

# Package ‘odds.converter’

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**Type** Package

**Title** Betting Odds Conversion

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**Description** Conversion between the most common odds types for sports betting.  
Hong Kong odds, US odds, Decimal odds, Indonesian odds, Malaysian odds, and raw  
Probability are covered in this package.

**License** GPL-3

**RoxygenNote** 6.0.1

**Suggests** testthat

**NeedsCompilation** no

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odds.dec2all *Convert Decimal Odds to all other formats*

---

**Description**

Convert Decimal Odds to all other formats

**Usage**

odds.dec2all(x)

**Arguments**

x                    A vector of Decimal odds

**Value**

A data.frame

**Examples**

```
odds.dec2all(c(1.93, 2.05))
```

---

odds.dec2hk	<i>Convert Decimal Odds to Hong Kong odds</i>
-------------	-----------------------------------------------

---

**Description**

Convert Decimal Odds to Hong Kong odds

**Usage**

```
odds.dec2hk(x)
```

**Arguments**

x                    A vector of Decimal odds

**Value**

A vector of Hong Kong odds

**Examples**

```
odds.dec2hk(c(1.93, 2.05))
```

---

odds.dec2indo	<i>Convert Decimal Odds to Indonesian odds</i>
---------------	------------------------------------------------

---

**Description**

Convert Decimal Odds to Indonesian odds

**Usage**

```
odds.dec2indo(x)
```

**Arguments**

x                    A vector of Decimal odds

**Value**

A vector of Indonesian odds

**Examples**

```
odds.dec2indo(c(1.93, 2.05))
```

---

odds.dec2malay      *Convert Decimal Odds to Malaysian odds*

---

**Description**

Convert Decimal Odds to Malaysian odds

**Usage**

```
odds.dec2malay(x)
```

**Arguments**

x                      A vector of Decimal odds

**Value**

A vector of Malaysian odds

**Examples**

```
odds.dec2malay(c(1.93,2.05))
```

---

odds.dec2prob      *Convert Decimal Odds to Probabilities*

---

**Description**

Convert Decimal Odds to Probabilities

**Usage**

```
odds.dec2prob(x)
```

**Arguments**

x                      A vector of Decimal odds

**Value**

A vector of Probabilities

**Examples**

```
odds.dec2prob(c(1.93,2.05))
```

---

odds.dec2us	<i>Convert Decimal Odds to US Odds</i>
-------------	----------------------------------------

---

**Description**

Convert Decimal Odds to US Odds

**Usage**

```
odds.dec2us(x)
```

**Arguments**

x	A vector of Decimal odds
---	--------------------------

**Value**

A vector of US odds

**Examples**

```
odds.dec2us(c(1.93, 2.05))
```

---

odds.fv	<i>Calculate the fair (vigorish free) odds for a vector of vigged odds.</i>
---------	-----------------------------------------------------------------------------

---

**Description**

Calculate the fair (vigorish free) odds for a vector of vigged odds.

**Usage**

```
odds.fv(..., input = "us", output = "us",
  Vectorized2wayOutput1stElement = FALSE)
```

**Arguments**

...	Odds of the format defined in input, the odds can be submitted as a data.frame or as a vector
input	Default to US Odds. Valid selections are "us" for US odds, "prob" for Probability, "dec" for Decimal odds, "malay" for Malaysian odds, "hk" for Hong Kong odds, "indo" for Indonesian odds
output	Default to US Odds. Valid selections are "us" for US odds, "prob" for Probability, "dec" for Decimal odds, "malay" for Malaysian odds, "hk" for Hong Kong odds, "indo" for Indonesian odds
Vectorized2wayOutput1stElement	This speeds up the calculation as the output is a a vector that contains the FV of the first input. Usefull in dplyr chains.

