

# Programming 1

## Independent Projects

### Getting Started

Before you begin it's important to note that I've chosen these topics because they are fun, and because we have the tools on your computers to be able to work with these applications. On the computers in computer lab 133 you will find:

Visual Basic:

- Visual Basic 6.0

Java:

- Eclipse (A multipurpose compiler, great for Java)

Web Development (HTML, CSS, PHP)

- Notepad
- Macromedia Dreamweaver

Flash

- Macromedia Flash

### Project Submission

Before you begin serious work on this independent project, I want to hear what your goals are. That is, what do you hope to have created by the end of the year? Please answer the following questions:

1. What application will you be using for your project?
2. What is your project going to be? (Keep in mind, your answer can be as simple as "a web page", and as complex as "a slime game". I don't care if you finish it by the end of the year, so long as you try.)
3. What do you need from me to begin?

If you need a web site that supports PHP, you can check out the following site. It contains a list of other sites that should be free, and they all should support PHP:

- <http://www.thefreecountry.com/webhosting/freewithphp.shtml>

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### Topics & Resources

- **Visual Basic:** Visual Basic 6.0 is a programming language, used a lot for application programming with MS Access. I suggest the following resources:
  - <http://www.hitmill.com/programming/vb/beginner.html>
  - <http://juicystudio.com/tutorial/vb/>
  - <http://www.google.com/search?hl=en&lr=&q=visual+basic+6.0+tutorials>
- **Java:** Java is known as an Object Oriented programming language. Syntactically, it looks a lot like C++. I suggest the following resources:
  - <http://www.tutorialized.com/tutorial/Eclipse-Tutorial/6450>
  - [http://www.3plus4software.de/eclipse/firstjavaproject\\_en.html](http://www.3plus4software.de/eclipse/firstjavaproject_en.html)
- **HTML / CSS / PHP Programming:**
  - HTML - HTML is an acronym for Hyper Text Markup Language. It is the language of web pages. I suggest the following resources:
    - <http://www.w3schools.com/html/default.asp>
    - <http://www.tizag.com/htmlT/>
    - <http://www.htmlgoodies.com/primers/html/article.php/3478131>
    - <http://www.google.com/search?hl=en&lr=&q=html+tutorials>
  - CSS - CSS is an acronym for Cascading Style Sheets. If you want to add styling (colors, font style changes, etc) to your web pages, this is how you should do it. I suggest the following resources:
    - <http://www.w3schools.com/css/default.asp>
    - <http://www.tizag.com/cssT/>
    - <http://www.htmlgoodies.com/beyond/css/index.php>
    - [http://www.smartwebby.com/web\\_site\\_design/css\\_styles\\_tutorial.asp](http://www.smartwebby.com/web_site_design/css_styles_tutorial.asp)
    - <http://www.google.com/search?hl=en&lr=&q=css+tutorials>
  - PHP Programming - PHP is a web scripting / programming language. It is used to make web pages do a whole lot of cool things. It pretty much looks just like C++. Here's an example of some PHP code:

```
if($error)
{
    if(!$validRole)
        echo "Invalid Role";
    else
        echo "";
} elseif(!$error && $validRole)
    echo "No Error and valid Role";
else {
```

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```
$variable = 10;  
echo $variable * 20;  
echo "Hello, " . " what's " . " up ";  
}
```

```
//Here's an example of a comment  
#Here's an example of a comment  
/*In the above example, echo acts just like cout, and the  
period is used to concatenate words and/or variables  
together for output*/
```

I recommend the following PHP resources

- <http://us3.php.net/tut.php>
  - <http://www.tizag.com/phpT/>
  - <http://www.beginnersphp.co.uk/showarticles.php>
  - <http://www.google.com/search?hl=en&lr=&q=php+tutorials>
- **Flash:** Flash is a program which is primarily used to make things animate (move). In newer version of Flash there is a programming environment (known as Flash ActionScripting) which allows you to do all of your animations with program code. It's very powerful. I recommend the following resources:
- <http://www.macromedia.com/devnet/mx/flash/>
  - [http://www.flashdeveloper.nl/g\\_flash\\_game.html](http://www.flashdeveloper.nl/g_flash_game.html)
  - <http://www.flashkit.com/tutorials/>
  - <http://www.google.com/search?hl=en&lr=&q=flash+mx2004+tutorials>