

How did we \_\_\_\_\_ making this stone \_\_\_\_\_ to making this device? One is an Acheulean hand ax made by Homo Erectus about \_\_\_\_\_ years ago. \_\_\_\_\_ is, of course, a smartphone that \_\_\_\_\_ 2010. They are \_\_\_\_\_ designed to \_\_\_\_\_ the human hand. But \_\_\_\_\_ many differences \_\_\_\_\_ human society \_\_\_\_\_ progress. \_\_\_\_\_, hand axes \_\_\_\_\_ for about a million years, \_\_\_\_\_ smartphones are likely to be \_\_\_\_\_ a \_\_\_\_\_. It shows \_\_\_\_\_ life and society are changing \_\_\_\_\_. Our technology \_\_\_\_\_ developed, \_\_\_\_\_ of \_\_\_\_\_ has also been increasing.

How did we get from making this stone tool to making this device? One is an Acheulean hand ax made by Homo Erectus about one and a half million years ago. The other is, of course, a smartphone that came along around 2010. They are both designed to fit the human hand. But there are many differences that tell us a lot about human society and its progress. First of all, hand axes had been used for about a million years, while smartphones are likely to be obsolete within a several decades. It shows that our life and society are changing far faster than those of our ancestors. Our technology has dramatically developed, but the pace of progress has also been increasing.

device	機器	likely	ありそうな、起こりそうな
Acheulean	アシュール文化の	obsolete	廃れた、時代遅れの
ax	斧	decade	10年間
Homo Erectus	ホモ・エレクトス	ancestor	先祖
come along	やってくる、登場する	dramatically	劇的に
society	社会	develop	発展する
progress	進歩		

Another interesting difference between the stone \_\_\_\_\_ and the smartphone is \_\_\_\_\_. The hand ax is made only \_\_\_\_\_ one \_\_\_\_\_, stone. But the smartphone is made \_\_\_\_\_ different \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, and \_\_\_\_\_. Moreover, the smartphone is a \_\_\_\_\_ of many ideas; how to \_\_\_\_\_; how to get \_\_\_\_\_ plastic; how to write a program, and so on. \_\_\_\_\_, \_\_\_\_\_ you want to \_\_\_\_\_ the ax, you only have to know \_\_\_\_\_ to \_\_\_\_\_ stones and how to \_\_\_\_\_ axes. In other words, the hand ax is made \_\_\_\_\_ ideas, \_\_\_\_\_ the phone is made from thousands of ideas. Progress is the \_\_\_\_\_ of different ideas and information.

Another interesting difference between the stone tool and the smartphone is their materials. The hand ax is made only from one kind of material, stone. But the smartphone is made from a lot of different materials, such as silicon, plastic, and aluminum. Moreover, the smartphone is a combination of many ideas; how to build circuit boards; how to get oil for plastic; how to write a program, and so on. By contrast, if you want to build the ax, you only have to know where to collect stones and how to shape them into axes. In other words, the hand ax is made from only a few ideas, while the phone is made from thousands of ideas. Progress is the result of a combination of different ideas and information.

material	材料	circuit board	回路基板
silicon	ケイ素	oil	石油
aluminum	アルミニウム	collect	集める
moreover	その上、さらに	shape	形作る, 成形する
combination	組み合わせ	result	結果

The hand ax was \_\_\_\_\_ made by one person, and \_\_\_\_\_ he or she knew how to \_\_\_\_\_. By contrast, nobody knows how to make a smartphone. \_\_\_\_\_ the \_\_\_\_\_ of the smartphone company only knows how to \_\_\_\_\_ a large company. He cannot \_\_\_\_\_ a \_\_\_\_\_, \_\_\_\_\_ for plastic, and write millions of \_\_\_\_\_ the operating system by himself. \_\_\_\_\_ so much knowledge necessary to make smartphones \_\_\_\_\_ one brain cannot \_\_\_\_\_ information. \_\_\_\_\_, we \_\_\_\_\_ ideas and techniques \_\_\_\_\_. \_\_\_\_\_ millions \_\_\_\_\_ making a smartphone, \_\_\_\_\_ include people who \_\_\_\_\_ machines to \_\_\_\_\_ for plastic. What a single person can do is \_\_\_\_\_. However, by working together and sharing ideas, we \_\_\_\_\_ other's lives \_\_\_\_\_.

The hand ax was probably made by one person, and obviously he or she knew how to make it. By contrast, nobody knows how to make a smartphone. Perhaps the president of the smartphone company only knows how to run a large company. He cannot build a circuit board, drill for oil for plastic, and write millions of lines of source code of the operating system by himself. There is so much knowledge necessary to make smartphones that any one brain cannot keep all this information. Instead, we bring our ideas and techniques together. Probably millions are involved in making a smartphone, if you are to include people who built machines to drill for oil for plastic. What a single person can do is limited. However, by working together and sharing ideas, we make each other's lives better.

probably	おそらく	operating system	OS
obviously	明白に、言うまでもなく	necessary	必要な
by contrast	対照的に	instead	～の代わりに
perhaps	たぶん	technique	技術
president	社長	involve	巻き込む、伴う
run	経営する	include	含む
drill	穴を掘る	limit	制限する
source code	ソースコード		