**Value**

A vector or a matrix of the fair values of the the given vigged values in the format chosen in output

**Examples**

```
odds.fv(-120,110)
odds.fv(2.05,3.12,2.90,input="dec",output="prob")
df <- data.frame(Home = c(1.5,1.8,1.9),
                 Away = c(2.9,2.2,2.05))
odds.fv(df,input = "dec",output = "prob")
odds.fv(df$Home,df$Away,input="dec",output="prob")
odds.fv(df$Home,df$Away,input="dec",output="prob",Vectorized2wayOutput1stElement = TRUE)
```

---

odds.hk2all

*Convert Hong Kong Odds to all other formats*

---

**Description**

Convert Hong Kong Odds to all other formats

**Usage**

```
odds.hk2all(x)
```

**Arguments**

x                    A vector of Hong Kong odds

**Value**

A data.frame

**Examples**

```
odds.hk2all(c(1.93,0.05))
```

---

`odds.hk2dec`*Convert Hong Kong Odds to Decimal Odds*

---

**Description**

Convert Hong Kong Odds to Decimal Odds

**Usage**

```
odds.hk2dec(x)
```

**Arguments**

`x` A vector of Hong Kong odds

**Value**

A vector of Decimal odds

**Examples**

```
odds.hk2dec(c(1.93, 0.05))
```

---

`odds.hk2indo`*Convert Hong Kong Odds to Indonesian Odds*

---

**Description**

Convert Hong Kong Odds to Indonesian Odds

**Usage**

```
odds.hk2indo(x)
```

**Arguments**

`x` A vector of Hong Kong odds

**Value**

A vector of Indonesian odds

**Examples**

```
odds.hk2indo(c(1.93, 0.05))
```

---

odds.hk2malay      *Convert Hong Kong Odds to Malaysian Odds*

---

**Description**

Convert Hong Kong Odds to Malaysian Odds

**Usage**

```
odds.hk2malay(x)
```

**Arguments**

x                      A vector of Hong Kong odds

**Value**

A vector of Malaysian odds

**Examples**

```
odds.hk2malay(c(1.93,0.05))
```

---

odds.hk2prob      *Convert Hong Kong Odds to Probabilities*

---

**Description**

Convert Hong Kong Odds to Probabilities

**Usage**

```
odds.hk2prob(x)
```

**Arguments**

x                      A vector of Hong Kong odds

**Value**

A vector of Probabilities

**Examples**

```
odds.hk2us(c(1.93,0.05))
```

---

odds.hk2us	<i>Convert Hong Kong Odds to US Odds</i>
------------	------------------------------------------

---

**Description**

Convert Hong Kong Odds to US Odds

**Usage**

```
odds.hk2us(x)
```

**Arguments**

x                    A vector of Hong Kong odds

**Value**

A vector of US odds

**Examples**

```
odds.hk2us(c(1.93, 0.05))
```

---

odds.indo2all	<i>Convert Indonesian to all other formats</i>
---------------	------------------------------------------------

---

**Description**

Convert Indonesian to all other formats

**Usage**

```
odds.indo2all(x)
```

**Arguments**

x                    A vector of Indonesian odds

**Value**

A data.frame

**Examples**

```
odds.indo2all(c(1.93, 2.05))
```

---

odds.indo2dec      *Convert Indonesian odds to Decimal odds*

---

**Description**

Convert Indonesian odds to Decimal odds

**Usage**

```
odds.indo2dec(x)
```

**Arguments**

x                      A vector of Indonesian odds

**Value**

A vector of Hong Kong odds

**Examples**

```
odds.indo2dec(c(1.93, 2.05))
```

---

odds.indo2hk      *Convert Indonesian odds to Hong Kong odds*

---

**Description**

Convert Indonesian odds to Hong Kong odds

**Usage**

```
odds.indo2hk(x)
```

**Arguments**

x                      A vector of Indonesian odds

**Value**

A vector of Hong Kong odds

**Examples**

```
odds.indo2hk(c(1.93, 2.05))
```

---

odds.indo2malay	<i>Convert Indonesian odds to Malaysian odds</i>
-----------------	--------------------------------------------------

---

**Description**

Convert Indonesian odds to Malaysian odds

**Usage**

```
odds.indo2malay(x)
```

**Arguments**

x                    A vector of Indonesian odds

**Value**

A vector of Malaysian odds

**Examples**

```
odds.indo2malay(c(1.93, 2.05))
```

---

odds.indo2prob	<i>Convert Indonesian odds to Probabilities</i>
----------------	-------------------------------------------------

