

PrettyPrinting

Optimal layout for code and data

<https://github.com/MechanicalRabbit/PrettyPrinting.jl>

Kyrylo Simonov


```
julia> print(["Hello", "World"])  
["Hello", "World"]
```

```
julia> print(["Hello", "World"])  
["Hello", "World"]
```

```
julia> show(["Hello", "World"])  
["Hello", "World"]
```

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julia> print(["Hello", "World"])  
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julia> show(["Hello", "World"])  
["Hello", "World"]
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```
julia> display(["Hello", "World"])  
2-element Vector{String}:  
 "Hello"  
 "World"
```

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julia> print(["Hello", "World"])  
["Hello", "World"]
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```
julia> show(["Hello", "World"])  
["Hello", "World"]
```

```
julia> display(["Hello", "World"])  
2-element Vector{String}:  
 "Hello"  
 "World"
```

```
julia> dump(["Hello", "World"])  
Array{String}((2,))  
 1: String "Hello"  
 2: String "World"
```

```
julia> print(["Hello", "World"])  
["Hello", "World"]
```

```
julia> show(["Hello", "World"])  
["Hello", "World"]
```

julia> using PrettyPrinting

```
julia> pprint(["Hello", "World"])  
["Hello", "World"]
```

```
julia> display(["Hello", "World"])  
2-element Vector{String}:  
 "Hello"  
 "World"
```

```
julia> dump(["Hello", "World"])  
Array{String}(2,)  
 1: String "Hello"  
 2: String "World"
```

```
julia> TOML.parsefile("Project.toml") |> show
Dict{String, Any}("deps" => Dict{String, Any}("Dates" => "ade2ca7
0-3891-5945-98fb-dc099432e06a", "PrettyPrinting" => "54e16d92-306
c-5ea0-a30b-337be88ac337"), "name" => "FunSQL", "uuid" => "cf6cc8
11-59f4-4a10-b258-a8547a8f6407", "compat" => Dict{String, Any}("j
ulia" => "1.4", "PrettyPrinting" => "0.3.2"), "authors" => ["Kiri
ll Simonov <xi@resolvent.net>", "Clark C. Evans <cce@clarkevans.c
om>"], "version" => "0.6.0")
```



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julia> TOML.parsefile("Project.toml") |> show
Dict{String, Any}("deps" => Dict{String, Any}("Dates" => "ade2ca70-3891-5945-98fb-dc099432e06a", "PrettyPrinting" => "54e16d92-306c-5ea0-a30b-337be88ac337"), "name" => "FunSQL", "uuid" => "cf6cc811-59f4-4a10-b258-a8547a8f6407", "compat" => Dict{String, Any}("julia" => "1.4", "PrettyPrinting" => "0.3.2"), "authors" => ["Kirill Simonov <xi@resolvent.net>", "Clark C. Evans <cce@clarkevans.com>"], "version" => "0.6.0")
```

```
julia> TOML.parsefile("Project.toml") |> display
Dict{String, Any} with 6 entries:
  "deps"      => Dict{String, Any}("Dates"=>"ade2ca70-3891-5945-98...
  "name"      => "FunSQL"
  "uuid"      => "cf6cc811-59f4-4a10-b258-a8547a8f6407"
  "compat"    => Dict{String, Any}("julia"=>"1.4", "PrettyPrinting...
  "authors"   => ["Kirill Simonov <xi@resolvent.net>", "Clark C. E...
  "version"   => "0.6.0"
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    "PrettyPrinting" =>
    "54e16d92-306c-5ea0-a30b-337be88ac337"),
    "name" => "FunSQL",
    "uuid" => "cf6cc811-59f4-4a10-b258-a8547a8f6407",
    "compat" => Dict("julia" => "1.4",
    "PrettyPrinting" => "0.3.2"),
    "authors" => ["Kirill Simonov <xi@resolvent.net>",
    "Clark C. Evans <cce@clarkevans.com>"],
    "version" => "0.6.0")
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"compat" => Dict{String, Any}("julia" => "1.4", "PrettyPrinting" => "0.3.2"),
"authors" => ["Kirill Simonov <xi@resolvent.net>", "Clark C. E...
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    "PrettyPrinting" =>
    "54e16d92-306c-5ea0-a30b-337be88ac337"},
    "name" => "FunSQL",
    "uuid" => "cf6cc811-59f4-4a10-b258-a8547a8f6407",
    "compat" => Dict{"julia" => "1.4",
    "PrettyPrinting" => "0.3.2"),
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    "PrettyPrinting" => "54e16d92-306c-5ea0-a30b-337be88ac337"},
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    "authors" => ["Kirill Simonov <xi@resolvent.net>",
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```

