

Thomas Owens
Front End Development



Control Structures / Design for Responsive Web and High Resolution Devices

SESSION TYPE : LESSON
WBD4300,

Control Structures

-Decision making (if Switch)

Design for Responsive Web and High resolution Devices

-Progressive enhancement or graceful degradation
-Responsive Design and Responsive Content

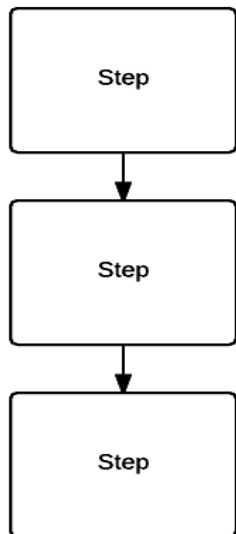
Self Directed: Practice of Decision Making using if and switch statements

Control Structures

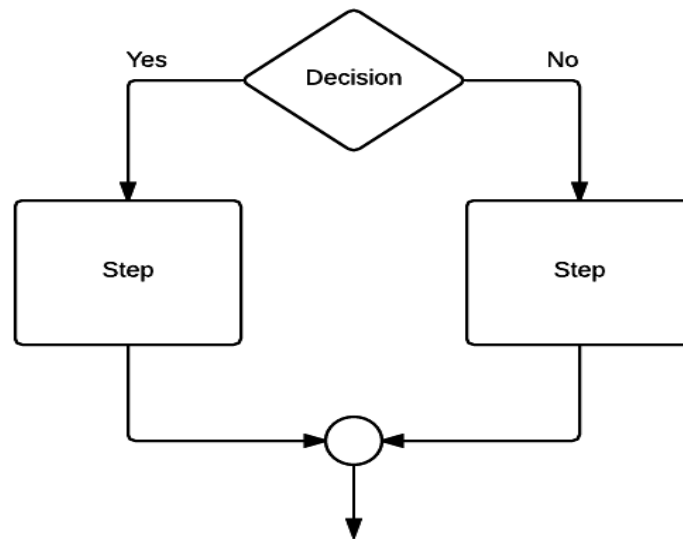
Control Structures

A control structure is a block of programming that analyses variables and chooses a direction in which to go based on given parameters. The term flow control details the direction the program takes (which way program control "flows").

