Test.All

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Contents

1 Test.All

First text line

```
module Test.All where

import Test
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 Test

Copied from examples/syntax/highlighting/Test3.lagda in the agda/agda repository, with additional literate prose by @pdmosses

This test file currently lacks module-related stuff.

And interesting uses of shadowing.

```
module Test where

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

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

The type Set is declared in the built-in module Agda.Primitive.

```
_+_ : 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 = x} _ 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 "∃ apa"

char : Char
char = '∀'

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

nat : ℕ
nat = 45

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