**Programming Keyboard**

**编程专用键盘**

**1**

Four decades ago, a computer keyboard looked like this:

40年前，电脑键盘大概长这样：



And four decades later, at present day, a computer keyboard still looks like this; it haven’t changed much.

40年后，一直到现在，电脑键盘基本上还是长这样，没多大变化。

So for we young people, the keyboard was just like this when we started to learn how to use it at the very beginning; and we get used to what it is like now.

对于我们年轻人来说，从最初我们开始学键盘时它就是这样，而我们也习惯了它这个样子。

We are so used to it and maybe you ignored some problems. for example, did you notice that many of the characters on the keyboard shared the same key with the other character?

我们对它太熟悉了以至于我们可能会忽略掉一些问题。比如，估计很多人都不会在意在我们的键盘上，有很多符号都是跟另外一个符号共用一个按键的。

@ shares the same key with the number 2, \* shares the same key with number 8, ? shares the same key with / ,etc; When you press this kind of keys , the character below was input by default; if you want to input the characters at the above, you must press both the “shift” key and the character key at the same time.

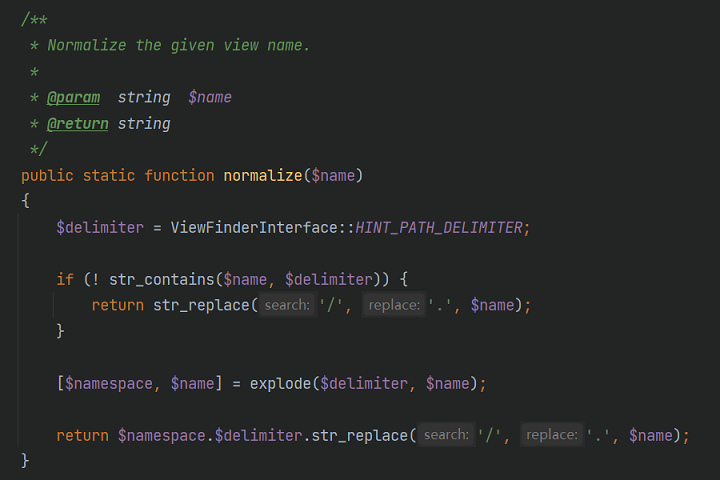
“@“和”2“共用一个按键，”\*“和”8“共用一个按键，”?“和”/“共用一个按键等等；当你按这些按键时，默认输入的是下面那个符号，你如果想输入上面那一个符号，你得同时按着”shift“键。

Well, some people may just use those characters occasionally, so it seems not so unconvenient for them; but for programmers, they use every character of those a lot for every day. They may press the “shift” key thousands of times per day. This costs a lot of work.

有些人可能不经常用到那些符号，所以也并不感觉有多不方便；但是对于程序员来说，那些符号每一个都很常用，他们一天可能得按“shift“键上千次，增加的工作量还是挺大的。

If your programming language is PHP, I’m sure the “$” character could almost have killed you after a long day programming.

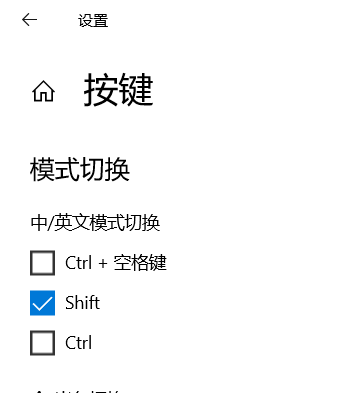
如果你的编程语言是PHP，那么我敢肯定，你一天编程下来，肯定打“$“符打得崩溃。