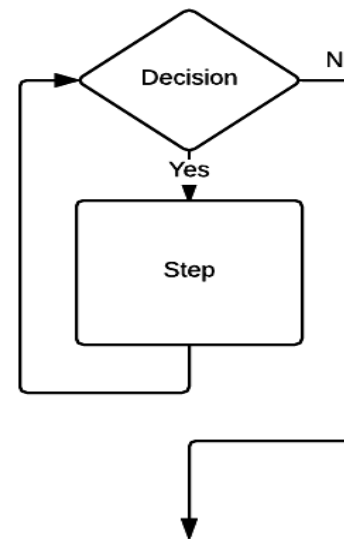
Sequence



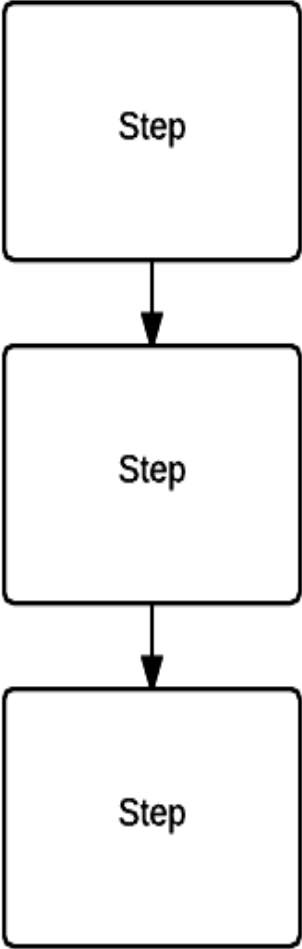
Selection



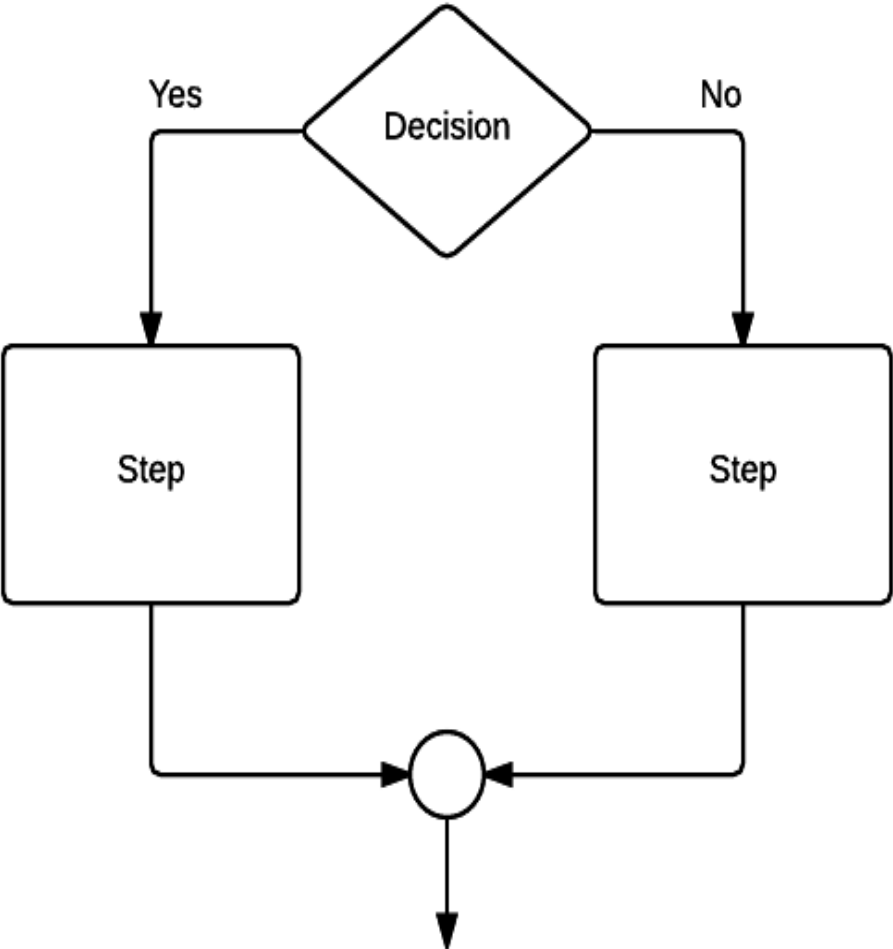
Iteration



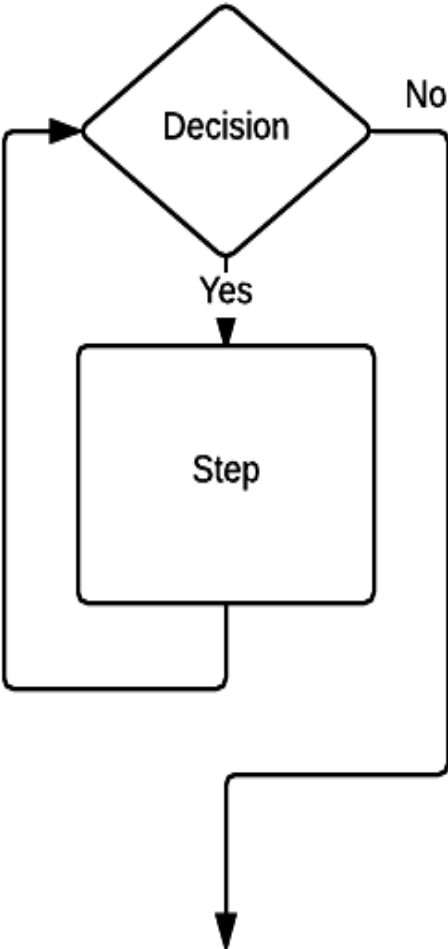
Sequence



Selection



Iteration



Decision Making

Decision Making (if switch)

A programming language uses control statements to control the flow of execution.

Java's Selection statements:

if

if-else

nested-if

if-else-if

switch-case

jump – break, continue, return



These statements allow you to control the flow of your program's execution based upon conditions known only during run time.

Design for Responsive Web and High resolution Devices

-Progressive enhancement or graceful degradation

Graceful degradation and progressive enhancement in a nutshell. ... So, graceful degradation is the practice of building your web functionality so that it provides a certain level of user experience in more modern browsers, but it will also degrade gracefully to a lower level of user experience in older browsers

Progressive enhancement is similar, but it does things the other way round. You start by establishing a basic level of user experience that all browsers will be able to provide when rendering your web site, but you also build in more advanced functionality that will automatically be available to browsers that can use it.



