

# N2686: #warning

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## Rationale

C has had since C89 an `#error` preprocessing directive. Over the years many implementations have provided a `#warning` directive, with its obvious semantics. Making this feature standard seems desirable and its implementation is very easy. It is currently supported by gcc, clang, EDG, the ICC and IBM's XL C at a minimum. Other compilers, like MSVC, support it via a `#pragma`.

## Proposed wording

Include it in the list of directives in 6.10:

### 6.10 Preprocessing directives

#### Syntax

```
# error pp-tokensopt new-line  
# warning pp-tokensopt new-line
```

Include it in section 6.10.5 Error directive, which would change its title to “Diagnostic directives”.

#### 6.10.5. ~~Error directive~~Diagnostic directives

#### Semantics

A preprocessing directive of ~~the~~either form

```
# error pp-tokensopt new-line  
# warning pp-tokensopt new-line
```

causes the implementation to produce a diagnostic message that includes the specified sequence of preprocessing tokens.

## Rationale for the wording

Many a reader will miss an extra sentence like:

In addition, the **`error`** directive causes the translation to fail, as described in 4.

However, such a sentence is already missing in the current standard, and the C Rationale says:

Formally, the Standard can require only that a diagnostic be issued when the **`error`** directive is processed.