# **Coding Standards**

# **Naming**

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Section		
Town01	<ul><li>Noun</li><li>Contains variant number</li><li>Use Pascal Case</li></ul>	
Scripts		
PlayerMovementComponent	Use Pascal Case	
Classes		
<pre>public class Weapon : MonoBehaviour {}</pre>	<ul><li>□ Use Pascal Case</li><li>□ Class Names are Nouns</li></ul>	
Properties		
<pre>public class Weapon : MonoBehaviour {     public int Damage { get; set; } }</pre>	<ul><li>Use Pascal Case</li><li>Nouns or Adjectives</li></ul>	
Fields		
<pre>public class Weapon : MonoBehaviour {     private int _health; }</pre>	<ul><li>camelCase</li><li>_underscore</li><li>Nouns or Adjectives</li></ul>	
Functions/Methods		
<pre>public class Weapon : MonoBehaviour {     public int FireWeapon() {} }</pre>	<ul><li>Use Pascal Case</li><li>Verbs</li></ul>	

## **Function/Method Parameters**

public class Player : MonoBehaviour {	□ camelCase
<pre>public int TakeDamage(int amount)</pre>	Nouns or Adjectives
{}	,
}	

#### Constants

#### **Events**

```
public class Player : MonoBehaviour {
  public event Action<int> OnTookHit;
}
Pascal Case
  'On Something Happened'
```

#### Enums

```
public enum EnumName
{
    ENUM_VALUE = 0,
    ...
}
PascalCase for enum name

SCREAMING_CAPS for enum
value
```

## **Branches Structure**

- Master kept clean and in a working condition, basically our polished stuff go here
  - Dev our dump, here we will merge our individual branches and fix issues and decide what goes into Master
    - **Personal branches** everyone works on a separate branch on their tasks without interfering with the work of others.

Every time you start work your first job should be to merge the development branch into your own so you get new changes. When finishing work you should commit to the development branchy so others can see your changes and not use an outdated version of the project.

When merging your branch, first merge the development branch and fix any issues that arise there. When there are none, merge your branch into Dev

## **Abbreviations**

- Avoid abbreviations except in cases where it's a domain specific common term.
  - Example: Prefer playerWeapon over pWeap
  - Exception Example: Prefer **GPU** over *GraphicalProcessingUnit*
- Avoid single character names except as loop iterators with 'i'
  - If multiple iterators are needed, give them proper names
  - o Iterate with ++i, instead of i++

### **Documentation**

- Comments on core mechanics/improvised or unique algorithms. Brief definition of functions/variables.
  - o XML style comments for the functions including their params
  - CnC adapted style of documentation for the files style similar to what CnC used in the 90's for documentation. Example <a href="https://example.cpp/">.epp/</a>.

## Some good practises

- Prefer handling logic using Events over Update
- Make everything private (unless you really need it public to access it in another script), if you want to access it in the Editor use [SerializeField] in front of the object/variable

Serialisable fields show up in the inspector. By default public fields are serialisable. As are any fields you mark with SerialiseField.

- **public** Show up in inspector and accessible by other scripts
- **[SerialiseField] private** Show up in inspector, not accessible by other scripts
- **[HideInInspector] public** Doesn't show in inspector, accessible by other scripts
- **private** Doesn't show in inspector, not accessible by other scripts