布来表示。

为什么折纸展图开图的单元尺寸分布是对数正常的？作为刚性的表现，如果折纸继续折纸，纸就会被折合在一起，最后！

这部分将会进一步被压缩，然后进行分类。试着用简单的例子将简取与上面的子牌尔进行对比。原图4是

的部分，在折纸的作品制作中被广泛使用，可以认为这是对数正常分布的普遍性的原持。

简单的建模 デルイヒ

a注意到图1中所示的分布的概率，通过重叠的效果

尝试化。调查去除了"数同"的模型主要有两个好处。一个是可以被期待的提取关注性质的影响，另一个是在数学上容易处理。

接着，从折下来的胶带的宽度随机决定位置，

折好胶带，2张纸重叠的话，2张纸一起折。此后也同样，用被折了的teu的随机的位置反复折磁带(图5)。

]387多。

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图5简化的一维模型随机地

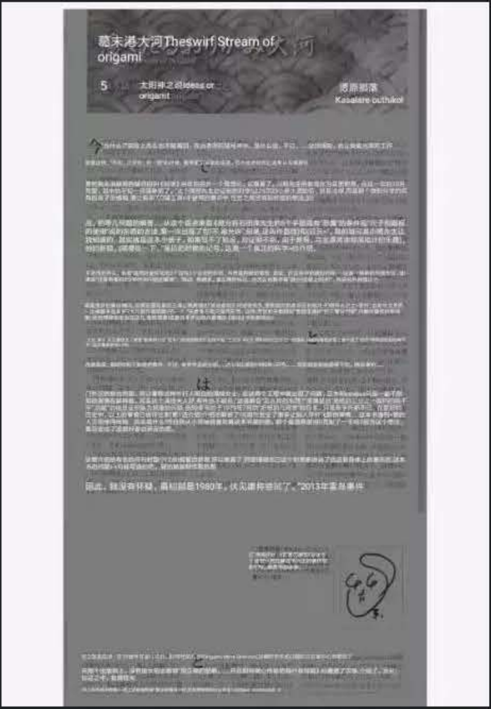
This part of the theory is too deep.

艰辛的大河The swirt Stream of Origam

[illegible] 顿手

[illegible]Kouthiko /

[illegible]



[illegible]大河Theswirf Stream of origami

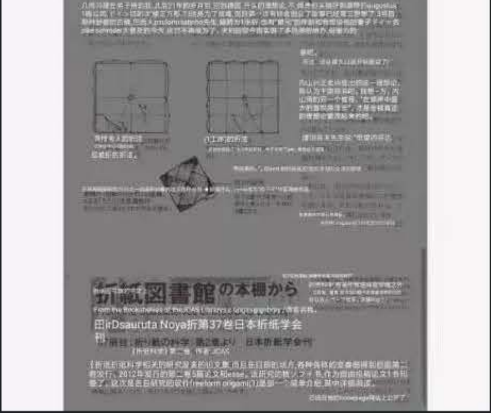
5 [illegible] Ideas or origami

Kasalare outhikol

[illegible]

因此，[illegible]1980年，[illegible]2013年[illegible]

[illegible]

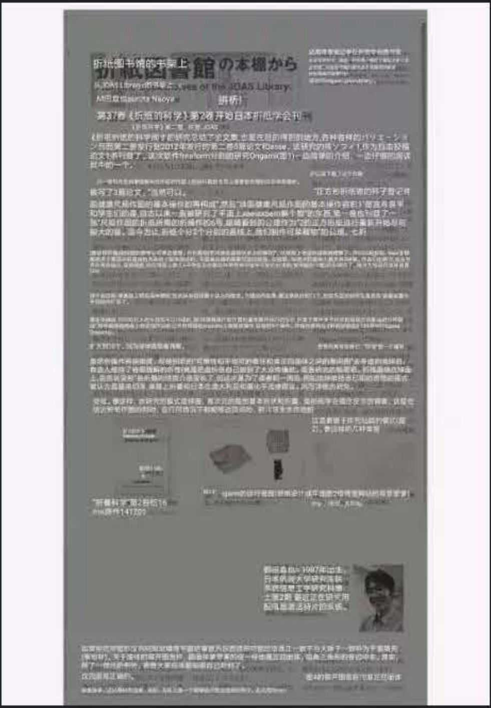


折紙図書館の本棚から

From the Bookshelves of the JOAS Library

田rDsauruta Noya折第37巻日本折纸学会刊

「折り紙の科学」第2巻より　日本折紙学会刊



折纸图书馆的书架上

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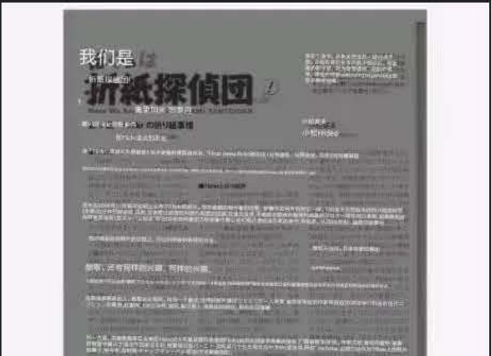
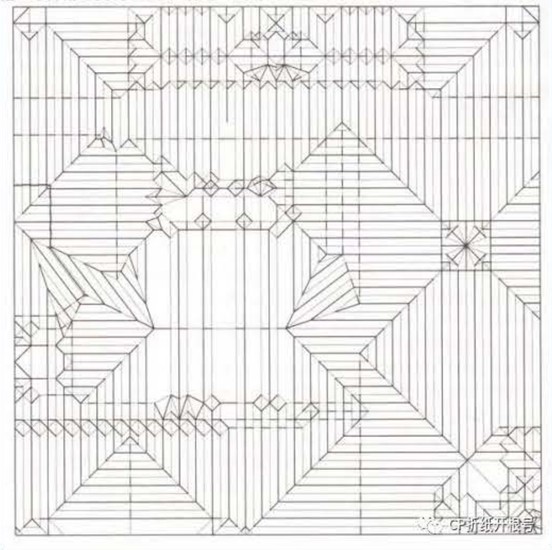
折紙探慎团!



我们是

Let 's take a look at the translation above. To be honest, some mathematical knowledge is not so well understood, but fortunately, we are not mathematicians and we are not too entangled in a certain sentence. We can just play with origami!

Let's look at the last part, the CP challenge!



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First of all, this is a 64 * 64 square work

The basic requirement for paper is two-color. Generally speaking, it takes 20-30 minutes to divide the 64 grids. In addition, an hour will soon pass if the line is connected. If everyone wants to origami, it will take a long time.

Let 's go online with me!

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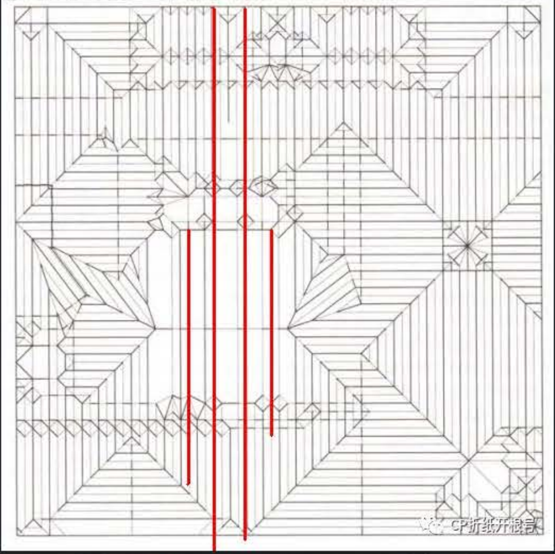
The black and white two-color paper that I use here, we first follow the red line as the center of the peaks and valleys on the two sides, the unit is a grid.



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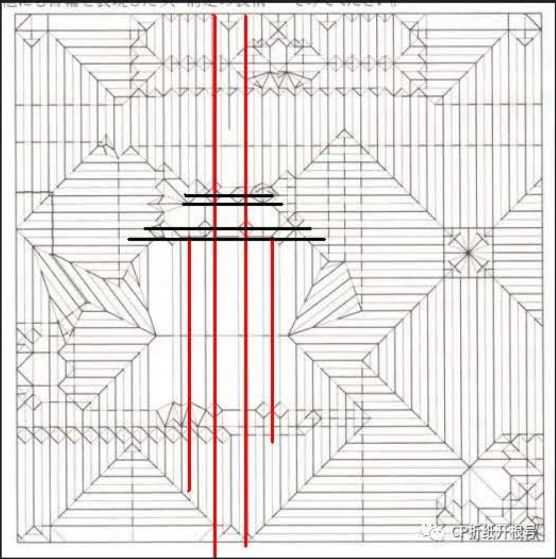
Followed by a horizontal segment fold.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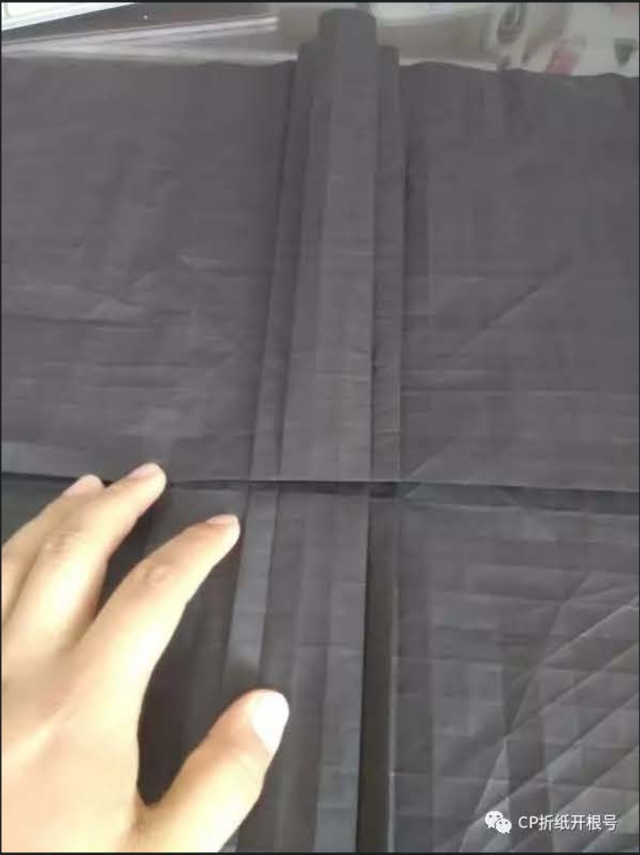

