Notes for learning C

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1 K & R

1.1 Chapter 1 - A tutorial introduction

- Overview of many language feautures

1.1.1 Hello world

An identical program can be created using `puts`

The `printf` functions is needed for *formatted* output.

1. Exercise 1-1 Run the hello world program. Already done above

2. Exercise 1-2 Use `\c` where c is a non existing escape sequence

    - The escape character `\` is ignored and instead `y` is printed

3. **TODO** Research printf

1.1.2 Fahrenheit and Celcius

- Variables

- Arithmetic

- `5.0` and `9.0` are floats which evaluate to a float instead of 0 if `5` and `9` were used instead

- All statements in C end with a semicolon

- A while loop evaluates its condition every time and executes its instructions if true, other wise it exits

- `5/9` in C truncates to 0

1. Data types C has many data types

   (a) Research
       i. **TODO** char
       ii. **TODO** short
       iii. **TODO** long
       iv. **TODO** double
   (b) Other data types There are also other more complex data types such as arrays, structures and unions.