

Block & Thread index

· 每個 thread 都做相同動作???

```
2 ∨ __global__ void gpu_func(int add, int *arr) {
      arr[0] += add;
```

gpu_func<<<10, 100>>>(87, gpu_arr);

```
    blockIdx.x threadIdx.x blockDim.x

  2 v __global__ void gpu_func(int add, int *arr) {
          int bID = blockIdx.x;
          int tID = threadId.x;
  5
          int blockSize = blockDim.x;
  6
          arr[bID * blockSize + tID] += add;
```

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blockIdx.x threadIdx.x blockDim.x

```
2 ~ _global__ void gpu_func(int add, int *arr) {
3     int bID = blockIdx.x;
4     int tID = threadId.x;
5     int blockSize = blockDim.x;
6     arr[bID * blockSize + tID] += add;
7  }
```



Dim3

- thread/block ID 只有 [0, n)
- func<<<1, dim3(10,10)>>>

```
__global__ void gpu_func(...) {
   int x = threadId.x;
   int y = threadId.y;
}
```

