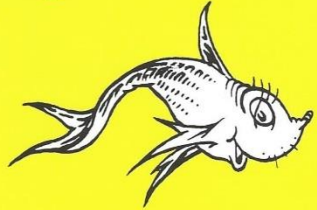
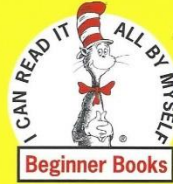


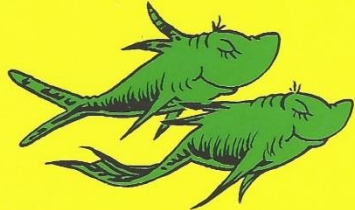
Void Methods

The basics....

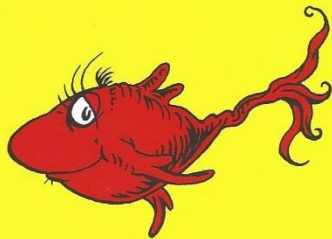
By **Dr. Seuss**



One fish



two fish



red fish



blue fish

Suppose that
you wanted
to remake
this book
cover.

But I don't
want to do
that. It seems
pointless.

Can't you
just play
along? It's
Dr. Seuss.

```
OneFishTwoFish.java* - Ready to Program
File Edit Search Mark Run Help
Run Pause Open Save Indent Print Cut Copy Paste

public class OneFishTwoFish
{
    public static void main (String args[])
    {
        new OneFishTwoFish ();

        public OneFishTwoFish ()
        {
            System.out.println ("One Fish...\n");
            System.out.println ("      _ _ _ _ _");
            System.out.println ("     / \ \ \ \ \ \ \ \ \ \");
            System.out.println ("    /  \ \ \ \ \ \ \ \ \ \");
            System.out.println ("   /    \ \ \ \ \ \ \ \ \ \");
            System.out.println ("  /      \ \ \ \ \ \ \ \ \ \");
            System.out.println (" \nTwo Fish...\n");
            System.out.println ("      _ _ _ _ _");
            System.out.println ("     / \ \ \ \ \ \ \ \ \ \");
            System.out.println ("    /  \ \ \ \ \ \ \ \ \ \");
            System.out.println ("   /    \ \ \ \ \ \ \ \ \ \");
            System.out.println ("  /      \ \ \ \ \ \ \ \ \ \");
            System.out.println (" \nRed Fish...\n");
            System.out.println ("      _ _ _ _ _");
            System.out.println ("     / \ \ \ \ \ \ \ \ \ \");
            System.out.println ("    /  \ \ \ \ \ \ \ \ \ \");
            System.out.println ("   /    \ \ \ \ \ \ \ \ \ \");
            System.out.println ("  /      \ \ \ \ \ \ \ \ \ \");
            System.out.println (" \nBlue Fish!\n");
            System.out.println ("      _ _ _ _ _");
            System.out.println ("     / \ \ \ \ \ \ \ \ \ \");
            System.out.println ("    /  \ \ \ \ \ \ \ \ \ \");
            System.out.println ("   /    \ \ \ \ \ \ \ \ \ \");
            System.out.println ("  /      \ \ \ \ \ \ \ \ \ \");
            System.out.println (" \n");
        }
    }
}

62 Columns by 35 Rows      Line 7 of 35      Col 1
```

```
OneFishTwoFish - Finis...
Pause Close (^W) Print (^P) Save (^S)

One Fish...
      _ _ _ _ _
     / \ \ \ \ \ \ \ \ \ \
    /  \ \ \ \ \ \ \ \ \ \
   /    \ \ \ \ \ \ \ \ \ \
  /      \ \ \ \ \ \ \ \ \ \
 \nTwo Fish...
      _ _ _ _ _
     / \ \ \ \ \ \ \ \ \ \
    /  \ \ \ \ \ \ \ \ \ \
   /    \ \ \ \ \ \ \ \ \ \
  /      \ \ \ \ \ \ \ \ \ \
 \nRed Fish...
      _ _ _ _ _
     / \ \ \ \ \ \ \ \ \ \
    /  \ \ \ \ \ \ \ \ \ \
   /    \ \ \ \ \ \ \ \ \ \
  /      \ \ \ \ \ \ \ \ \ \
 \nBlue Fish...
      _ _ _ _ _
     / \ \ \ \ \ \ \ \ \ \
    /  \ \ \ \ \ \ \ \ \ \
   /    \ \ \ \ \ \ \ \ \ \
  /      \ \ \ \ \ \ \ \ \ \
 \n
```


Method Name

```
public void leftFish ()
```

```
{
```

```
    System.out.println ("      _/  _/  " );  
    System.out.println ("    . - ' - - - . / _ " );  
    System.out.println (" /o  \\\生\  \ " - . ' / " );  
    System.out.println (" \\\  //    . - ' . _ \\\ " );  
    System.out.println (" ` \ " \\\ ) -- \ " ' " );
```

```
}
```

