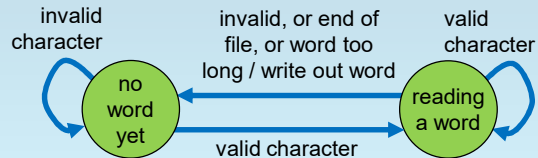


View Reading Words as a Finite State Machine

We can view reading words as an FSM:



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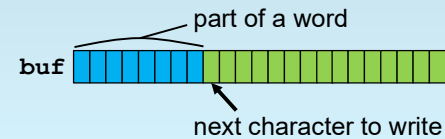
Store Words in an Array of Characters

Where do we store the words?

We only read

- one word at a time, so
- we just need **an array of characters...**

We'll **limit the size to 500** characters.



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Let's Learn About Arguments to `main` and Error Reporting

Before coding, let's look at

- arguments to `main` and
- error reporting.

In the past,

- **we ignored arguments to `main`,**
- although, if you looked into the code
- given in many MPs,
- you have already seen
- the ones we will discuss today.

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`main` Receives Three Arguments: `argc`, `argv`, `envp`

`main` receives three arguments:

- `int argc` – the **number of command-line arguments** used to start the program, **including the program name**,
- `const char* const argv[]` – an **array of arguments** (length is `argc`, but also `NULL`-terminated)
- `const char* const envp[]` – a **`NULL`-terminated array of environment variables** (`var=value`).

We will continue to ignore `envp`.

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