**2**

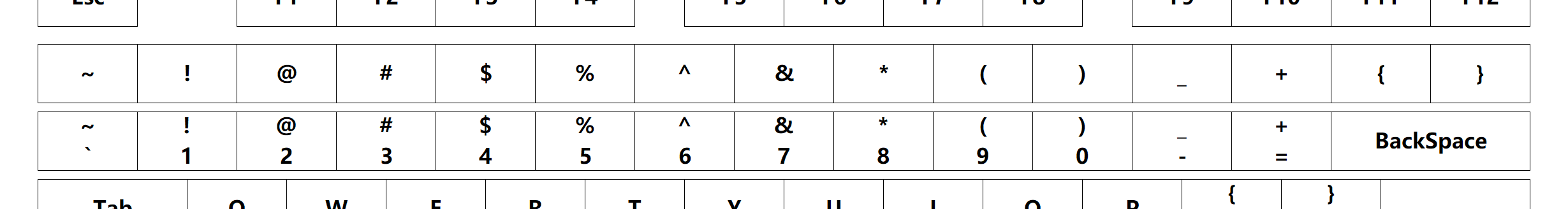
And there’s another problem. If your mother lauguange is not English, you will have to change your input mode frequently when you use the computer keyboard, especially when you are a programmer. And at the mean time, the input mode shift key is “shift” by default in Windows. (Actually the word “shift” means nothing to you if your mother languange is not English, it’s just a shift key). When you want to input the above characters you’ll have to press “shift” key, and sometimes you may change the input mode by mistake while you don’t want to change it at all, this will cause you much annoyance.

另外还有个问题，如果你的母语不是英语，那么你使用键盘的时候肯定得经常切换输入法，特别是如果你是一个程序员。而切换中英文输入法的按键在Windows里面默认的是“shift“键。（其实如果你的母语不是英语，你多半也不知道”shift“就是切换的意思，对于你来说它就是一个”shift“键）。当你想输入上面的符号，就得去按着”shift“键，一不小心按错了，你就把中英文输入法给切换掉了；这一点挺烦人的。



So why don’t we set those characters which need us press the “shift” key at the same time when we input them on a seperated key, this way, we don’t have to press the “shift” key when we input those characters; just like the picture below:

所以，我们为什么不把那些需要“shift“键才能输入的符号放到一个独立的按键上呢？这样的话，当我们输入那些符号的时候，我们就不需要再按着“shift”按键了；就像下图这样：



If we don’t have to press the shift key, we won’t have the input mode shift problem; and especially this can save a lot of work for programmers.

如果我们不需要按“shift“键，也就不会有输入法切换问题，特别是也可以让程序员省事很多。

**3**

Furthermore, in order to increase our input efficiency, IDE and many other softwares provide us many shortcut keys; the most famous ones are Ctrl+c and Ctrl+v; we use those shortcut keys so frequently, so why don’t we use just one key to fulfill these operations? There’s no difficulty with tech to make this happen. why do we press 2 keys if only we have a choice to press 1 to achieve that.

还有一点，为提高我们的输入效率，IDE或者其他类型软件都会给我们提供很多快捷键，最常用的快捷键莫过于Ctrl+c 和 Ctrl+v；这些快捷键的使用频率这么高，我们为什么不把它独立成一个按键来实现这些功能呢？其实实现这些根本没有什么技术上的难度；如果我们按一个按键就可以实现这些功能，谁还愿意去按两个按键呢？

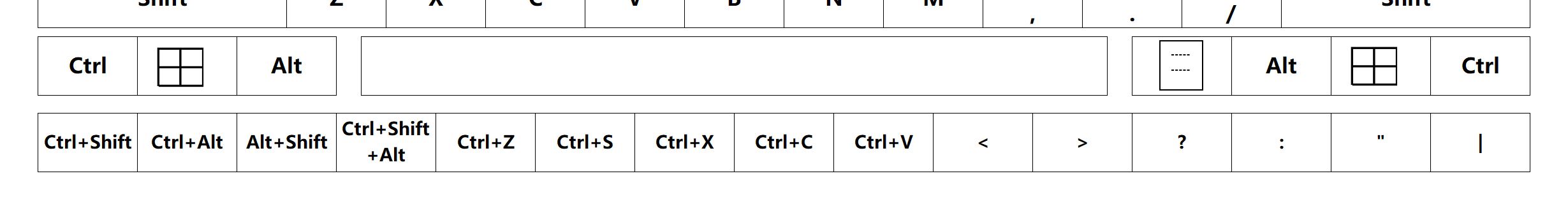


Well, actually 2 keys shortcut is ok with most of the people; the annoying shortcut is 3 keys shortcut or even 4 keys shortcut; for example: “ctrl+alt+del” or “alt+shift+esc” or “ctrl+shift+alt+j”.