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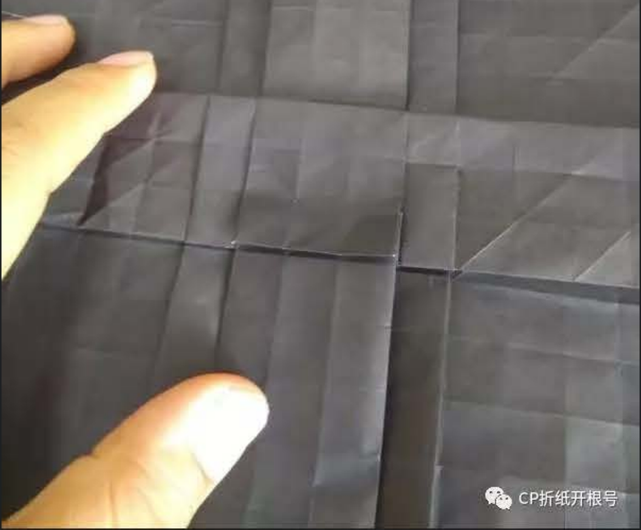
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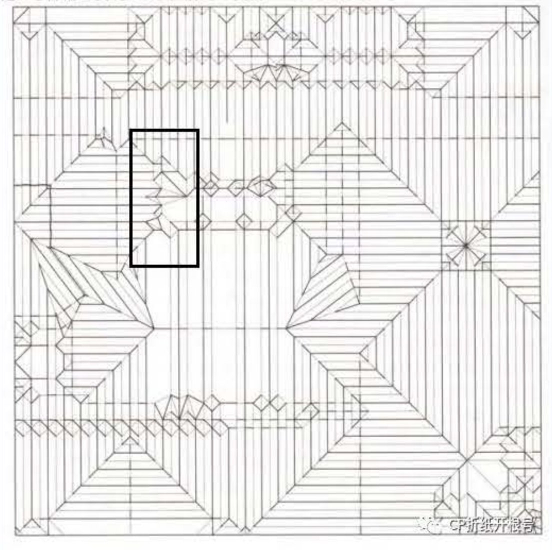
After the horizontal section is folded, we gently pull a few small square structures to deal with it, and then start to aggregate the transition structure as shown below, and then start to fold the inconspicuous sawtooth structure.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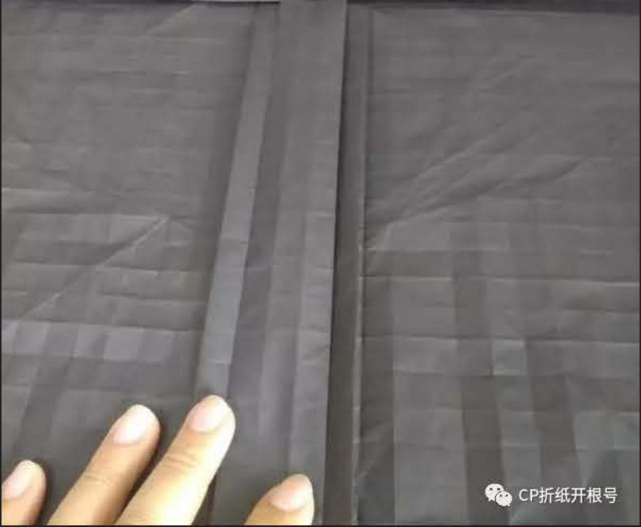

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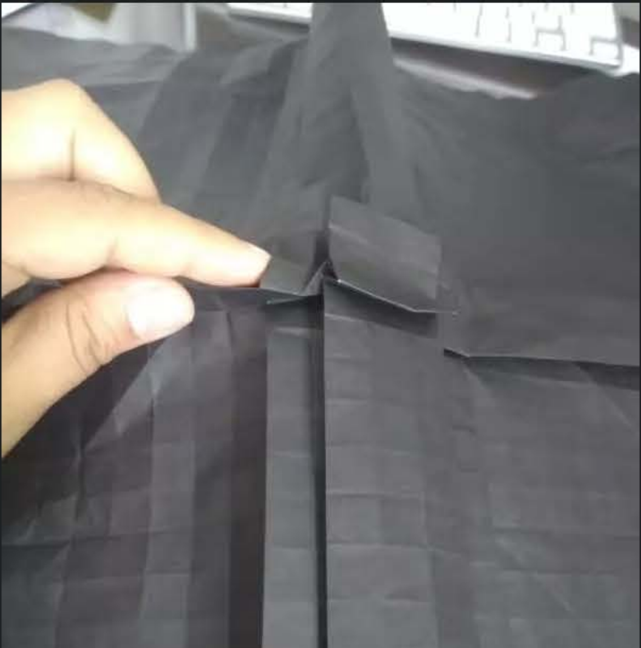

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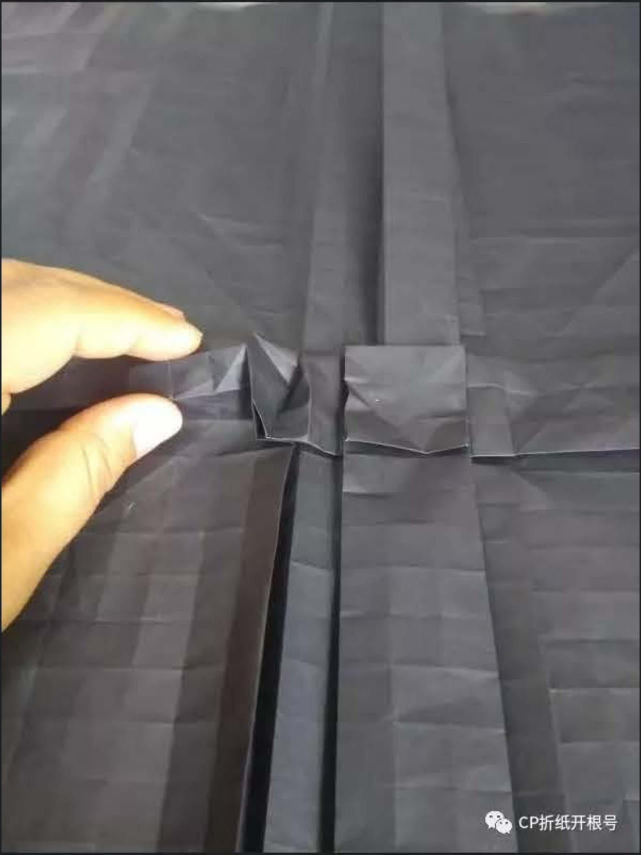
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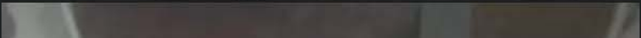

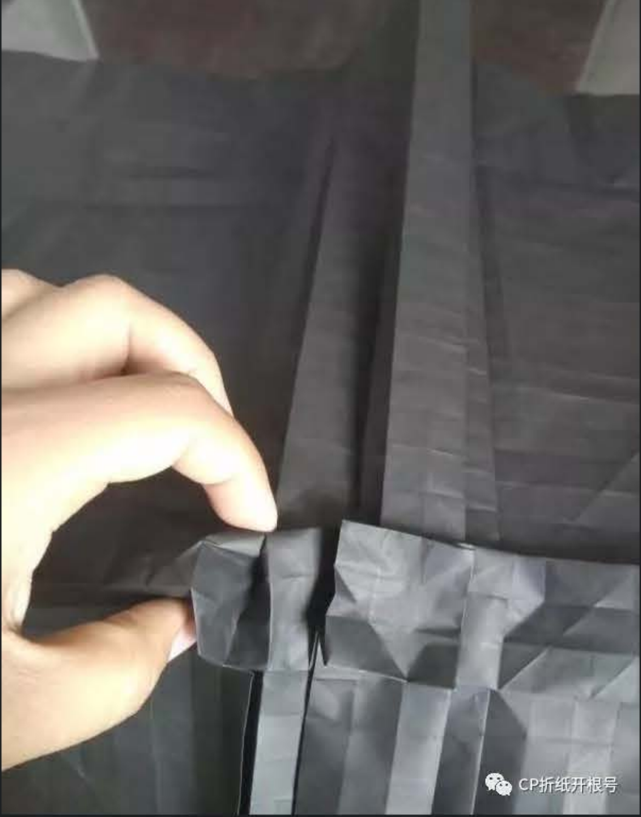

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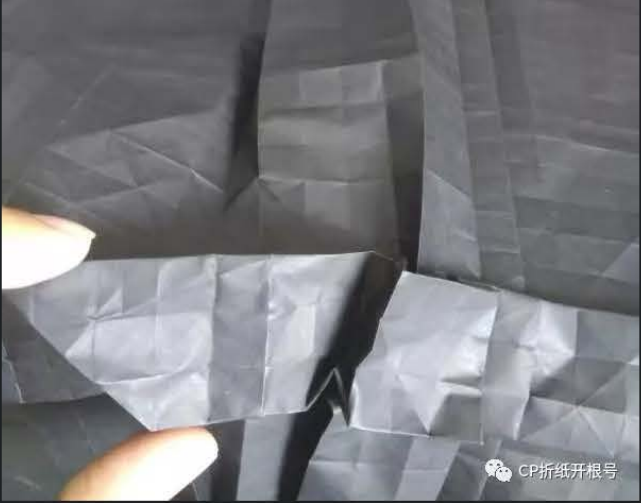

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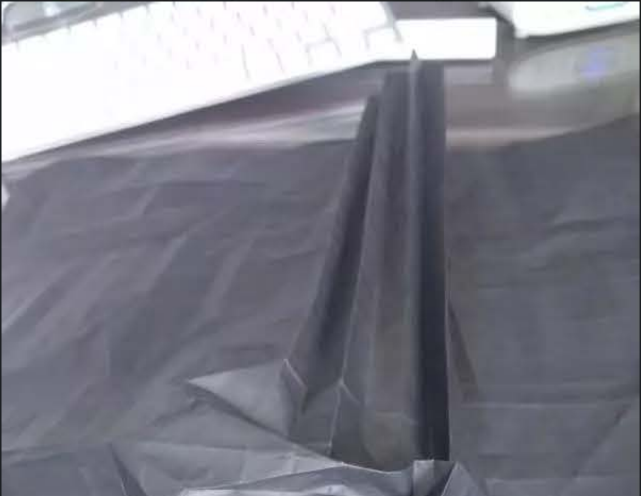

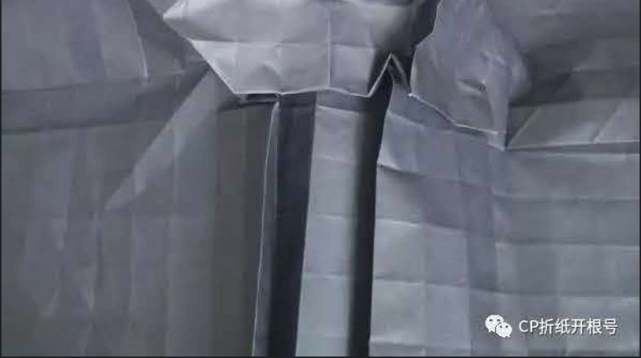
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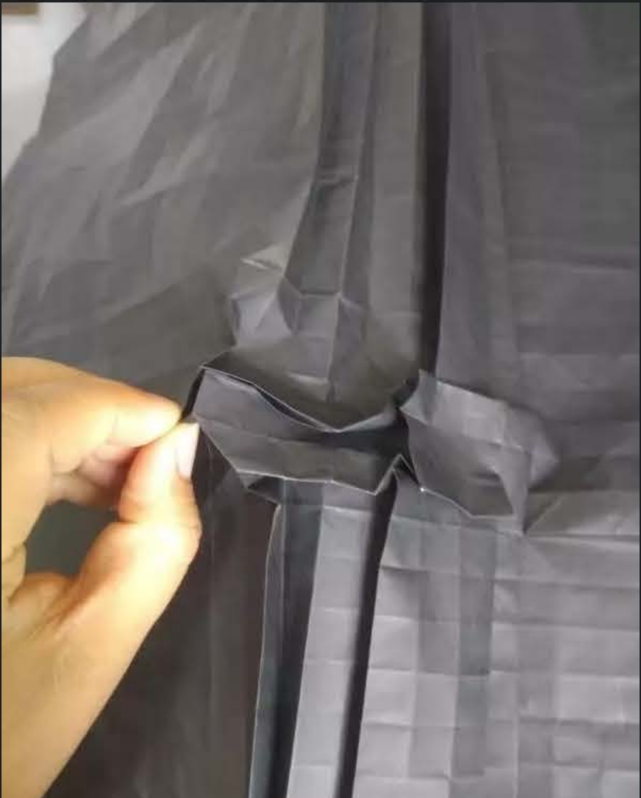

