

Test.All

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Contents

1	Test.All	2
2	Test.Sub.Base	2
3	Test3	3

1 Test.All

First text line

```
module Test.All where

-- import Test
import Test2
import Test3
import Test.Sub.Base

-- Just testing...
```

Literate prose is included in generated webpages and PDFs. It is generally rendered as plain text:

- * Blank lines produce paragraph breaks, but line breaks and indentation are otherwise ignored.
- * URLs do not become links.
- * Characters treated as special by LaTeX lead to errors when generating PDFs.
- * Use of Unicode characters in generated PDFs may require mapping them to LaTeX markup.

The subset of LaTeX math markup supported by KaTeX (<https://katex.org>) is rendered correctly in webpages and PDFs. The following examples are from the Material for MkDocs website:

$$\cos x = \sum_{k=0}^{\infty} \frac{(-1)^k}{(2k)!} x^{2k}$$

The homomorphism f is injective if and only if its kernel is only the singleton set e_G , because otherwise $\exists a, b \in G$ with $a \neq b$ such that $f(a) = f(b)$.

-- More code

Last text line

2 Test.Sub.Base

```
module Test.Sub.Base where
```

This module is imported by Test.All, and should be included in the website generated from Test.All.

3 Test3

This test file currently lacks module-related stuff.

And interesting uses of shadowing.

```
module Test3 where

infix 12 _
infixl 7 _+_ -_-
infixr 2 _-

data ℕ : Set where
  zero : ℕ
  suc : ℕ → ℕ

_+_: ℕ → ℕ → ℕ
zero + n = n
suc m + n = suc (m + n)

postulate _-_ : ℕ → ℕ → ℕ
-_ : ℕ → ℕ
-n = n

_-! : ℕ → ℕ
zero ! = suc zero
suc n ! = n - n !

record Equiv {a : Set} (_≈_ : a → a → Set) : Set where
  field
    refl : forall x → x ≈ x
    sym : {x y : a} → x ≈ y → y ≈ x
    _ 'trans' _ : forall {x y z} → x ≈ y → y ≈ z → x ≈ z

data _≡_ {a : Set} (x : a) : a → Set where
  refl : x ≡ x

subst : forall {a x y} →
  (P : a → Set) → x ≡ y → P x → P y
subst {x = x} {y = y} _ refl p = p

Equiv-≡ : forall {a} → Equiv {a} _≡_
Equiv-≡ {a} =
  record { refl = λ _ → refl
          ; sym = sym
          ; _ 'trans' _ = _ 'trans' _
          }
  where
    sym : {x y : a} → x ≡ y → y ≡ x
    sym refl = refl
```

```
_ `trans` : {x y z : a} → x ≡ y → y ≡ z → x ≡ z
refl `trans` refl = refl
```

```
postulate
  String : Set
  Char : Set
  Float : Set

{-# BUILTIN STRING String #-}
{-# BUILTIN CHAR  Char #-}
{-# BUILTIN FLOAT  Float #-}

{-# BUILTIN NATURAL ℕ  #-}

data [_] (a : Set) : Set where
  [] : [ a ]
  _ :: _ : a → [ a ] → [ a ]

{-# BUILTIN LIST [_] #-}
-- {-# BUILTIN NIL  []  #-}
-- {-# BUILTIN CONS _ :: _ #-}

primitive
  primStringToList : String → [ Char ]

string : [ Char ]
string = primStringToList "Ǝ apa"

char : Char
char = '∀'

anotherString : String
anotherString = "¬ be\
  \pa"

nat : ℕ
nat = 45

float : Float
float = 45.0e-37
```