

## Save your hundred of key strokes with Vim 8.0 feature

A few months ago, Vim 8.0 is released and it was a major release in last ten years. It is pretty significant. There are many new features are added in the release, one of them is called **timer** which is like a stopwatch in your phone.

Technically speaking, **timer** is similar to event handler in *C#* or event listener in Java, except that it is much easier to use.

- A function is subscribed in event queue.
- The function is triggered by a specific event.

### Another Analogy

- You **join** the line to wait for ordering your Caramel Macchiato in Starbucks
- You **order** your Caramel Macchiato in a specific time.

There are two important functions for timer.

- `timer.start()` which starts the timer and call a function in specific time
- `timer.stop()` which stops the timer immediately

**Example 1** *If you want to write a function to save your current buffer in every 2 seconds, you can do it in one line with Vim script.*

```
func! SaveFile(timer)
  silent! :w!
endfunc
```

**timer** A variable is initialized by `timer.start()`

**silent** Execute silently. Normal message will not be given or added to the message history. when `!` is added, error message will also be skipped.

The **SaveFile** function is surprisingly simple but extremely useful because you don't need to constantly press a key to save your file when you edit a file.

```
let timer = timer_start(2000, 'SaveFile',{ 'repeat':-1})
func! SaveFile(timer)
  silent! :w!
endfunc
```

enjoy your Vim 8 feature!

# 1 There is, are

If you want to speak about the existence of a person or a thing, you should use **there is/are**

There is man who know you

there is many pupils in the school

is there any exit to the street

there are three boys in the family

there is one table and four chair in this room

there is one table and four chair in that room

- Simple past

there was a car here, but it went away

there were many pedestrians in the street at the time

- Simple future

There will be a scandal if people know that

- Future "Going to"

is there going to be strike tomorrow

there is going to be strike tomorrow

- Present perfect

There has been a lots of victims in the accident

- Modal Auxiliaries:Can/Can't,physical or intellectual ability/inability/impossibility

There can only be one explanation

There can not be more people in this small room

There can not be more people in this small room

- May : Eventually/permission

There may be snow tomorrow

There may not be a mistake here

- Must : obligation, near-certitude / interdiction

Must there be two policemen with him?

There must not be any kid here

- Should : advice / suggestion  
 There should be traffic lights in the crossroads  
 There should not be as many fans near the singer
- **When there is no matches return a empty list**
- **When there is no matches, we return a empty list**
- **When there is no matches, an empty is returned**
- despite  
 Haskell is still not a popular programming language despite the language has developed since 1990s
- I have failed the Microsoft interview despite I have begun to prepare since last month.
- In despite of + ing, despite + ing  
 He is very fast in despite of being terribly overweight  
 They arrive late despite leaving in plenty of time
- Google is *pushing* to become a platform **through which** companies can broadcast and communicate one-to-one with customers
- When you are approaching the gate, it will take a photo of you and compare to the database.  
*above sentence is not very clear*
- When you are approaching the gate, the system will take a photo of you and compares to the database.  
**a better sentence**
- including, excluding  
 The bracket means the end of range is inclusive. The parenthesis means the end of range is exclusive.  
 I have a number of options to improve my English skill including reading and writing an article daily.  
 select text between two dollar signs but excluding the two dollar signs.
- Our objective for today is to show you how to select some text or highlight it, then substitute with pattern

```
\(
A= \begin{bmatrix}
1 & 2 & 3\\
4 & 5 & 6\\
7 & 8 & 9
\end{bmatrix}
\)
```

```
text => \color{red}{<pre>nice\color{red}{</pre>}}
nicetext => \color{red}{<pre>nicenice\color{red}{</pre>}}
```

```
& \% $ \# - \{ \} \sim \backslash
```