A little bit of typing relief...

Typedef

Typedefs

- * Typedef is used to create a name for data types.
- * It is used to clarify types in your code (give a name to something that is commonly used) and to avoid entering long type definitions.
- * It is most useful with structures.

Typedef Example

```
struct data {
    int count;
    char name[30];
 };
 typedef struct data info;
                             new type name
structure being typedef'd
```

Typedef Example

- * Now you can use info anywhere in your program where struct data would have been placed.
- * E.g. Define a structure and pointer to type info.

```
info record; /*same as struct data record;*/
info *ptr; /* same as struct data *ptr; */
```

Another Use

- * Another use for typedef is to create a *pointer* type. typedef struct data* infoPtr;
 - this is a pointer to the type struct data
- * This can be confusing if it is not clear that the pointer is part of the typedef.

Alternate Syntax

- * Another syntax for typedef is to include it in the **struct** definition.
- * Same as the previous typedef but combines two operations declaring the struct and creating a type.

```
typedef struct {
   int count;
   char name[30];
} info;
```