其实2键快捷键还好，最要命的是3键甚至是4键快捷键，比如：“ctrl+alt+del” or “alt+shift+esc” or “ctrl+shift+alt+j”。

For some of the regular combinations, we can arrange them just on one key, and this will make many of our shortcuts much more easier; it’s just like the picture below:

那么最常用的一些快捷键组合，我们都可以把他们独立成一个按键，这样我们的快捷键使用起来会更加便捷，就像下图这样：



How do you like this idea?

你觉得这个主意这么样？

I think programmers need this very much.

反正我觉得程序员挺需要这些的。

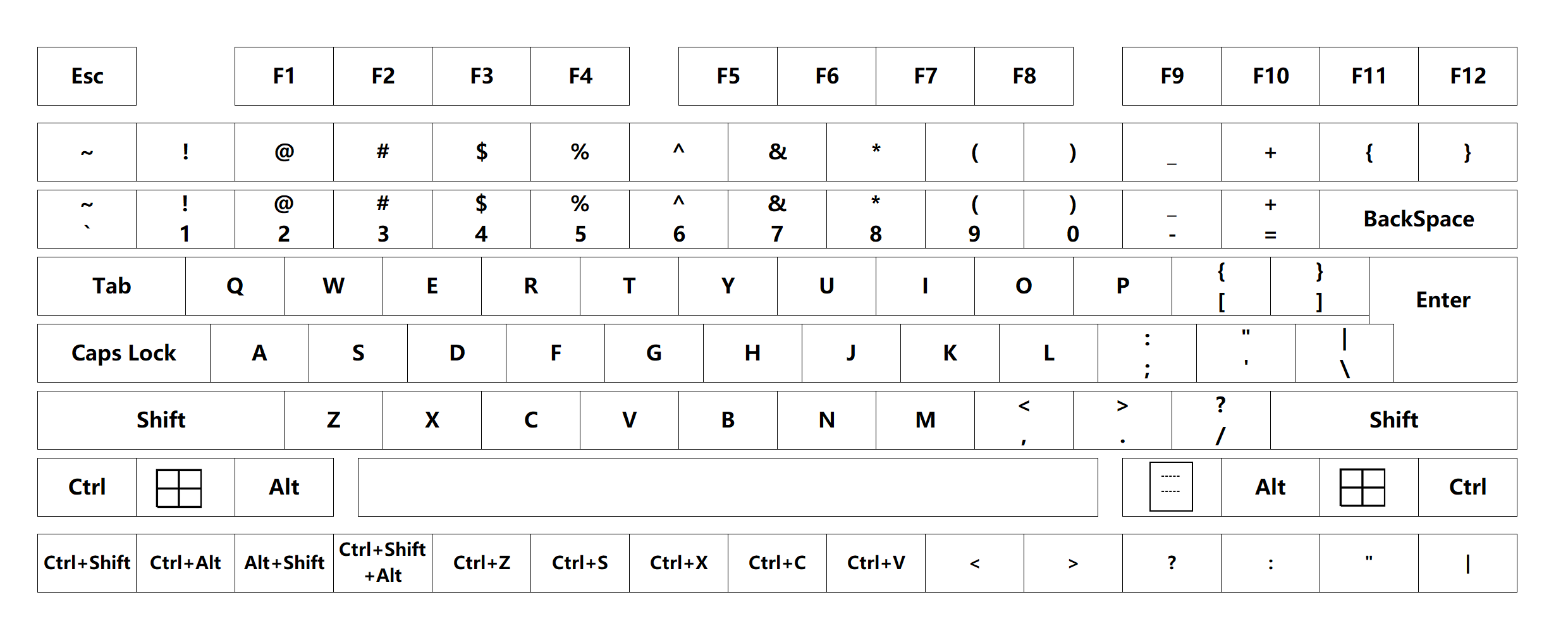
Regular people need this, too; who doesn’t need Ctrl+c and Ctrl+v after all in this world?

普通使用者也需要啊，毕竟谁能离得了Ctrl+c 和 Ctrl+v呢？

**4**

the complete design is just as below:

完整的设计如下图所示：



And the rendering is as this:

下面是渲染图：



If you don’t agree with me, no problem; as you can see, this design doesn’t change the normal old layout of the keyboard, you can just use it by your old habits.

如果你不认可这个设计也没关系，你可以看一下设计图，这个设计并没有改变太多原有的键盘布局，你仍然可以按照你原来的习惯来使用这个键盘。

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