Package 'ifm'

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ifm-package

Set of functions for financial evaluation of Software Projects

Description

R packeage with a set of functions for financial evaluation of Software Project.

Details

The DESCRIPTION file: This package was not yet installed at build time.

Index: This package was not yet installed at build time.

~~ An overview of how to use the package, including the most important functions ~~

Author(s)

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References

~~ Literature or other references for background information ~~

See Also

~~ Optional links to other man pages, e.g. ~~

Examples

```
## examples here...
```

discount.rate.vector

Vectorize the Discount Rate

Description

Generate a vector with discount rate to be applied to each of the time periods.

Usage

```
discount.rate.vector(interest.rate, number.of.periods,
  begin.of.period = FALSE)
```

Arguments

 $\label{lem:continuous} \textbf{Interest.rate} \quad \textbf{A number that represents the nominal Interest Rate, presented by year.} \\ \textbf{number.of.periods}$

Times that interest rate should be applied.

begin.of.period

A boolean that represents if the Tax Rate will be applied at the begining of period. FALSE by default.

draw.cfs 3

See Also

Other financial: draw.cfs, future.value, inflation.free.interest.rate, net.future.value, net.present.value, present.value

Examples

```
ex.disc.vector <- discount.rate.vector(6.19, 12)</pre>
```

draw.cfs

Draw the graph of cash flow.

Description

Draw the graph of cash flow.

Usage

```
draw.cfs(cfs, gt = "Cash Flow Graphic")
```

Arguments

cfs A vector with a series of cash flows.

gt A title for the graph.

See Also

Other financial: discount.rate.vector, future.value, inflation.free.interest.rate, net.future.value, net.present.value, present.value

Examples

```
ex.cfs <- c(-2000,1000,1500,-500,500)
draw.cfs(ex.cfs,'My Cash Flow')
```

future.value

Calculate the future value of an asset at a specific date. It measures the nominal future sum of money that a given sum of money is "worth" at a specified time in the future assuming a certain interest rate, or more generally, rate of return.

Description

Calculate the future value of an asset at a specific date. It measures the nominal future sum of money that a given sum of money is "worth" at a specified time in the future assuming a certain interest rate, or more generally, rate of return.

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Usage

```
future.value(present.value, interest.rate, number.of.periods)
```

Arguments

```
present.value     A number that represents the present value of the money.
interest.rate     A number that represents the interest rate.
number.of.periods
```

A number that represent the number of periods.

See Also

Other financial: discount.rate.vector, draw.cfs, inflation.free.interest.rate, net.future.value, net.present.value, present.value

Examples

```
ex.fv <- future.value(1000, 1.1425, 12)
print(ex.fv)</pre>
```

```
inflation.free.interest.rate
```

Calculate the Inflation-free Interest Rate.

Description

Calculate the Inflation-free Interest Rate.

Usage

```
inflation.free.interest.rate(interest.rate = 14.25, inflation.rate = 7.59)
```

Arguments

```
interest.rate A number that represents the nominal Interest Rate, presented by year. inflation.rate A number that represents the Inflation Rate, presented by year.
```

See Also

```
Other financial: discount.rate.vector, draw.cfs, future.value, net.future.value, net.present.value, present.value
```

Examples

```
ex.ifir <- inflation.free.interest.rate(14.25, 12)</pre>
```

net.future.value 5

net.future.value

Vectorize the Future Value

Description

Vectorize the Future Value

Usage

```
net.future.value(cfs, interest.rate, begin.of.period = FALSE)
```

Arguments

cfs

A vector with a series of cash flows.

interest.rate

A number that represents the nominal Interest Rate, presented by year.

begin.of.period

A boolean that represents if the Tax Rate will be applied at the begining of

period. FALSE by default.

See Also

Other financial: discount.rate.vector, draw.cfs, future.value, inflation.free.interest.rate, net.present.value, present.value

Examples

```
ex.nfv <- net.future.value(c(-350,100,200,150,75), 6.19, TRUE)
```

net.present.value

Vectorize the Present Value

Description

Vectorize the Present Value

Usage

```
net.present.value(cfs, interest.rate, begin.of.period = FALSE)
```

Arguments

cfs

A vector with a series of cash flows.

interest.rate

A number that represents the nominal Interest Rate, presented by year.

begin.of.period

A boolean that represents if the Tax Rate will be applied at the begining of period. FALSE by default.

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See Also

Other financial: discount.rate.vector, draw.cfs, future.value, inflation.free.interest.rate, net.future.value, present.value

Examples

```
ex.npv <- net.present.value(c(-350,100,200,150,75), 6.19, TRUE)
```

present.value

Calculate the present value of an asset at a specific date.

Description

In economics, present value, also known as present discounted value, is the value of an expected income stream determined as of the date of valuation. The present value is always less than or equal to the future value because money has interest-earning potential, a characteristic referred to as the time value of money, except during times of negative interest rates, when the present value will be less than the future value.

Usage

```
present.value(future.value, interest.rate, number.of.periods)
```

Arguments

```
future.value A number that represents the future value of the money. interest.rate A number that represents the interest rate. number.of.periods

A number that represent the number of periods.
```

See Also

```
Other financial: discount.rate.vector, draw.cfs, future.value, inflation.free.interest.rate, net.future.value, net.present.value
```

Examples

```
ex.pv <- present.value(1000, 1.1425, 12)
print(ex.pv)</pre>
```

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