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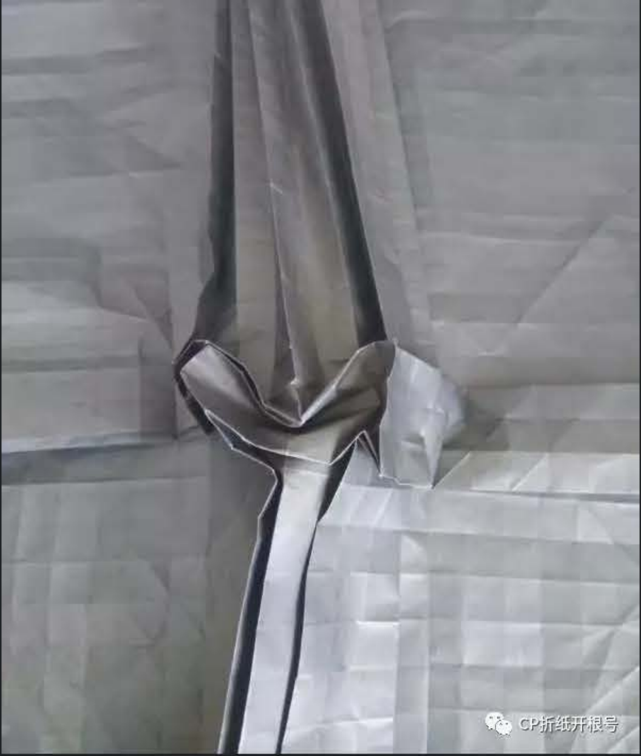
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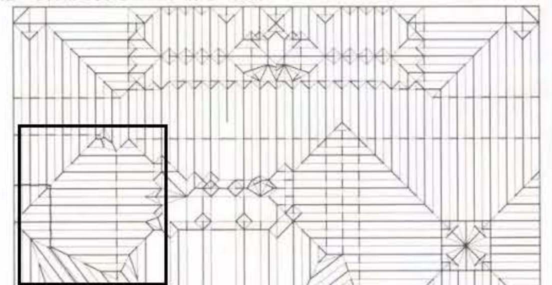
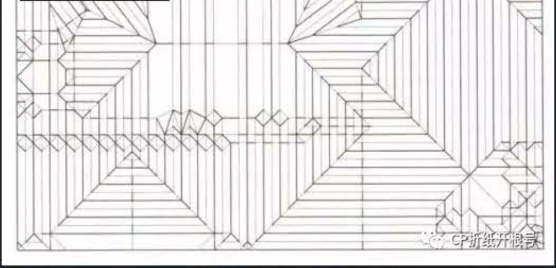
When converging, everyone must pay attention to the transition structure not to mix in casually, careful and serious is sometimes important, especially for those who really want to be original.





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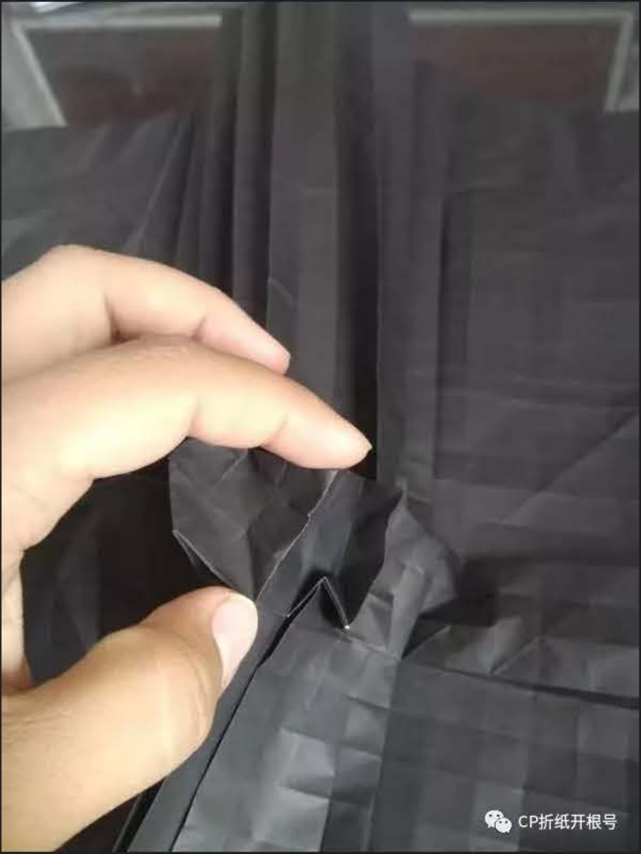

Here we need to lean up and down in order to gather more neatly, and gather up and down in a unit.

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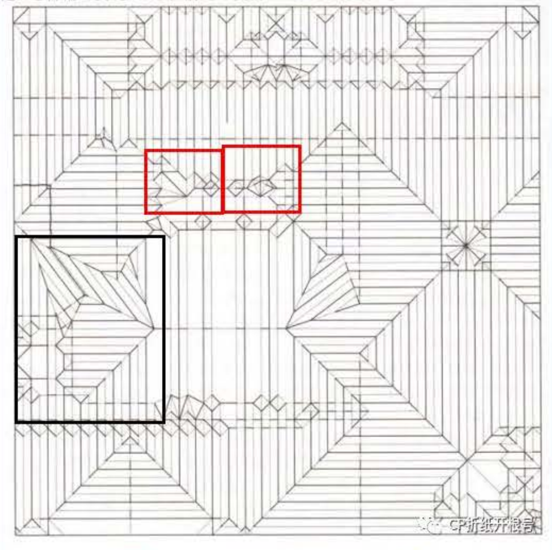
Closed up, open the bottom

Once again, I remind you that the red part in the figure below is just a transitional structure. Please fold it out and don't pinch it directly.



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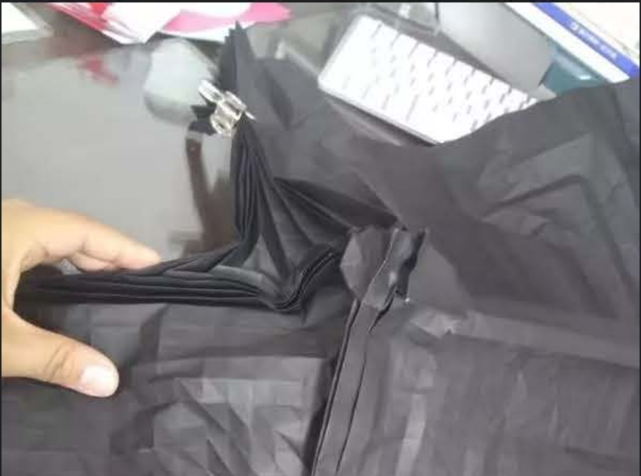

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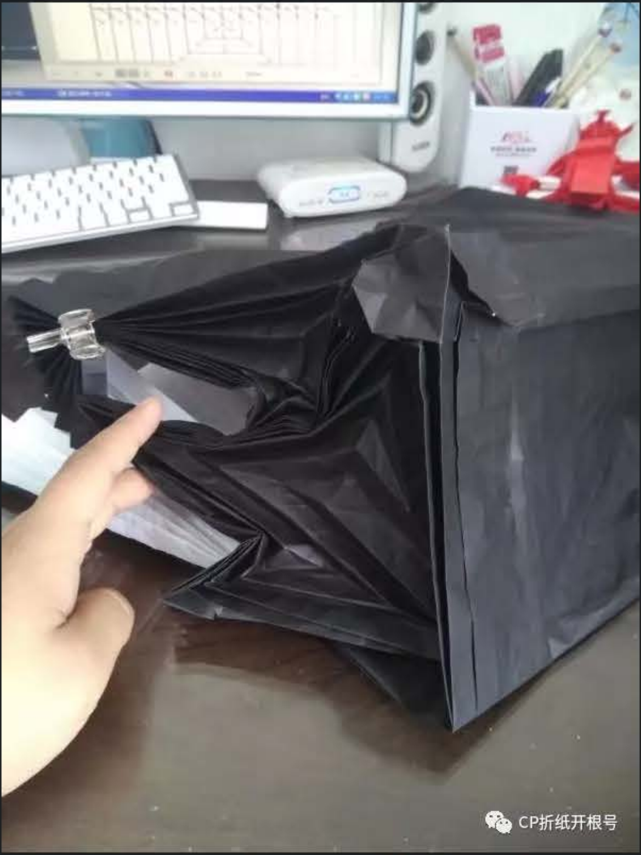

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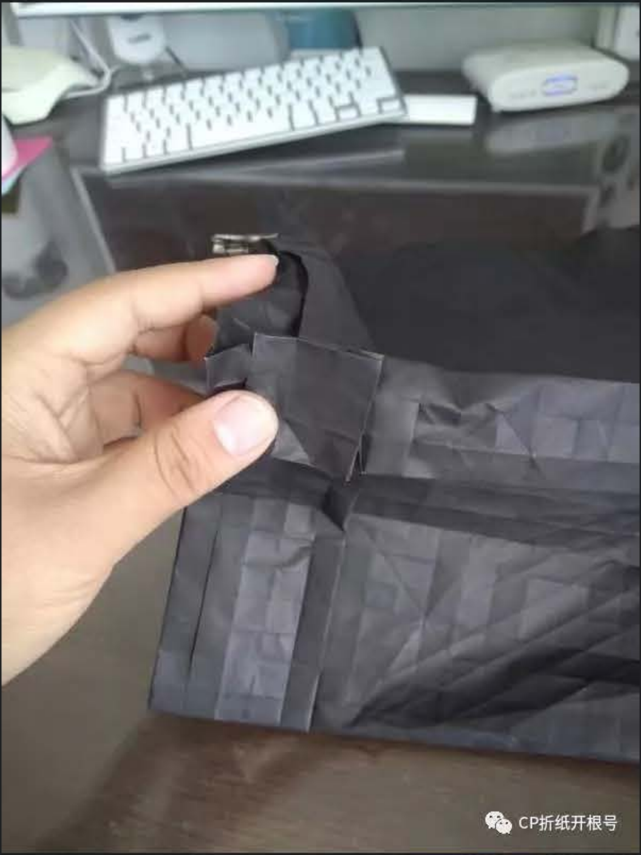
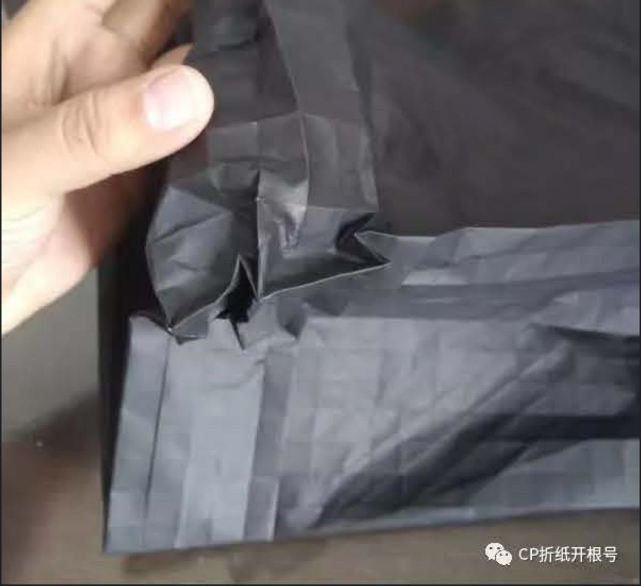
In the above picture, we basically finished the left part. Let 's start the aggregation on the right.