Start and
End the
method

```

public void rightFish ()
{
    System.out.println ("      ,---, _ " );
    System.out.println ("      \\ .----'-' " );
    System.out.println (" \\ \\ ' .-\\ " // o\\ \\ " );
    System.out.println (" /_ .-' .- \\ \\ \\ / " );
    System.out.println ("      \\ " -- (/\\ " " );
}

public void leftFish ()
{
    System.out.println ("      _ ,---, " );
    System.out.println ("      .-'----./_ " );
    System.out.println (" /o \\ \\ \\ \\ \\ " \\ " .-' / " );
    System.out.println (" \\ \\ //      .-' .- \\ \\ " );
    System.out.println ("      \\ " \\ \\ ) -- \\ " " );
}

```

```
public OneFishTwoFish ()
{
    System.out.println ("One Fish...\n");
    rightFish ();
    System.out.println ("\nTwo Fish...\n");
    leftFish ();
    System.out.println ("\nRed Fish...\n");
    rightFish ();
    System.out.println ("\nBlue Fish!\n");
    leftFish ();
}
```

```
OneFishTwoFish.java* - Ready to Program
File Edit Search Mark Run Help
Run Pause Open Save Indent Print Cut Copy Paste

public class OneFishTwoFish
{
    public static void main (String args[])
    {
        new OneFishTwoFish ();
    }

    public OneFishTwoFish ()
    {
        System.out.println ("One Fish...\n");
        System.out.println ("      /---_ ");
        System.out.println ("    \\.---'-. ");
        System.out.println ("  \\.-'-' // o\\ ");
        System.out.println (" /_.'-'  \\\\ / ");
        System.out.println (" \\-'-'  \\\"--(\\\" ");
        System.out.println ("\nTwo Fish...\n");
        System.out.println ("      /---_ ");
        System.out.println ("    \\.---/ ");
        System.out.println ("  /o \\\\ \\\\  \\\"-. / ");
        System.out.println (" \\. //      \\.-' \\. ");
        System.out.println ("  \\\"\\)--\\\" ");
        System.out.println ("\nRed Fish...\n");
        System.out.println ("      /---_ ");
        System.out.println ("    \\.---'-. ");
        System.out.println ("  \\.-'-' // o\\ ");
        System.out.println (" /_.'-'  \\\\ / ");
        System.out.println (" \\-'-'  \\\"--(\\\" ");
        System.out.println ("\nBlue Fish!\n");
        System.out.println ("      /---_ ");
        System.out.println ("    \\.---/ ");
        System.out.println ("  /o \\\\ \\\\  \\\"-. / ");
        System.out.println (" \\. //      \\.-' \\. ");
        System.out.println ("  \\\"\\)--\\\" ");
    }
}

62 Columns by 35 Rows      Line 7 of 35      Col 1
```

```
OneFishTwoFish.java* - Ready to Program
File Edit Search Mark Run Help
Run Pause Open Save Indent Print Cut Copy Paste

public class OneFishTwoFish
{
    public static void main (String args[])
    {
        new OneFishTwoFish ();
    }

    public OneFishTwoFish ()
    {
        System.out.println ("One Fish...\n");
        rightFish ();
        System.out.println ("\nTwo Fish...\n");
        leftFish ();
        System.out.println ("\nRed Fish...\n");
        rightFish ();
        System.out.println ("\nBlue Fish!\n");
        leftFish ();
    }

    public void rightFish ()
    {
        System.out.println ("      /---_ ");
        System.out.println ("    \\.---'-. ");
        System.out.println ("  \\.-'-' // o\\ ");
        System.out.println (" /_.'-'  \\\\ / ");
        System.out.println (" \\-'-'  \\\"--(\\\" ");
    }

    public void leftFish ()
    {
        System.out.println ("      /---_ ");
        System.out.println ("    \\.---/ ");
        System.out.println ("  /o \\\\ \\\\  \\\"-. / ");
        System.out.println (" \\. //      \\.-' \\. ");
        System.out.println ("  \\\"\\)--\\\" ");
    }
}

62 Columns by 36 Rows      Line 7 of 37      Col 1
```


Method

- aka: a subprogram, a function, a procedure.
- A set of code which is separate from the rest of the program.
- It has a name and can be called (invoked) at any point in a program simply by using the method's name.
- It can receive information when called (or not) and return a value (or not).
- It has a method signature (The first line: `public void name ()`) which defines the major functions of the method.
- It's code is enclosed in { }.

When are they used in the PDLC?

- In the design phase, the code is divided into methods. Method signatures are also written then.
- In the code phase, each method is assigned to a programmer.
- Methods allow hundreds of programmers to work together easily. They break a big program into little pieces which can call each other.