Supported data types:

- Tuple
- NamedTuple
- Vector
- Set
- Dict
- Expr

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- Tuple
- NamedTuple
- Vector
- Set
- Dict
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```
julia> Pkg.project()
```

```
Pkg.API.ProjectInfo("FunSQL", UUID("cf6cc811-59f4-4a10-b258-a8547a8f6407"), v"0.6.0", true, Dict{String, Base.UUID}("Dates" => UUID("ade2ca70-3891-5945-98fb-dc099432e06a"), "PrettyPrinting" => UUID("54e16d92-306c-5ea0-a30b-337be88ac337")), "/home/xi/MechanicalRabbit/FunSQL.jl/Project.toml")
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```

```
PrettyPrinting.quoteof(info::Pkg.API.ProjectInfo) =  
    :(Pkg.API.ProjectInfo(name = $(info.name),  
                           uuid = $(info.uuid),  
                           version = $(info.version),  
                           ispackage = $(info.ispackage),  
                           dependencies = $(info.dependencies),  
                           path = $(info.path)))
```

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PrettyPrinting.quoteof(info::Pkg.API.ProjectInfo) =  
    :(Pkg.API.ProjectInfo(name = $(info.name),  
                           uuid = $(info.uuid),  
                           version = $(info.version),  
                           ispackage = $(info.ispackage),  
                           dependencies = $(info.dependencies),  
                           path = $(info.path)))
```

```
julia> Pkg.project() |> pprint
```

```
Pkg.API.ProjectInfo(  
  name = "FunSQL",  
  uuid = UUID("cf6cc811-59f4-4a10-b258-a8547a8f6407"),  
  version = v"0.6.0",  
  ispackage = true,  
  dependencies =  
    Dict{String, String} =>  
      Dict{String, String} =>  
        Dict{String, String} =>  
          Dict{String, String} =>  
            Dict{String, String} =>  
              Dict{String, String} =>  
                Dict{String, String} =>  
                  Dict{String, String} =>  
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                      Dict{String, String} =>  
                        Dict{String, String} =>  
                          Dict{String, String} =>  
                        UUID("ade2ca70-3891-5945-98fb-dc099432e06a"),  
                      "PrettyPrinting" =>  
                        UUID("54e16d92-306c-5ea0-a30b-337be88ac337")),  
  path = "/home/xi/MechanicalRabbit/FunSQL.jl/Project.toml")
```



```
Base.show(io::IO, ::MIME"text/plain", info::Pkg.API.ProjectInfo) =  
  pprint(io, info)
```

```
julia> Pkg.project()  
Pkg.API.ProjectInfo(  
  name = "FunSQL",  
  uuid = UUID("cf6cc811-59f4-4a10-b258-a8547a8f6407"),  
  version = v"0.6.0",  
  ispackage = true,  
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    Dict{String, String} =>  
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                        UUID("54e16d92-306c-5ea0-a30b-337be88ac337")),  
  path = "/home/xi/MechanicalRabbit/FunSQL.jl/Project.toml")
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```
julia> Pkg.project(  
Pkg.API.ProjectInfo(  
a8f6407"), v"0.6.0"  
D("ade2ca70-3891-5945-98fb-dc099432e06a"),  
ID("54e16d92-306c-5ea0-a30b-337be88ac337"),  
Rabbit/FunSQL.jl/Project.toml")
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PrettyPrinting.quoteof  
:(Pkg.API.ProjectInfo(  
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ispackage = true,  
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```
Base.show(io::IO, ppi::Pkg.API.ProjectInfo) =  
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julia> Pkg.project() |> pprint  
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  version = v"0.6.0",  
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