Progressive enhancement or graceful degradation

Graceful Degradation



Progressive Enhancement



In my opinion, the best Mobile websites and the best desktop websites are considerably different with mobile website often being an example of 'less is more' minimalism.

In most mobile browsers then give you an option of 'view desktop site' this gives more functionality to the user who might require more detail or return to content once visited on a desktop site.

This uses Javascript to automatically detect a browser type such as a mobile version, and redirect to another desired version.

Responsive Design and Responsive Content

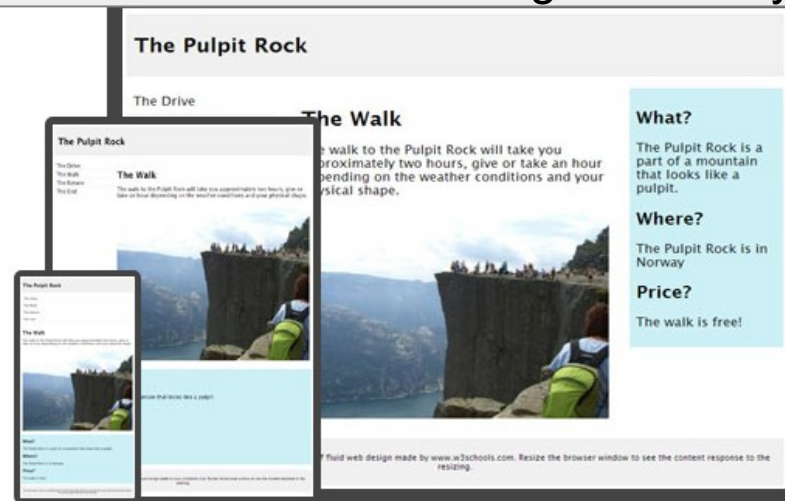
Responsive Design

What is Responsive Web Design?

Responsive Web Design makes your web page look good on all device (desktops, tablets, and phones)

Responsive Web Design is about using HTML and CSS to resize, hide, shrink, enlarge, or move the content to make it look good on any device.

Responsive Content



w3schools.com/html/html_responsive.asp

Self Directed

Practice on Decision Making

If and switch statements

You can use W3Schools Javascript Tutorials for this, JS Fiddle or even Code Pen.



- [JS Data Types](#)
- [JS Functions](#)
- [JS Objects](#)
- [JS Scope](#)
- [JS Events](#)
- [JS Strings](#)
- [JS String Methods](#)
- [JS Numbers](#)
- [JS Number Methods](#)
- [JS Math](#)
- [JS Random](#)
- [JS Dates](#)
- [JS Date Formats](#)
- [JS Date Methods](#)
- [JS Arrays](#)
- [JS Array Methods](#)
- [JS Array Sort](#)
- [JS Booleans](#)
- [JS Comparisons](#)
- [JS Conditions](#)
- [JS Switch](#)
- [JS Loop For](#)
- [JS Loop While](#)
- [JS Break](#)
- [JS Type Conversion](#)
- [JS Bitwise](#)

Test Yourself with Exercises!

[Exercise 1 »](#)[Exercise 2 »](#)[Exercise 3 »](#)[Exercise 4 »](#)[Exercise 5 »](#)[Exercise 6 »](#)[◀ Previous](#)

Front End Web Developer
multiple locations
€18-25k

Web Developer - flexible hours, remote
multiple locations
€40,000 - €50,000 (depending on experience)

Mid Level Front End Developer | Hull
Kingston Upon Hull
€22k - €40k pa + and additional benefits

[REPORT ERROR](#)[PRINT PAGE](#)[FORUM](#)

If Condition Structure

```
if (testscore >= 90) {  
    grade = 'A';  
} else if (testscore >= 80) {  
    grade = 'B';  
} else {  
    grade = 'F';  
}  
  
System.out.println("Grade = " + grade);  
  
}  
  
}
```

NOTE:
Structure
If
Brackets(
Condition
{ Braces or curly brackets
Operand, variable now = this
Else
}
Close statement

