

Literate Example

BY SAM LIDDICOTT

sam@liddicott.com

Abstract

This is a simple example of how to use literate programming templates, using hello-world.

Hello-world is a famous *first program* with a visible side effect.

This example produces hello-world in multiple languages.

Table of contents

1 Hello World	1
1.1 In French	1
1.2 In German	1

1 Hello World

The typical hello world program looks like this:

1a `<hello-world[1](message, language), lang=> ≡`

```
1 /* The traditional hello-world program in <language>
2  * generated using fangle literate programming macros
3  */
4
5 #include <stdio.h>
6
7 main() {
8     printf("<message>\n");
9 }
```

1.1 In French

We will derive the french hello-world program like this:

?a `<./hello-world.fr.c[1](), lang=> ≡`

```
1 <hello-world(Bonjour tout le monde, french) 1a>
```

1.2 In German

We will derive the german hello-world program like this:

?b `<./hello-world.de.c[1](), lang=> ≡`

```
1 <hello-world(Hallo welt, german) 1a>
```