Pulling out of here, we will sort out the transition structure in the two red boxes in the picture above.

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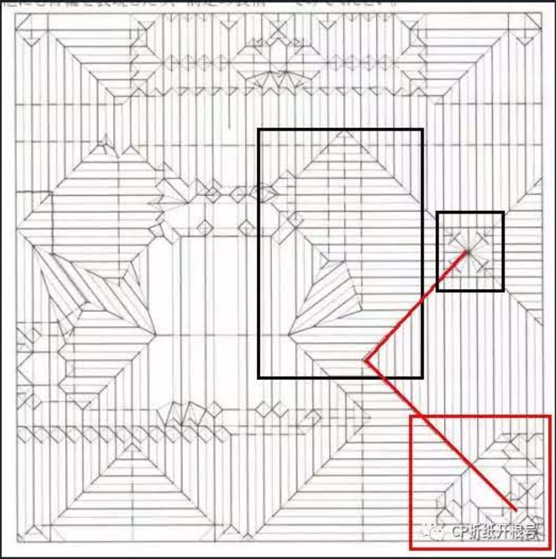
Below we turn on the large zigzag structure on the right, which is the big black frame in the figure below



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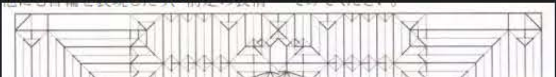
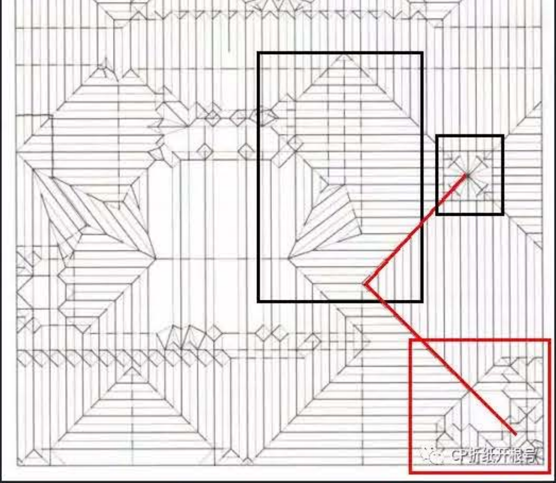
Next, we use the red line to indicate the direction of the aggregation. After a few corners, the red box is finally completed.





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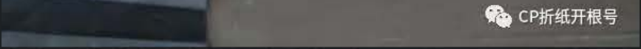
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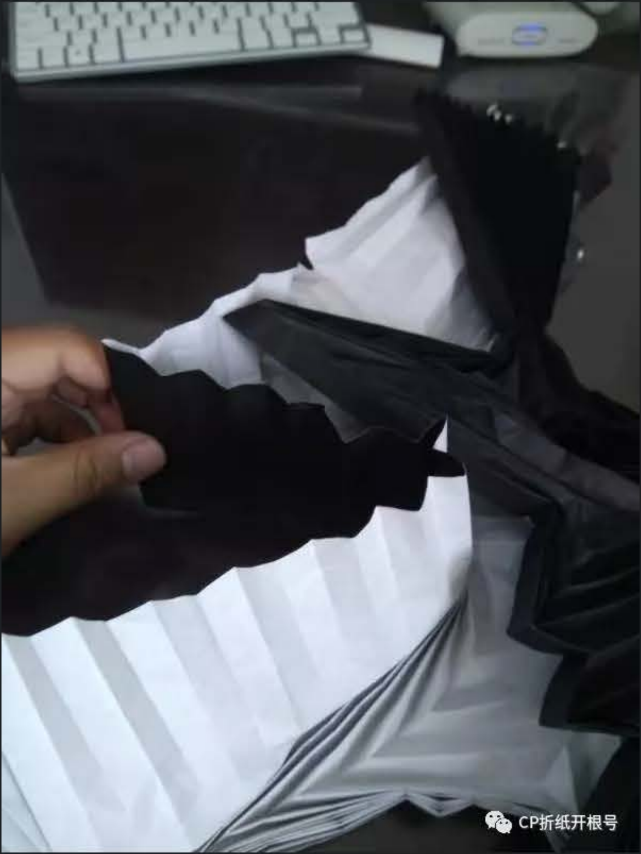
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In this step we flip the paper and make a fold from the inside

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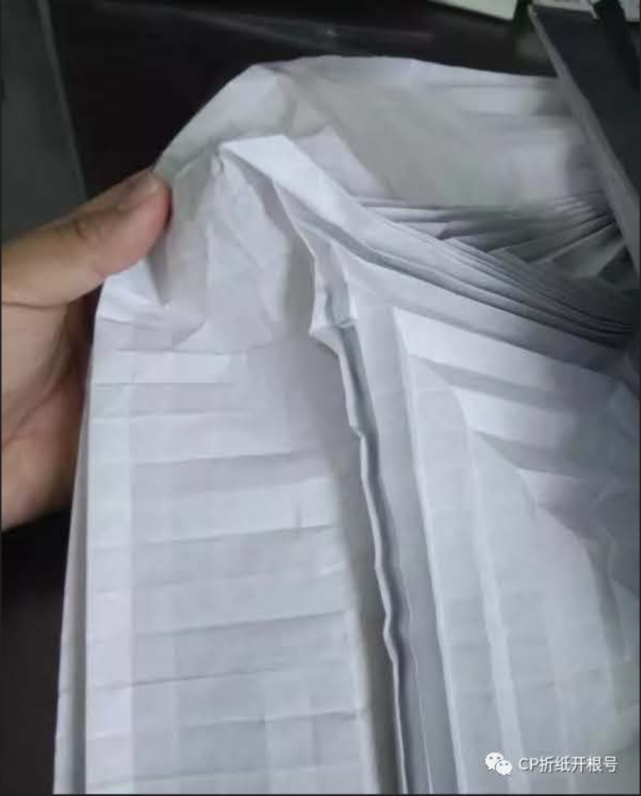

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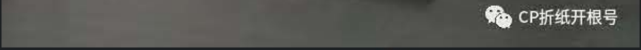
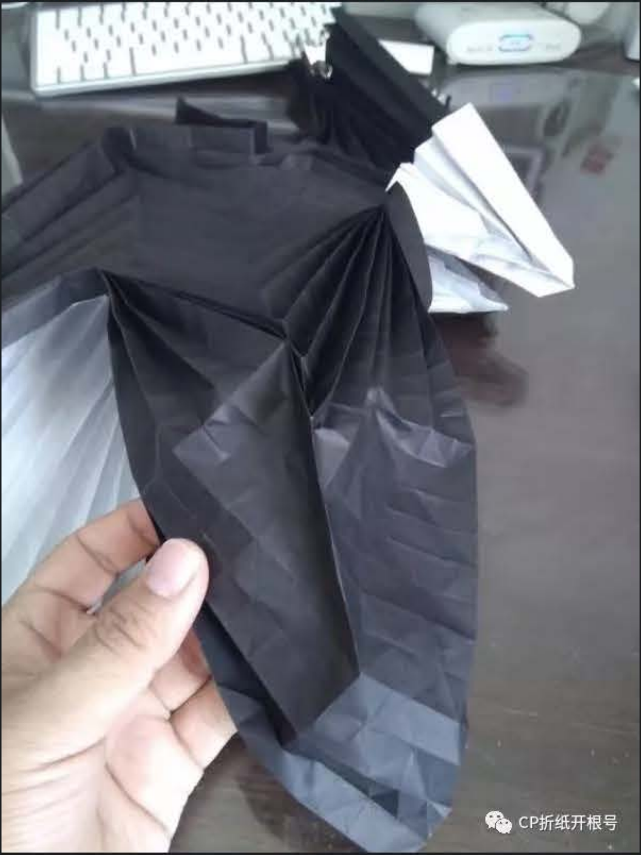


From this step we aggregate the parts of the cat



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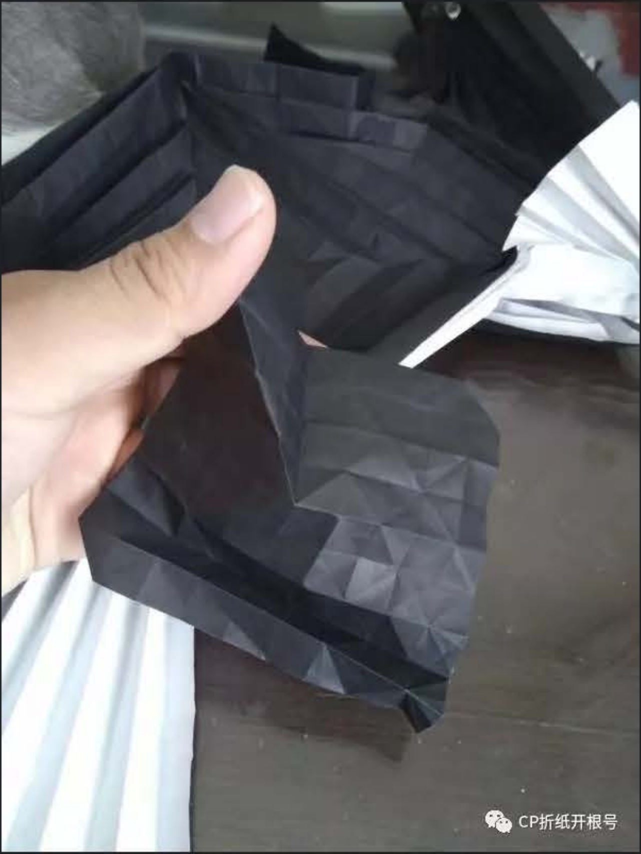

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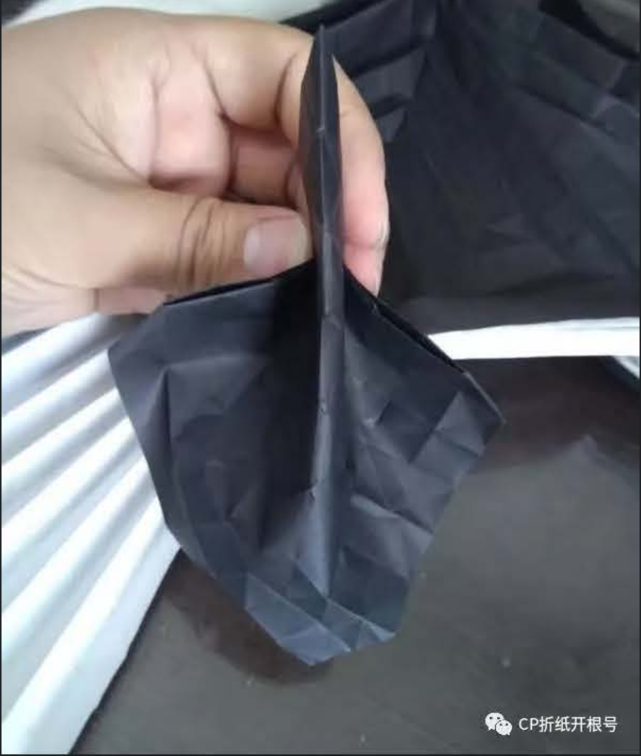

The peaks and valleys here are short and chaotic. You should pay attention to the relatively long part first, so that you can get started.

