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**Find the difference Pascal vs Camel vs Snake Case**

PascalCase, camelCase, and snake\_case are different naming conventions used in programming to make code more readable and maintainable. Here’s an explanation of each:

### PascalCase

* **Definition**: In PascalCase, the first letter of each word is capitalized, and there are no underscores or spaces between words.
* **Usage**: Commonly used for naming classes, types, and namespaces.
* **Example**:

python

Copy code

class MyClassName:

pass

### camelCase

* **Definition**: In camelCase, the first letter of the first word is lowercase, and the first letter of each subsequent word is capitalized. There are no underscores or spaces between words.
* **Usage**: Often used for naming variables, functions, and object properties.
* **Example**:

javascript

Copy code

let myVariableName = "value";

function myFunctionName() {

// function body

}

### snake\_case

* **Definition**: In snake\_case, all letters are lowercase, and words are separated by underscores.
* **Usage**: Frequently used for naming variables and functions, especially in Python.
* **Example**:

python

Copy code

my\_variable\_name = "value"

def my\_function\_name():

pass

### Summary of Differences

1. **PascalCase**:
   * Capitalizes the first letter of each word.
   * Commonly used for class names and types.
   * Example: MyClassName
2. **camelCase**:
   * Capitalizes the first letter of each word except the first one.
   * Typically used for variable names, function names, and object properties.
   * Example: myVariableName
3. **snake\_case**:
   * Uses all lowercase letters and separates words with underscores.
   * Commonly used for variable names and function names, especially in Python.
   * Example: my\_variable\_name

### Choosing the Right Case

* **PascalCase**: Use for class names, types, and namespaces to distinguish them from variables and functions.
* **camelCase**: Use for variables, function names, and object properties to follow common practice in many languages like JavaScript, Java, and C#.
* **snake\_case**: Use for variables and function names, especially in languages like Python and C.

By adhering to these conventions, you enhance the readability and maintainability of your code, making it easier for others (and yourself) to understand and work with your codebase.