# **Naming rules of C language**

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# **Revision History**

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| **Revision** | **Date** | **History** |
| 0.5 | 11 NOV 2022 | - First version is released |
| 0.6 | 12 DEC 2022 | - Type and other explanations are added |

## **Editor**

* Source Insight 4.0 or later

## **Indentation**

* Tab character is used, and tab length is 4 space characters

## **General rules**

1. Prefix is “td” in general, and meaning “ToDoc”
2. From lager to smaller meanings are following to prefix
3. Rules in here are applied to application only, and not to built-in
4. Example, td\_bt\_pairing\_init means procedure to initialize Bluetooth paring module

## **Files**

1. Lower case is used only.
2. Word connector of name is ‘\_’
3. Built-in library files are not applied to
4. Example, td\_bt\_pairing.c is a file to handle Bluetooth pairing procedures

## **Type Definition**

1. Lower case is used only.
2. This rule is applied to type definitions using typedef, struct or enum

## **Macro or Alias Definitions Using #define**

1. Upper case is used only.
2. Word connector of name is ‘\_’
3. Example, TD\_BT\_PAIR\_IS\_INIT

## **Variables**

1. Local
   * Lower case is used only, and prefix “td” is not used
   * Word connector of name is ‘\_’
   * Example, bt\_pair\_is\_init
2. Static – Scope in code blocks

* Lower case is used only, and prefix “td” is not used
* Name stars from “st”, meaning “static”
* Word connector of name is ‘\_’
* Example, st\_bt\_pair\_is\_init

1. Static – Scope in files

* Do not use this type variables, but use global variables instead

1. Global

* First character is lower case ‘g’, meaning “global”
* Word connector of name is ‘\_’ or upper case character, and next to connector is lower case
* Example, gTdBtPair\_isInit means global flag variable to check if Bluetooth pairing module is initialized or not.

1. Extern

* First character is lower case “ex”, meaning “extern”
* Word connector of name is ‘\_’ or upper case character, and next to connector is lower case
* Example, exTdBtPair\_isInit means global flag variable to check if Bluetooth pairing module is initialized or not.

## **Functions**

1. Parameter

* The rule is the same as local variable

1. Static or In-line

* Lower case is used only.
* Word connector of name is ‘\_’
* Prefix ‘td’ is following to “st” means “static”
* Example, st\_td\_bt\_pair\_init(void)

1. Others
   * + First character is lower case
     + Word connector of name is ‘\_’ or upper case character, and next to connector is lower case
     + Example, tdBtPair\_init(void)