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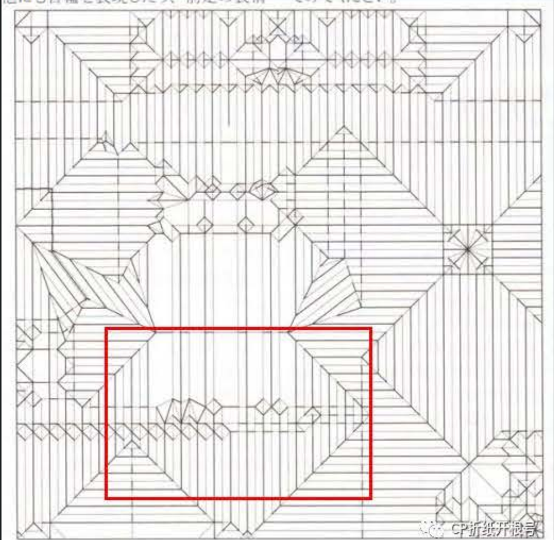
Let's deal with the red area in the picture below, finish the parts that need to be adjusted in the middle of the valley fold, and then deal with the two long legs of the witch.



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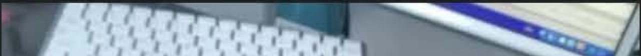

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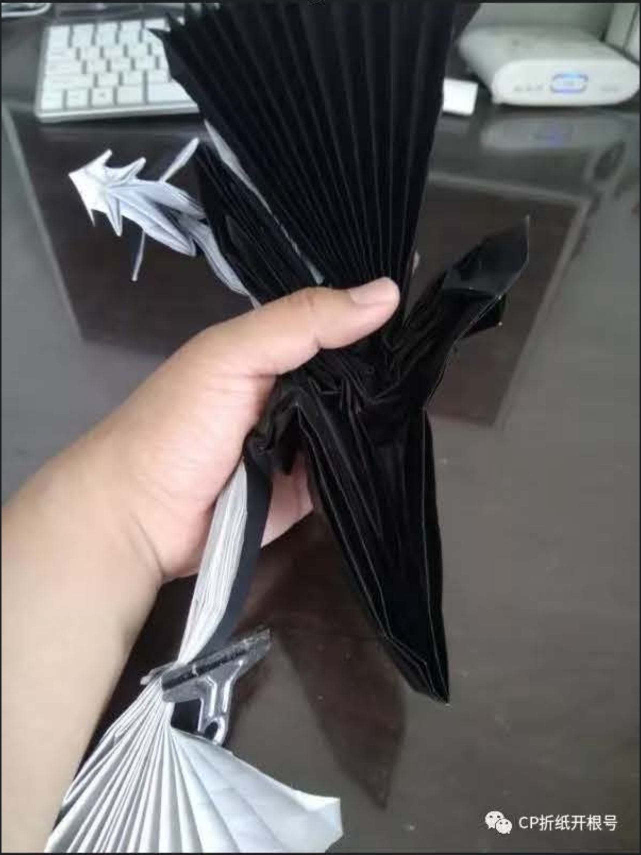
A few internal and side views are given below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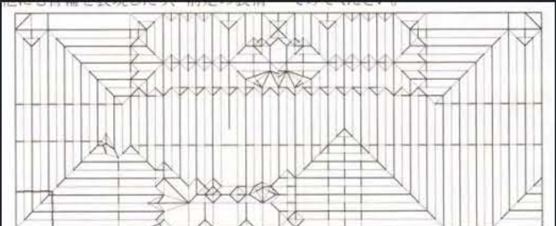
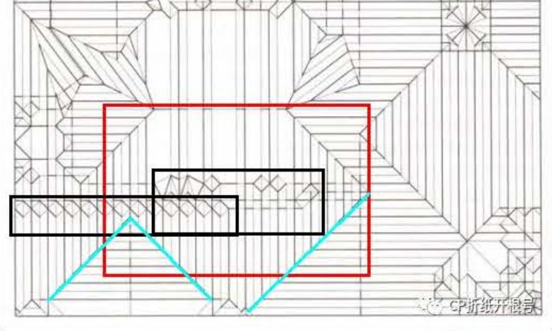
Next, as shown in the figure below, pull the paper layer apart and separate the two legs first, then adjust the position by combining the multi-paper layer operation of the small black square.





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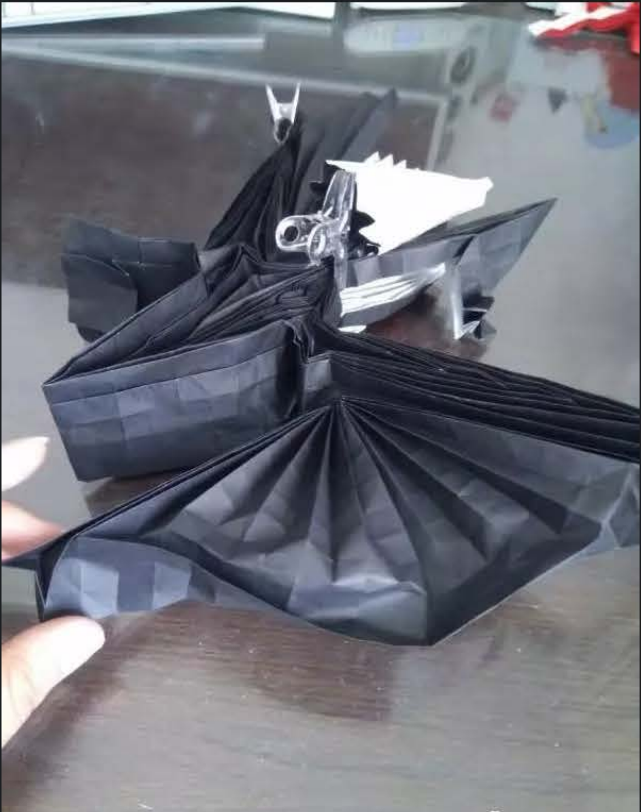

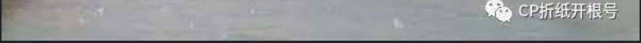

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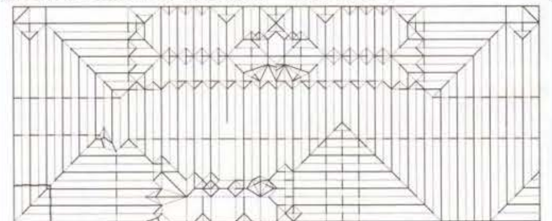
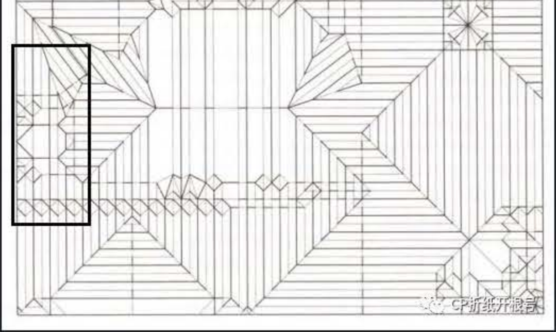
The lower body is almost the same. Let's pull out the part that has just been gathered according to the figure below to complete the aggregation of the small backpack in the figure below.





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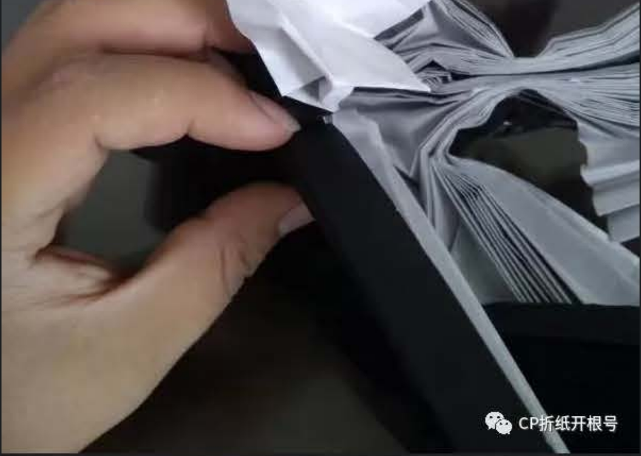

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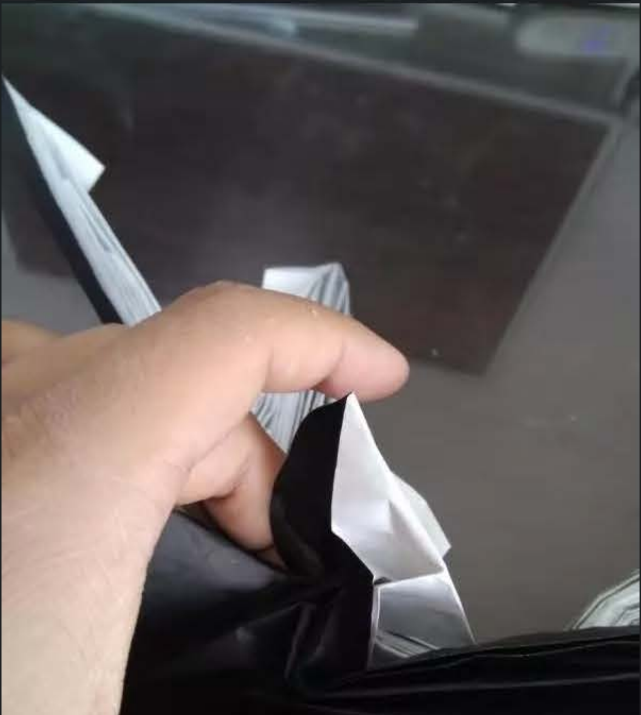

