Hey ho, Io!

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Io

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1 The origin

2 The features

3 The syntax

4 The concurrency

5 The challenge

Io

└─The origin

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The origin and usage of the Io language

Io

└─The origin

2002

- rather new

2002

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└─The origin

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Steve Dekorte

Steve Dekorte

- written to help him understand how languages work
- looks like a good way to get more insight into programming languages

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└─The origin

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Where is it used?

Where is it used?

The origin
The features
The syntax
The concurrency
The challenge

Io
└─The origin

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What language is it written in?
C

What language is it written in?
C

Io

└─The features

The features of the Io language

The features of the Io language

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└─The features

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Interpreted or compiled or both?
Interpreted.

Interpreted or compiled or both?
Interpreted.

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└─The features

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Object oriented

Object oriented

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└─The features

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There are no classes

There are no classes

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└─The features

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Prototype-based

Prototype-based

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└─The features

Type system

Type system

Weak or strong typing?
Weak. (?)

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└─The features

Static or dynamic typing?
Dynamic.

Static or dynamic typing?
Dynamic.

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└─The features

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Simple syntax

- no syntactic sugar like in Ruby

Simple syntax

Io

└─The features

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Strong support for concurrency

Strong support for concurrency

The origin
The features
The syntax
The concurrency
The challenge

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└─The syntax

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The syntax of Io language

The syntax of Io language

Io

└─The concurrency

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The concurrency in the Io language

The concurrency in the Io language

The origin
The features
The syntax
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Io
└─The concurrency

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Coroutines

Coroutines

Actors

Io

└─The concurrency

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Futures

Futures

Io

└─The challenge

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The challenge(s)

The challenge(s)

The origin
The features
The syntax
The concurrency
The challenge

Io
└─The challenge

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Simple chat

Simple chat

The dining philosophers problem