
Subject: Best way to deal with checking array indices are within bounds

Posted by [Robin Wilson](#) on Tue, 15 Mar 2011 15:23:33 GMT

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Hi all,

I was wondering what people generally do about checking that array indices are within bounds when working with images - as I assume it is a problem many people have. For example, in the following code:

```
x_index = 49  
y_index = 42
```

```
x_index += 3  
x_index += 3
```

Trying to index a 50x50 array with x_index and y_index will give an error because the x_index is outside the bounds. I frequently run into this issue as I do a lot of image processing.

How do people generally deal with it? I often end up using a lot of IF statements (like below), which gets very messy and is error-prone - does anyone have a better way to do this?

```
IF x_index GT 50 THEN x_index = 50  
IF x_index LT 0 THEN x_index = 0  
...
```

Any views/ideas?

Cheers,

Robin

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