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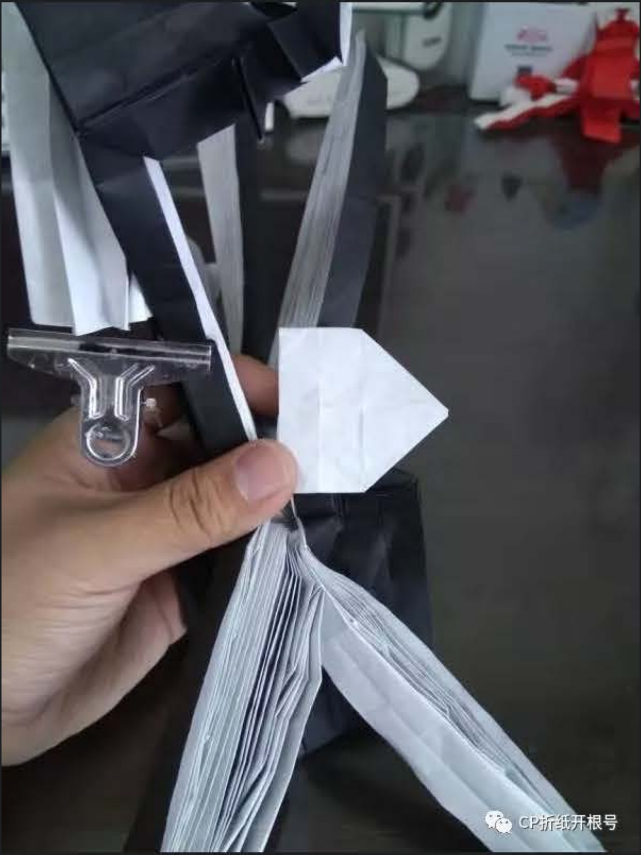

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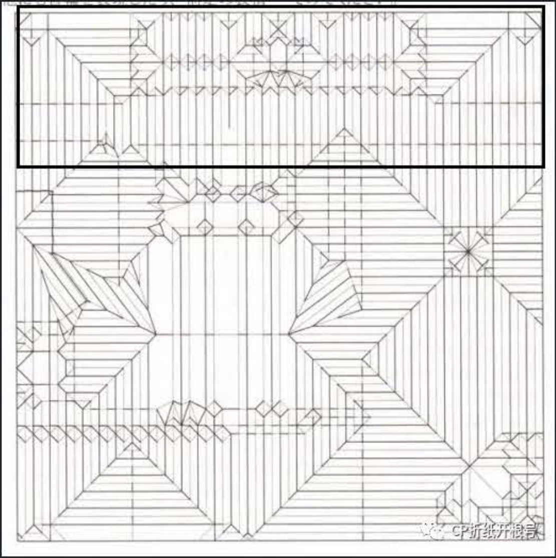
Let's start the final part, the convergence of head and hand.



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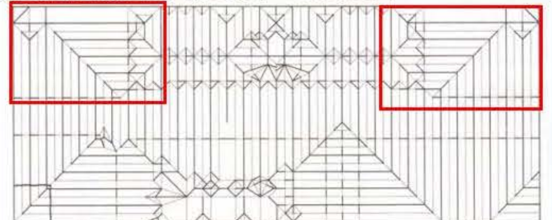
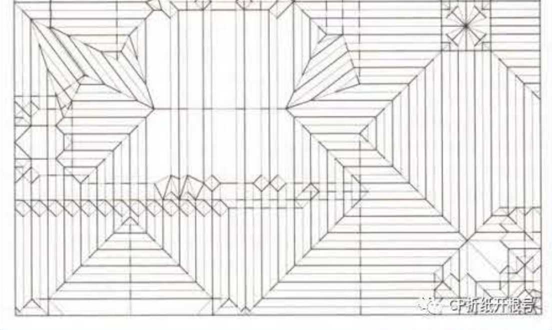
The arm parts on both sides are processed first.

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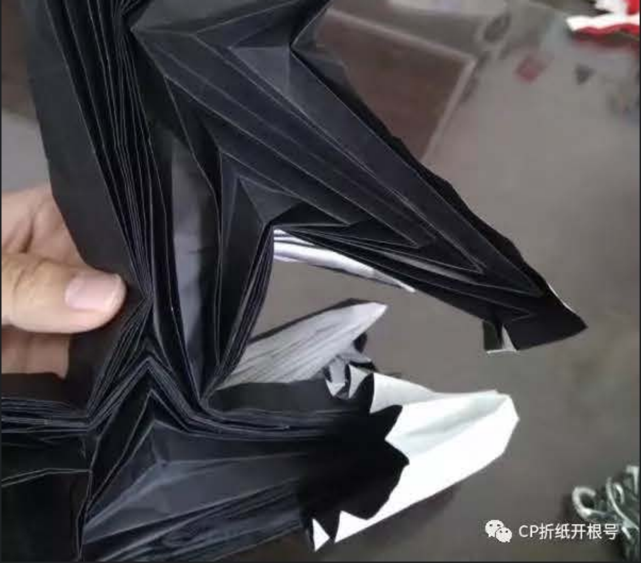
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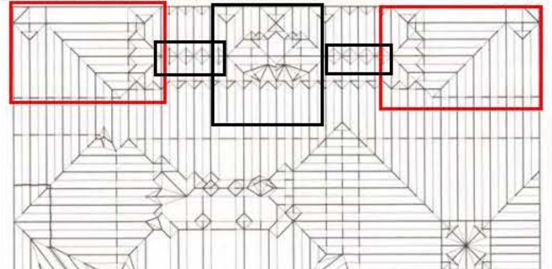
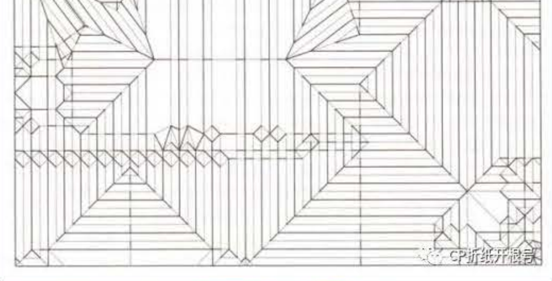
After the arm is processed, we will aggregate to the middle. Here we need to explain that the face and hair in the middle have inverse color treatment, but direct aggregation is not convenient. I put the inverse color treatment here on the plastic part and I said So here is just a simple aggregation.

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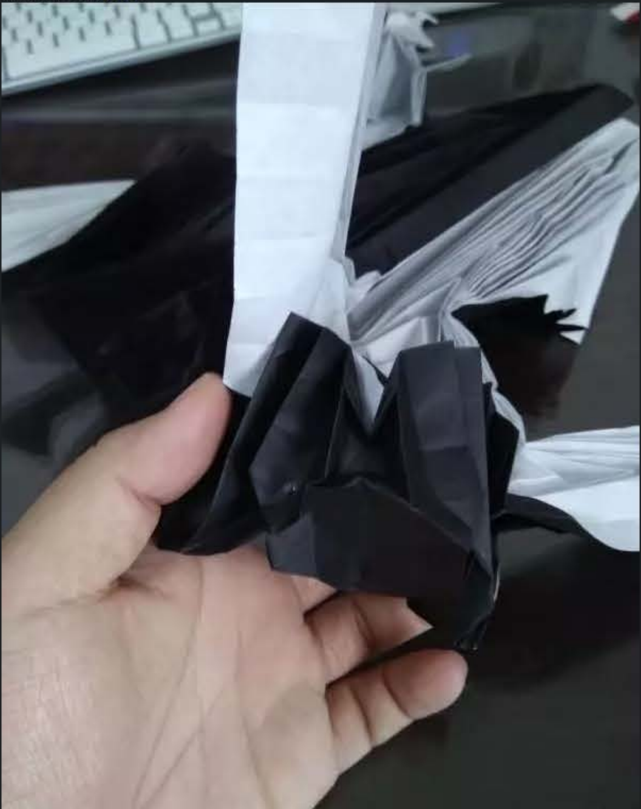
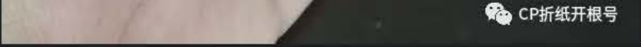
This step should actually be reversed, but my aggregated work is a long time before the branches of plastic surgery are fully supported. It will be explained together when plastic surgery.





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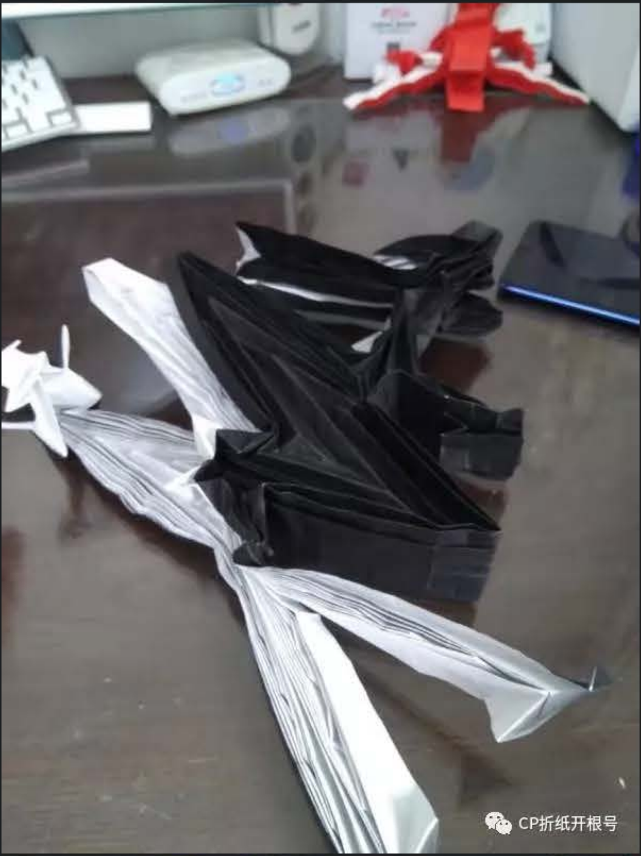

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Well, roughly we have completed the aggregation, and some of the small details will be discussed during the plastic surgery.

Now we start to do the shaping part. I only did this part after about a week. If time is limited, simply send out some related steps. Hope it will help everyone.
The first step is to unfold the branches, first to distinguish the structure and purpose. Here we first separate the two legs below and the part of the broom.

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After the separation, we should prioritize the cat part here, because this part is independent of the other parts and relatively small and difficult to organize.

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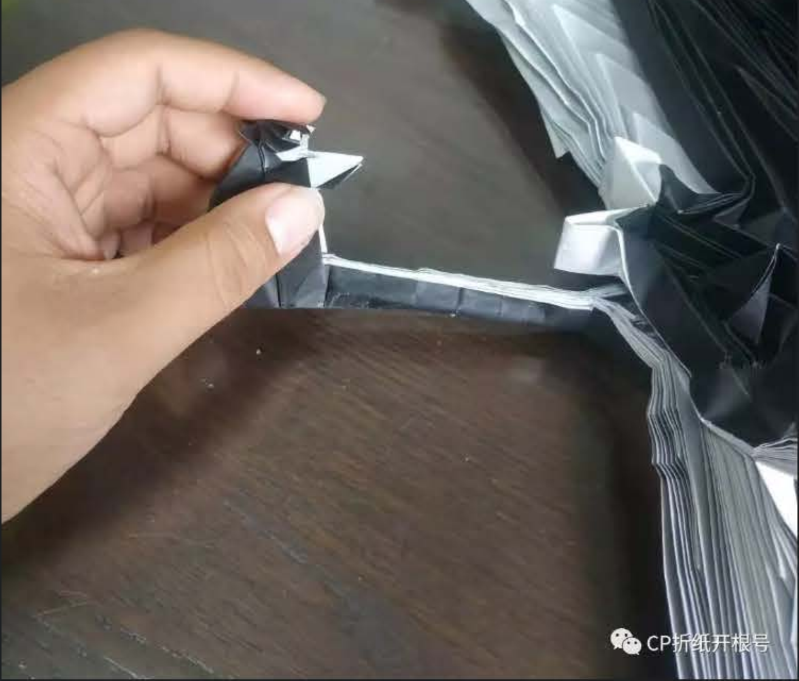
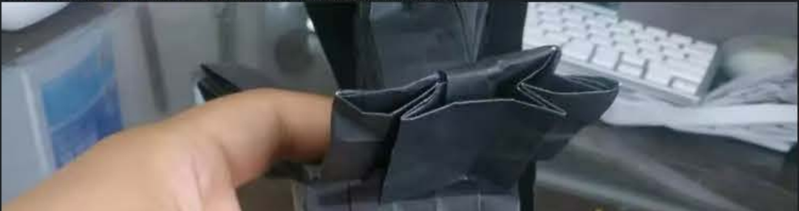


Below we pull open the inner paper layer of the skirt below so that the skirt part can wrap both legs and arrange the position of the legs.