---

**Description**

Convert Indonesian odds to Probabilities

**Usage**

```
odds.indo2prob(x)
```

**Arguments**

x                    A vector of Indonesian odds

**Value**

A vector of Probabilities

**Examples**

```
odds.indo2hk(c(1.93, 2.05))
```

---

odds.indo2us	<i>Convert Indonesian odds to US odds</i>
--------------	-------------------------------------------

---

**Description**

Convert Indonesian odds to US odds

**Usage**

```
odds.indo2us(x)
```

**Arguments**

x                    A vector of Indonesian odds

**Value**

A vector of US odds

**Examples**

```
odds.indo2us(c(1.93, 2.05))
```

---

odds.malay2all	<i>Convert Malaysian Odds to all other formats</i>
----------------	----------------------------------------------------

---

**Description**

Convert Malaysian Odds to all other formats

**Usage**

```
odds.malay2all(x)
```

**Arguments**

x                    A vector of Malaysian odds

**Value**

A data.frame

**Examples**

```
odds.malay2all(c(0.5, -0.6))
```

---

odds.malay2dec	<i>Convert Malaysian odds to Decimal odds</i>
----------------	-----------------------------------------------

---

**Description**

Convert Malaysian odds to Decimal odds

**Usage**

```
odds.malay2dec(x)
```

**Arguments**

x                    A vector of Malaysian odds

**Value**

A vector of Decimal odds

**Examples**

```
odds.malay2dec(c(0.5, -0.6))
```

---

odds.malay2hk	<i>Convert Malaysian odds to Hong Kong odds</i>
---------------	-------------------------------------------------

---

**Description**

Convert Malaysian odds to Hong Kong odds

**Usage**

```
odds.malay2hk(x)
```

**Arguments**

x                    A vector of Malaysian odds

**Value**

A vector of Hong Kong odds

**Examples**

```
odds.malay2hk(c(1.93, 2.05))
```

---

odds.malay2indo      *Convert Malaysian odds to Indonesian odds*

---

**Description**

Convert Malaysian odds to Indonesian odds

**Usage**

```
odds.malay2indo(x)
```

**Arguments**

x                      A vector of Malaysian odds

**Value**

A vector of Indonesian odds

**Examples**

```
odds.malay2indo(c(1.93, 2.05))
```

---

odds.malay2prob      *Convert Malaysian odds to Probabilities*

---

**Description**

Convert Malaysian odds to Probabilities

**Usage**

```
odds.malay2prob(x)
```

**Arguments**

x                      A vector of Malaysian odds

**Value**

A vector of Probabilities

**Examples**

```
odds.malay2prob(c(1.93, 2.05))
```

---

odds.malay2us	<i>Convert Malaysian odds to US odds</i>
---------------	------------------------------------------

---

**Description**

Convert Malaysian odds to US odds

**Usage**

```
odds.malay2us(x)
```

**Arguments**

x                    A vector of Malaysian odds

**Value**

A vector of US odds

**Examples**

```
odds.malay2us(c(0.5, -0.6))
```

---

odds.parlay	<i>Transfer a vector to odds into correct parlay odds</i>
-------------	-----------------------------------------------------------

---

**Description**

Transfer a vector to odds into correct parlay odds

**Usage**

```
odds.parlay(..., input = "us", output = "us")
```

**Arguments**

...                    Odds of the format defined in input

input                  Default to US Odds. Valid selections are "us" for US odds, "prob" for Probability, "dec" for Decimal odds, "malay" for Malaysian odds, "hk" for Hong Kong odds, "indo" for Indonesian odds

output                 Default to US Odds. Valid selections are "us" for US odds, "prob" for Probability, "dec" for Decimal odds, "malay" for Malaysian odds, "hk" for Hong Kong odds, "indo" for Indonesian odds

**Value**

Parlay odds in desired odds format

**Examples**

```
odds.parlay(c(-105,-110),output="dec")
```

---

odds.prob2all	<i>Convert Probabilities to to all other formats</i>
---------------	------------------------------------------------------