Placements

OSO Digital

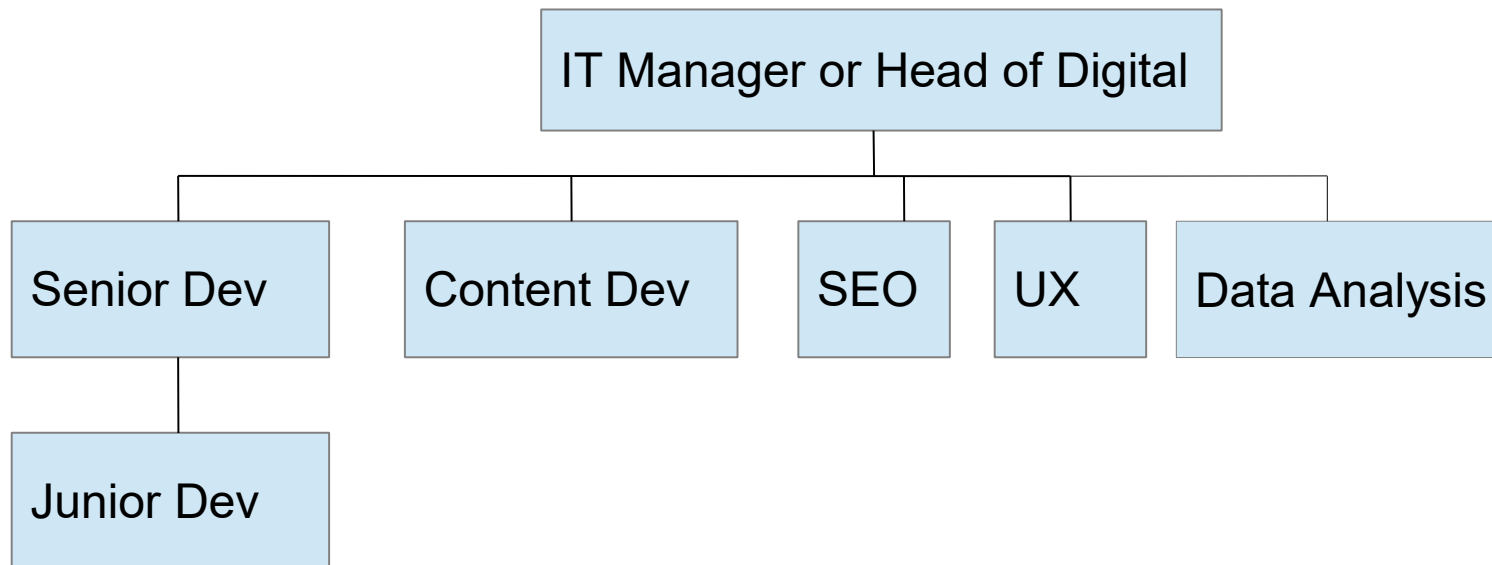
Content Developer

Guest Talk

Role for all students possible.

Business Systems

Typical company structure for web development or the digital creative studio. OSO Digital as a case study.



What is Front End?