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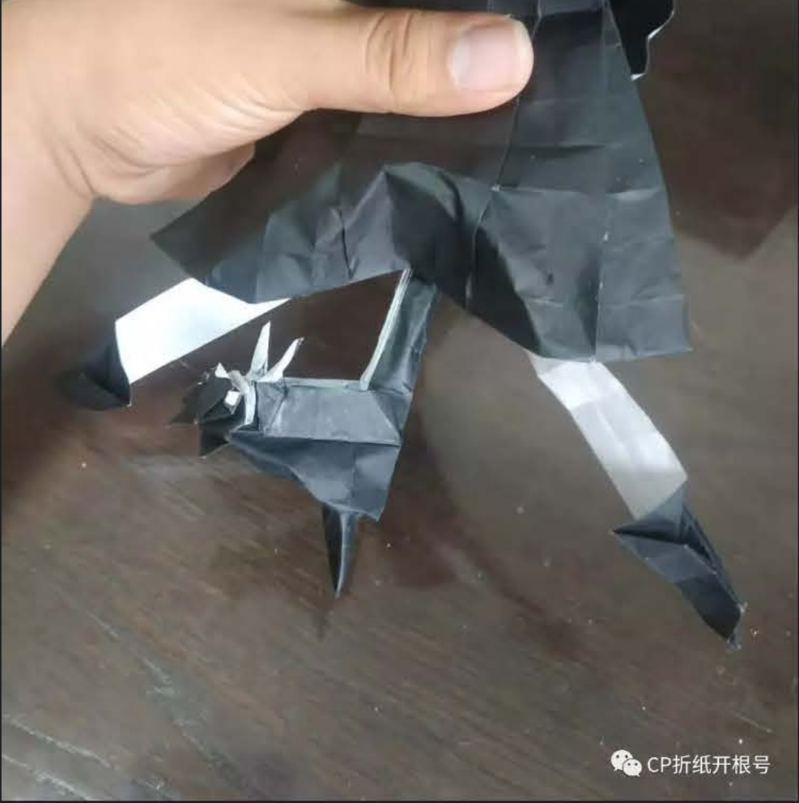
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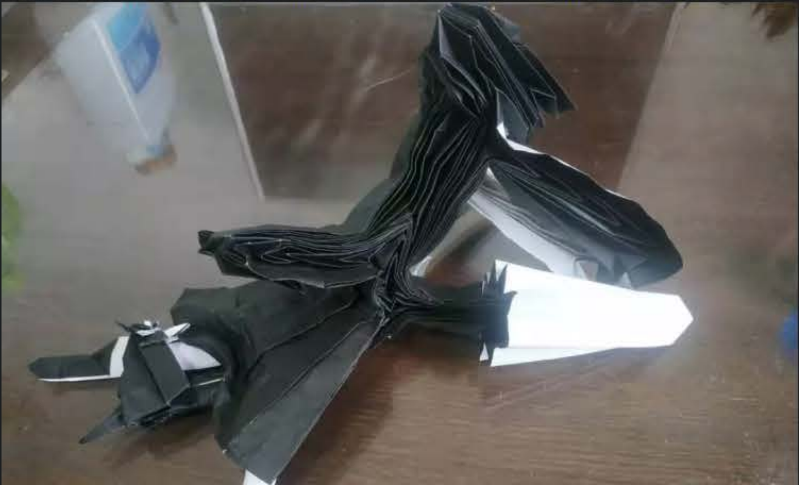
Next we will organize the head of the broom. Here we look back at a boxy crease in the right part of the CP. We will organize this part here. Make a three grid sinker



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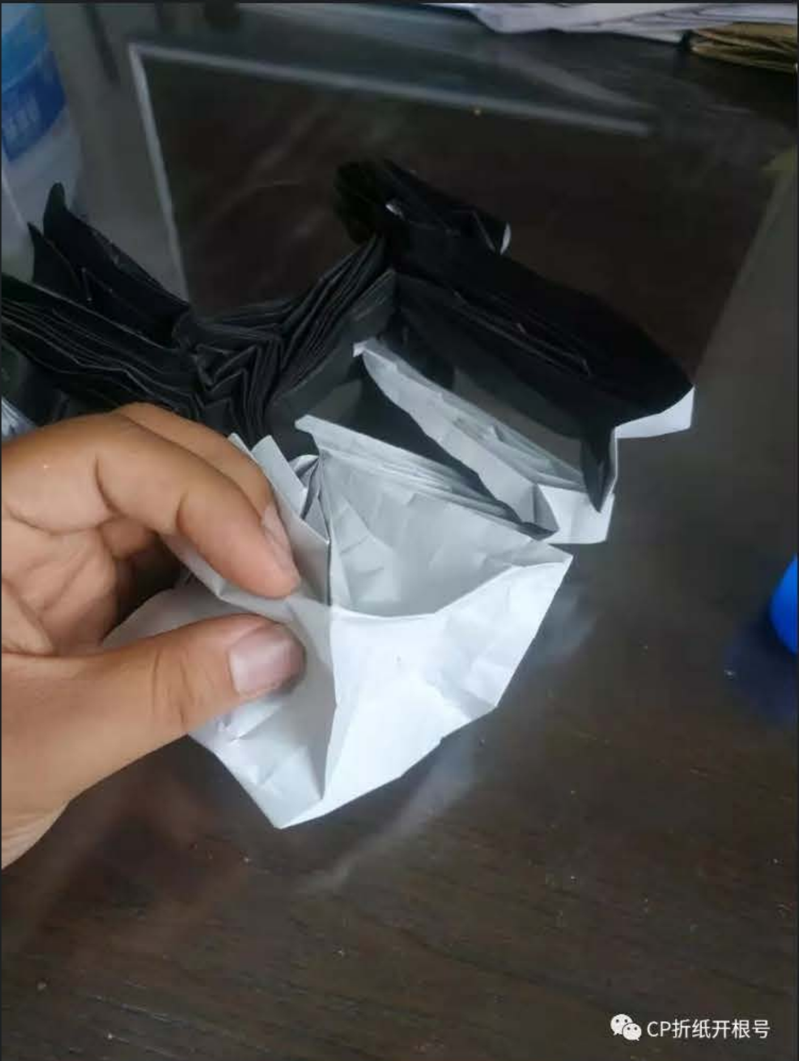

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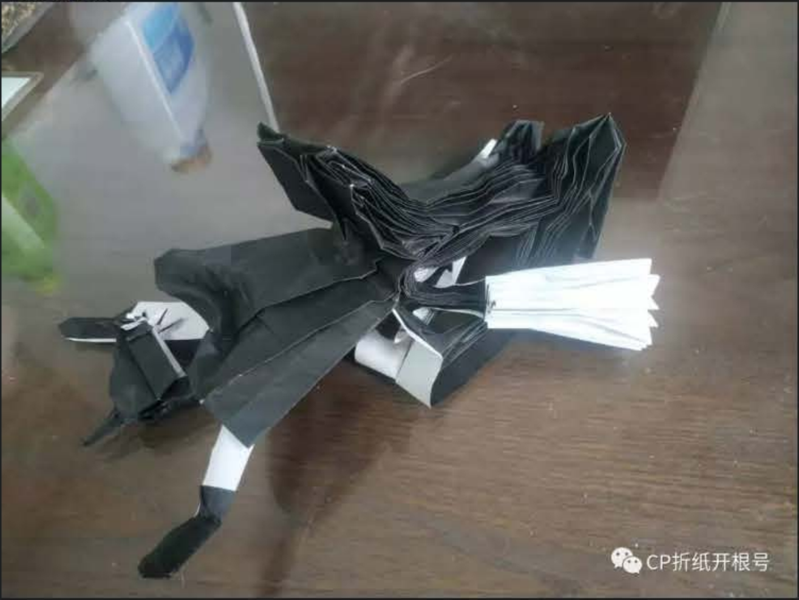
The broom head here needs to be adjusted at the end to make the head feel a little unwrapped.



Before finishing the head, let's reverse the bag straps.

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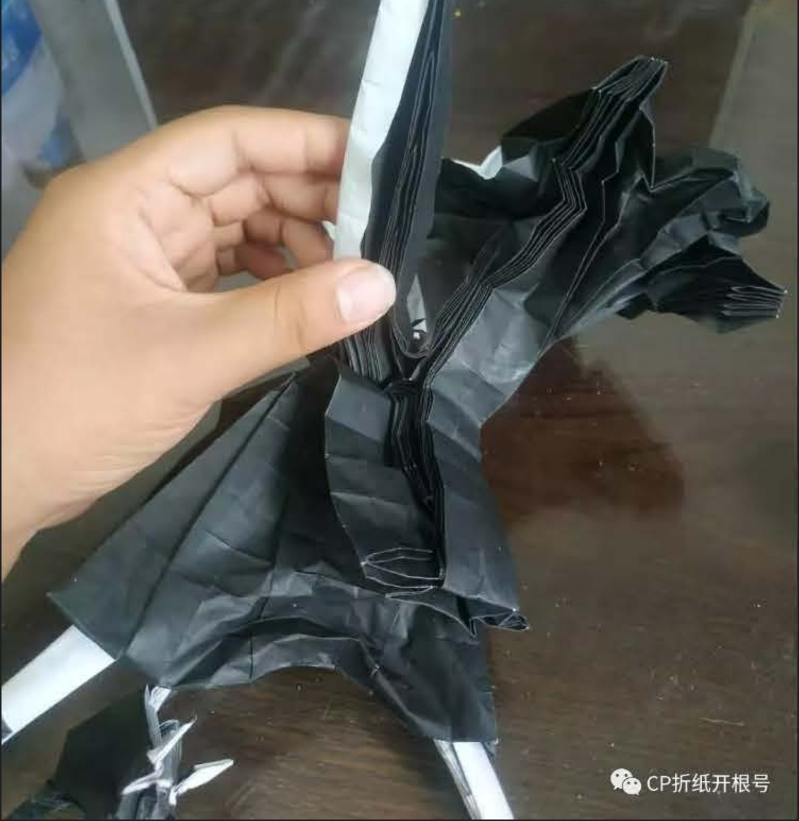

Next we organize the head, and by the way, reverse the reverse color that we did not do before.