---

**Description**

Convert Probabilities to to all other formats

**Usage**

```
odds.prob2all(x)
```

**Arguments**

x                    A vector of Probabilities

**Value**

A data.frame

**Examples**

```
odds.prob2all(c(0.5,0.6))
```

---

odds.prob2dec	<i>Convert Probabilities to Decimal odds</i>
---------------	----------------------------------------------

---

**Description**

Convert Probabilities to Decimal odds

**Usage**

```
odds.prob2dec(x)
```

**Arguments**

x                    A vector of Probabilities

**Value**

A vector of Decimal odds

**Examples**

```
odds.prob2dec(c(0.5, 0.6))
```

---

odds.prob2hk                      *Convert Probabilities to Hong Kong odds*

---

**Description**

Convert Probabilities to Hong Kong odds

**Usage**

```
odds.prob2hk(x)
```

**Arguments**

x                      A vector of Probabilities

**Value**

A vector of Hong Kong odds

**Examples**

```
odds.prob2hk(c(0.5, 0.6))
```

---

odds.prob2indo                      *Convert Probabilities to Indonesian odds*

---

**Description**

Convert Probabilities to Indonesian odds

**Usage**

```
odds.prob2indo(x)
```

**Arguments**

x                      A vector of Probabilities

**Value**

A vector of Indonesian odds

**Examples**

```
odds.prob2indo(c(0.5,0.6))
```

---

odds.prob2malay	<i>Convert Probabilities to Malaysian odds</i>
-----------------	------------------------------------------------

---

**Description**

Convert Probabilities to Malaysian odds

**Usage**

```
odds.prob2malay(x)
```

**Arguments**

x                    A vector of Probabilities

**Value**

A vector of Malaysian odds

**Examples**

```
odds.prob2malay(c(0.5,0.6))
```

---

odds.prob2us	<i>Convert Probabilities to US odds</i>
--------------	-----------------------------------------

---

**Description**

Convert Probabilities to US odds

**Usage**

```
odds.prob2us(x)
```

**Arguments**

x                    A vector of Probabilities

**Value**

A vector of US odds

**Examples**

```
odds.prob2us(c(0.5, 0.6))
```

---

odds.us2all	<i>Convert US Odds to all other formats</i>
-------------	---------------------------------------------

---

**Description**

Convert US Odds to all other formats

**Usage**

```
odds.us2all(x)
```

**Arguments**

x                    A vector of US odds

**Value**

A data.frame

**Examples**

```
odds.us2all(c(-200, 105))
```

---

odds.us2dec	<i>Convert US odds to Decimal odds</i>
-------------	----------------------------------------

---

**Description**

Convert US odds to Decimal odds

**Usage**

```
odds.us2dec(x)
```

**Arguments**

x                    A vector of US odds

**Value**

A vector of Decimal odds

**Examples**

```
odds.us2dec(c(-200,150))
```

---

odds.us2hk	<i>Convert US odds to Hong Kong odds</i>
------------	------------------------------------------

---

**Description**

Convert US odds to Hong Kong odds

**Usage**

```
odds.us2hk(x)
```

**Arguments**

x                    A vector of US odds

**Value**

A vector of Hong Kong odds

**Examples**

```
odds.us2hk(c(-200,150))
```

---

odds.us2indo	<i>Convert US odds to Indonesian odds</i>
--------------	-------------------------------------------

---

**Description**

Convert US odds to Indonesian odds

**Usage**

```
odds.us2indo(x)
```

**Arguments**

x                    A vector of US odds

**Value**

A vector of Indonesian odds

**Examples**

```
odds.us2indo(c(-200,150))
```

---

odds.us2malay                      *Convert US odds to Malaysian odds*

---

**Description**

Convert US odds to Malaysian odds

**Usage**

```
odds.us2malay(x)
```

**Arguments**

x                      A vector of US odds

**Value**

A vector of Malaysian odds

**Examples**

```
odds.us2malay(c(-200,150))
```

---

odds.us2prob                      *Convert US odds to Probabilities*

---

**Description**

Convert US odds to Probabilities

**Usage**

```
odds.us2prob(x)
```

**Arguments**

x                      A vector of US odds

**Value**

A vector of Probabilities

**Examples**

```
odds.us2prob(c(-200, 150))
```

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