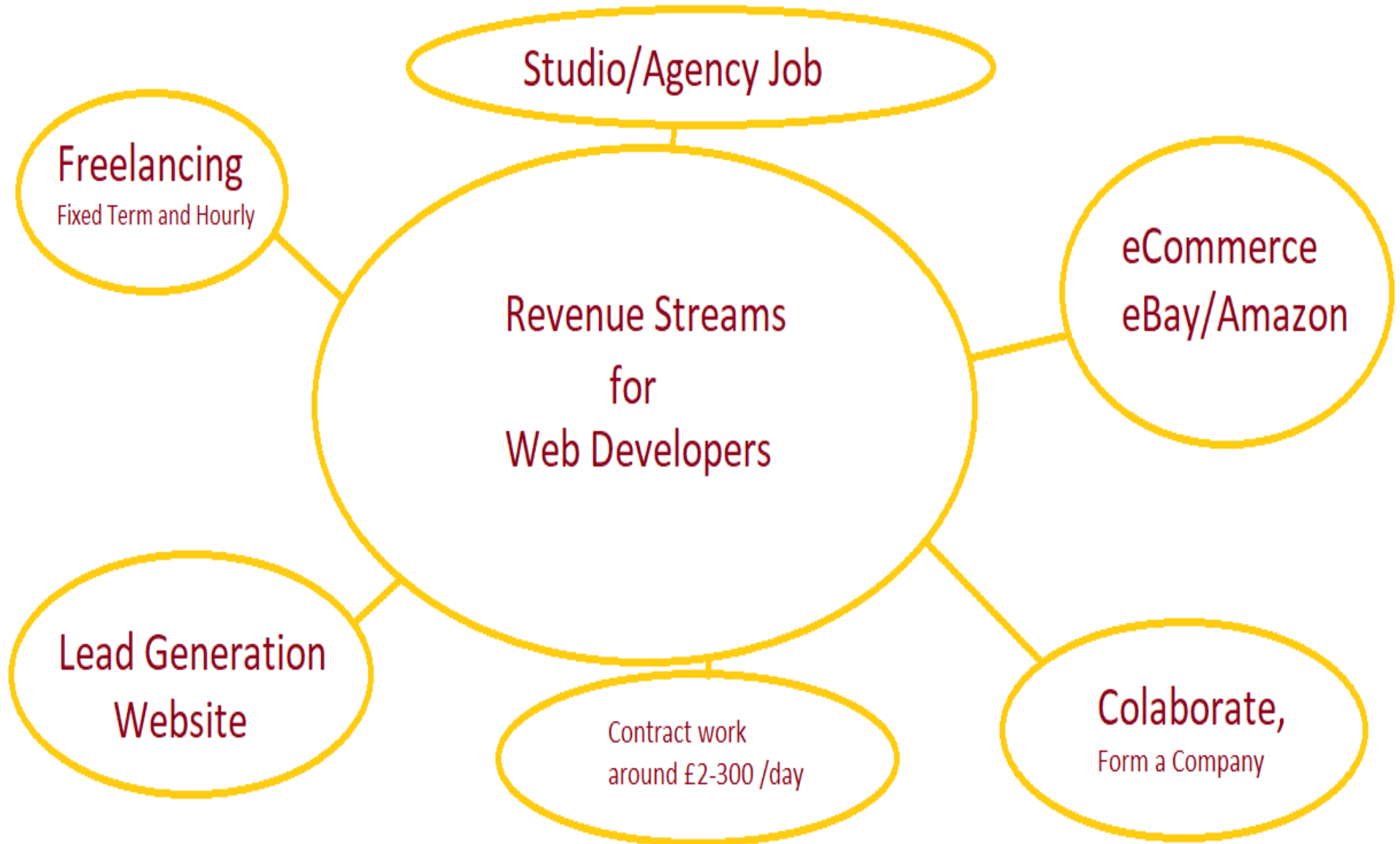
Graphic Designer

Front End Developer

Back End Developer

Where Front End fits in to a normal studio organisation.
Formerly this was Graphic Design, Web Design and Web Development

Direction for Career



Roles on Freelancer.com



Hire Freelancers ▾ Find Work ▾ How It Works

Log In Sign Up

Filter by:

Budget

Fixed Price Projects

min to max

Hourly Projects

min to max

All Durations ▾

Contests

min to max

Skills

.NET

PHP

Web development 3 days left

\$1228 (Avg Bid)

202 bids

I need a new website. I already have a design, I just need you to build a website for my small business. Below is a basic outline of my website requirement. Over the years I've built, or mostly had built dozens of websites. From what's listed below you should be able to get to work and create most of what is...

[Graphic Design](#) [PHP](#) [Website Design](#)

Travel Agency Responsive web site (Android + IOS) Ended VERIFIED

\$1582 (Avg Bid)

201 bids

We need travel agency website (responsive) The features of the website is: -Login/Registration -Booking Flights and Hotels -View history -View packages and booking by contact the agency -Payment by VISA or Mastercard

[PHP](#) [SQL](#) [Website Design](#)

Design a Logo for a Restaurant 1 day left

\$50 (Avg Bid)

201 entries

I need a new logo design for the word "Cravings". Style: Retro, Industrialized, Modern, Splash Style color: Healthy, Vibrant, Splash, Rainbow Cravings is an eatery that serves Burgers and Steaks mainly. We are looking for a logo that has a modern touch with the ting of retro. The design should be elegant yet...

[3D Design](#) [Graphic Design](#) [Illustrator](#) [Logo Design](#) [Photoshop](#)

Overview of Assignment

Using

FRM_SumAssGuide_WBD4300_160111.pdf

Available on Campus Online (moodle)

Javascript Website

- Go over brief
- Concepts

Overview of Rubric from SAE Campus Online, Assessment

How you are graded and its weighting

The JS Website

The Exam

LONDON Content on SAE Campus online.

An overview of the London Additional content
containing their weekly sequencing of course
material.

An overview of formative assignments and exams.

How this applies to you.