# Beautiful IO

Golab 2019, 2019-10-21, Firenze

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# About me

SWE @ubleipzig and web data engineer
@internetarchive working mostly with Python and Go.

> Explore IO workshop at Golab 2017.

# The IO package

- contains basic, widely used interfaces (within and outside standard library)
- simple, flexible helpers

# Why beautiful?

> La bellezza Ã¨ negli occhi di chi guarda

- small, versatile interfaces
- stackable
- reminiscent of UNIX pipes

# Love and praise

> This article aims to convince you to use io.Reader in your own code wherever
> you can. -- @matryer

> "Crossing Streams: a love letter to Go io.Reader" -- @jmoiron

> Which brings me to io.Reader, easily my favourite Go
> interface. --
> @davecheney

# What's in io?

- 25 types - of which 21 are interfaces, 7 functions, 3 constants, 6 errors

The four non-interfaces types are: `LimitedReader` , `PipeReader` , `PipeWriter` ,
`SectionReader` . Functions: `Copy*` , `Pipe` , `ReadAtLeast` ,
`ReadFull` ,
`WriteString` .

# How many readers are in the standard library?

- TODO: count

# How do you implement one?

```go
type Reader interface {
        Read(p []byte) (n int, err error)
}
```