## Golang Naming Conventions Cheat Sheet by [deleted] via cheatography.com/70653/cs/17920/

Why naming is important?	Idiomatic
Critical for Readability = Maintainability	<pre>func Read(b *Buffer, p []byte) (n int, err error) {</pre>
The naming is important because it is very critical for readability and	if b.empty() {
if you can't read the code, you can't properly maintain it.	b.Reset()
Imagine a book that you don't understand, and someone comes to you and asks you to fix the typos in it.	<pre>} n = copy(p, b.buf[b.off:]) b.off += n</pre>
Can you really do it, without understanding it?	return n, nil
There are only two hard things in Computer Science: cache invalidation and naming things. - Phil Karlton	This code is very concise and idiomatic and it's easy to understand and maintain.
New Idlemetic	References
Non-Idiomatic	Abbreviation in Go
<pre>func Read(buffer *Buffer, inBuffer []byte) (size</pre>	golang bytes standard library
int, err error) {	
<pre>if buffer.empty() {</pre>	Inanc Gumus - Learn Go Programming
buffer.Reset()	Use the first few letters of the words
}	
size = copy(	var <b>fv</b> string // <b>f</b> lag <b>v</b> alue
<pre>inBuffer, buffer.buffer[buffer.offset:])</pre>	Use fewer letters in smaller scopes
buffer.offset += size	
return size, nil	var bytesRead int // number of bytes read X
}	var <b>n</b> int // <b>n</b> umber of bytes read 🗸
This code is unnecessarily verbose. Everything has been declared in	Use the complete words in larger scopes
English words, which generally should be avoided. From the readab-	package <b>file</b>
ility and maintainability perspective, this code is not good.	var <b>file</b> Closed bool
	Imaging that this variable is dealared in the peakage black of the
	Imagine that this variable is declared in the package block of the – file package.
	IIIe packaye.
	It's a package level variable and therefore it's in a larger scope. Don't use abbreviations there and don't mix caps in the name. file starts with a lowercase letter.
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### Use mixedCaps like this

type  ${\tt p} {\tt layer} {\tt S} {\tt core}$  struct

### Use all caps for acronyms

var localApi string ★ var localAPI string ✔

### Do not stutter

player.PlayerScore \*
player.Score \*

Do not use under\_scores oR LIKE\_THIS

const MAX\_TIME int ★
const MaxTime int ↓
const N int ↓



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### **Abbreviation - Rules**

#### Sound/Spelling

Abbreviations should be pronounceable.

Abbreviations should have at least one vowel.

Abbreviations should not split up **plosive/liquid** combinations but as **plosive/plosive**, for example, the **ct** in **dictionary** or **pt** in **caption**.

Abbreviations should not have more than **three consonants** in a row and should usually **end in a consonant**, unless the vowel is needed for discrimination, for example, **alg** and **algo**.

All of the letters in the abbreviation should be present in the long form and in the same order, and need not appear in sequence in the long form, for example, **recv** and **receive**.

#### **Exceptions/Limitations**

There are a few exceptions to the above rules for common, wellestablished forms.

**ct** and **pt** can be used for **ction** and **ption** if the abbreviation would be too short otherwise, for example, **act** and **opt**.

There are also other types of prefixing, for example, the three-letter prefixes used to distinguish field names in the same database table.

Examples would include **cusID** for **customer ID** and **ordID** for **order ID**.

Those prefixes don't need to follow the same rules.



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Abbreviation - Rules (cont)

#### Length/Meaning and Interpretation

An abbreviation should be less than or equal to half the length of the original form.

Abbreviations should be at least three letters long.

Abbreviations should **not be whole words** that mean something else.

Abbreviations should not just consist of the prefix of a word, for example, **sym** for **symbol** or **syl** for **syllable**.

Abbreviations **shouldn't be ambiguous**. However, if the names are different that **no confusion** can result, they are **OK**.

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Abbreviation		
var <b>a</b> int	// <b>a</b> rray	
var <b>arg</b> []string	// argument	
var <b>b</b> []byte	// <b>b</b> uffer	
var <b>b</b> byte	// byte	
var <b>bs</b> bytes	// bytes	
var <b>buf</b> []byte	// buffer	
var <b>c</b> int	// capacity	
var <b>c</b> int	// character	
var <b>dst</b> int	// destination	
var <b>err</b> error	// error value	
var $\mathbf{fv}$ string	// flag value	
var <b>i</b> int	// index	
var <b>l</b> int	// length	
var <b>m</b> int	// another nu <b>m</b> ber	
var <b>msg</b> string	// message	
var <b>n</b> int	// number or number of	
var <b>num</b> int	// number	
var <b>off</b> int	// offset	
var <b>op</b> int	// <b>op</b> eration	
var <b>parsed</b> bool	// parsed ok?	
var <b>pkg</b> string	// package	
var <b>pos</b> int	// <b>pos</b> ition	
var <b>r</b> rune	// <b>r</b> une	
var <b>r</b> io.Reader	// reader	
var <b>s</b> string	// string	
var <b>seen</b> bool	// has <b>seen</b> ?	
var <b>sep</b> string	// <b>sep</b> arator	

Abbreviation (cont)	
var <b>src</b> int	// source
var <b>str</b> string	// <b>str</b> ing
var $\mathbf{v}$ string	// <b>v</b> alue
var <b>val</b> string	// <b>val</b> ue
var <b>w</b> io.Writer	// writer
the list goes on and on	

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