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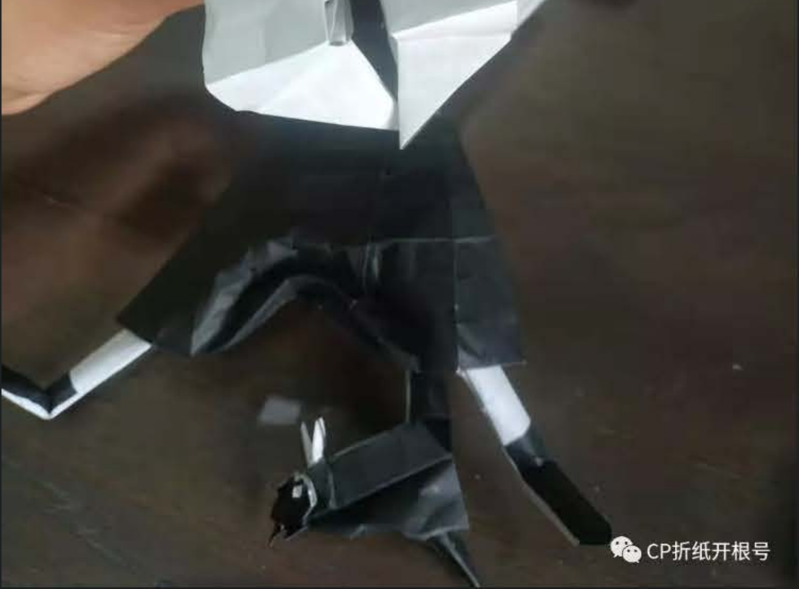
As far as the previous pictures, we have completed the inversion and folding. Now we want to reverse the whole, similar to the period of Xiaobai I explained earlier.



Reshape the head and face after twisting

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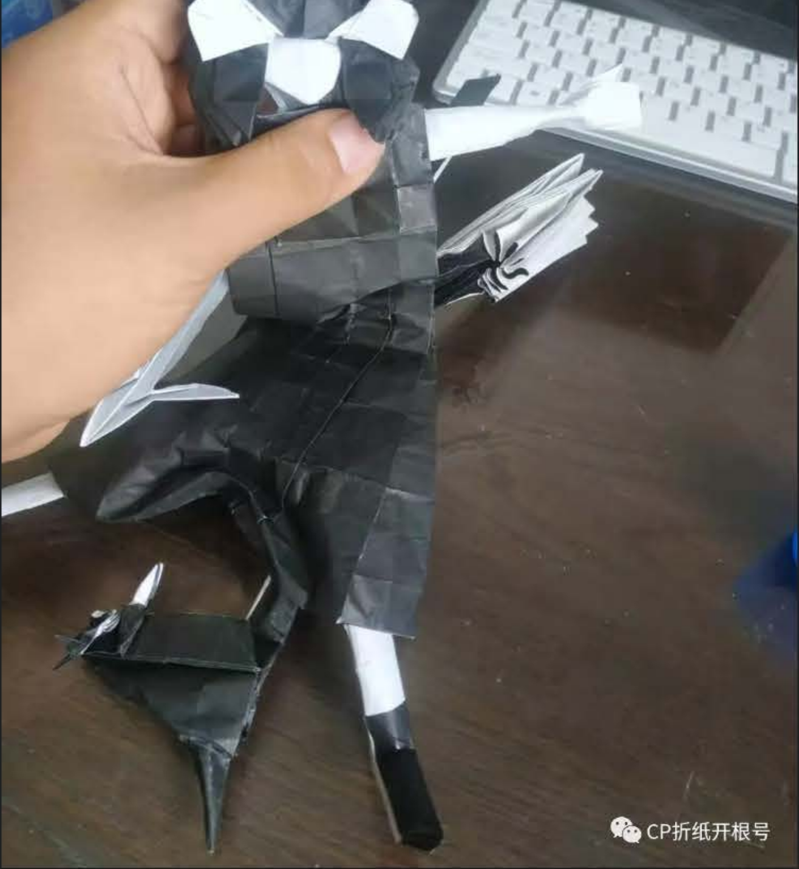
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Below we straighten the positions of the two arms.

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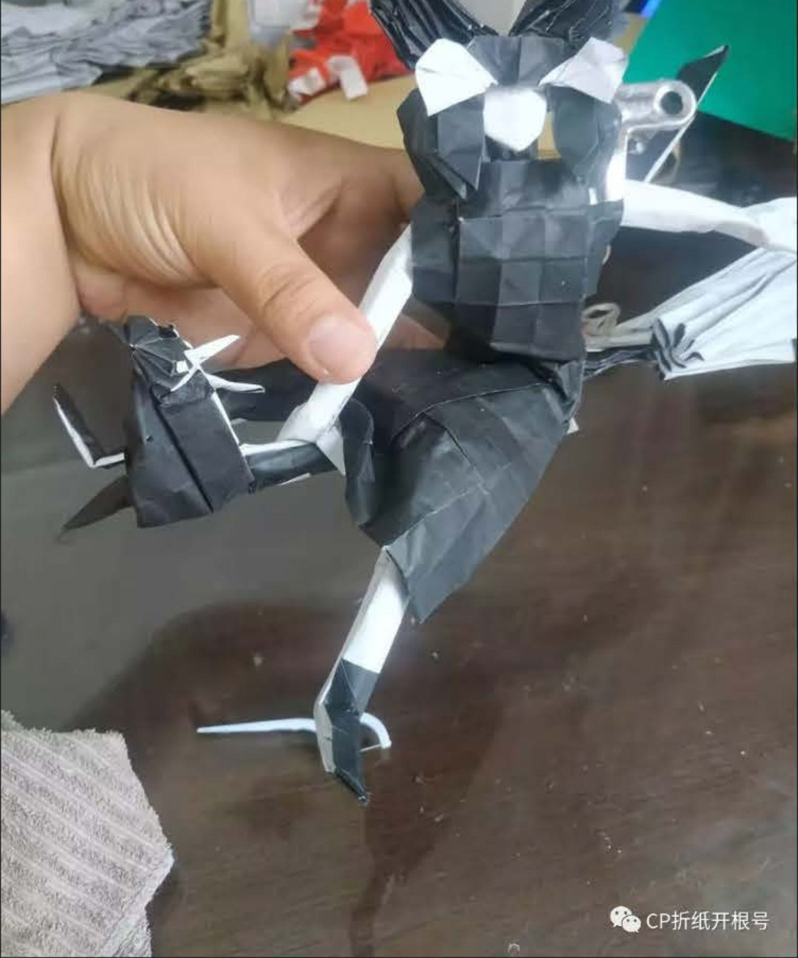

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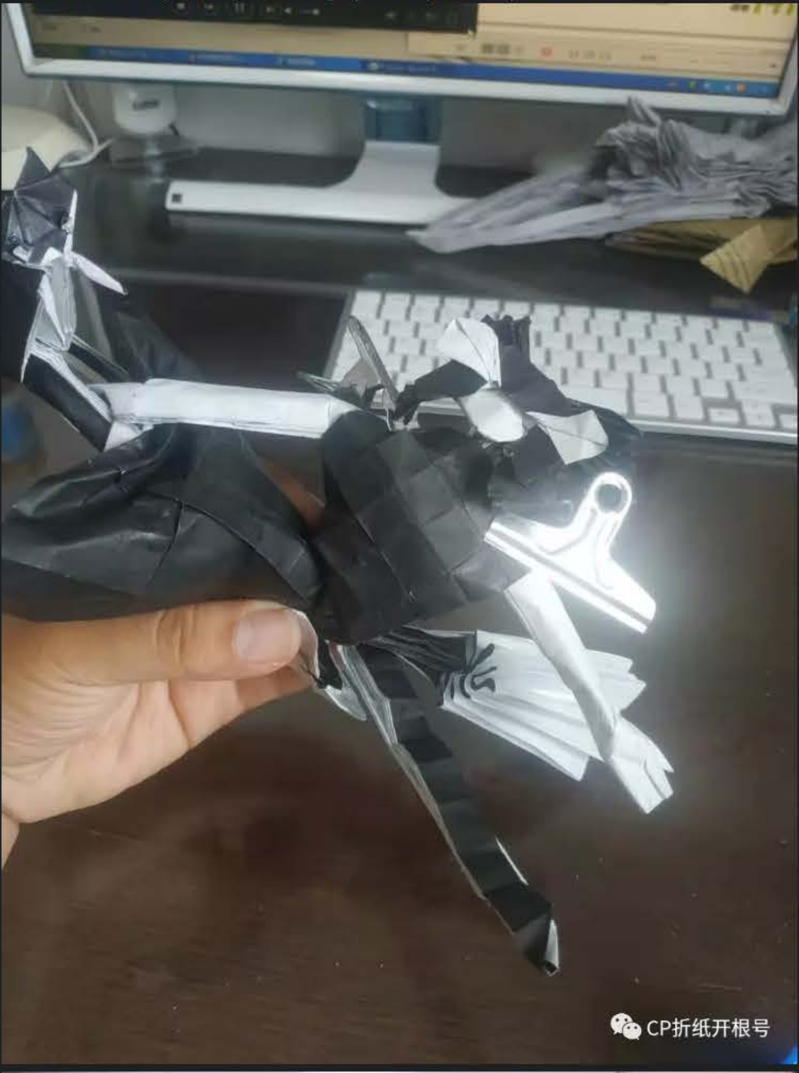
Next is the worst part of plastic surgery that I personally think of.



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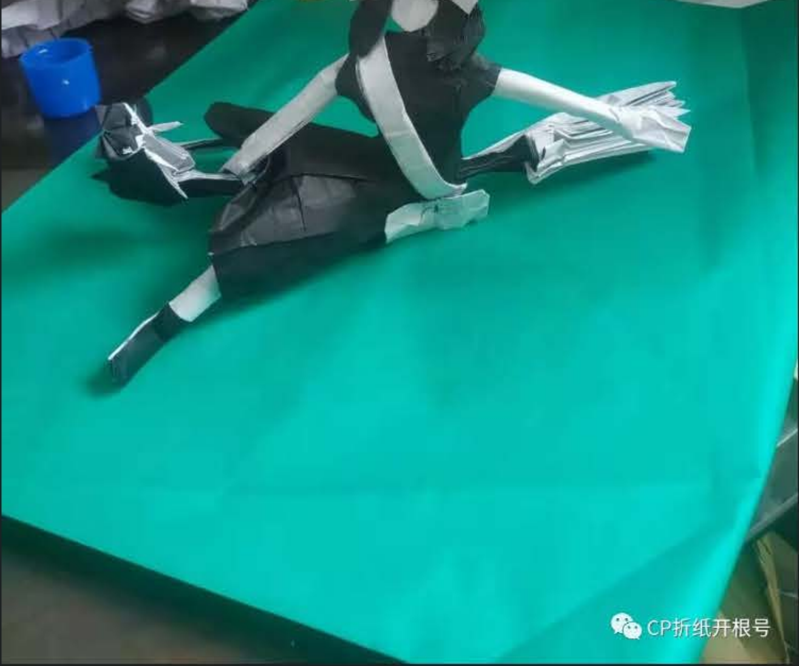

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When the glue is semi-dry, we need to adjust the relative position to make the work look more vivid. Then I'm done. What about yours?

That's it for this issue!
See you next time!

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