



Ocumentation

Overview

Package unicode provides data and functions to test some properties of Unicode code points.

► Example (Is)

Index

Constants

Variables

func In(r rune, ranges ...*RangeTable) bool

func Is(rangeTab *RangeTable, r rune) bool

func IsControl(r rune) bool

func IsDigit(r rune) bool

func IsGraphic(r rune) bool

func IsLetter(r rune) bool

func IsLower(r rune) bool

func IsMark(r rune) bool

func IsNumber(r rune) bool

func IsOneOf(ranges []*RangeTable, r rune) bool

func IsPrint(r rune) bool

func IsPunct(r rune) bool

func IsSpace(r rune) bool

func IsSymbol(r rune) bool

```
func IsTitle(r rune) bool
func IsUpper(r rune) bool
func SimpleFold(r rune) rune
func To( case int, r rune) rune
func ToLower(r rune) rune
func ToTitle(r rune) rune
func ToUpper(r rune) rune
type CaseRange
type Range16
type Range32
type RangeTable
type SpecialCase
    func (special SpecialCase) ToLower(r rune) rune
    func (special SpecialCase) ToTitle(r rune) rune
    func (special SpecialCase) ToUpper(r rune) rune
Bugs
```

Examples

Package (Is)

IsDigit

IsLetter

IsLower

IsNumber

IsSpace

IsTitle

IsUpper

SimpleFold

SpecialCase

To

ToLower

ToTitle

ToUpper

Constants

```
const (
    UpperCase = iota
    LowerCase
```

```
TitleCase
MaxCase
)
```

Indices into the Delta arrays inside CaseRanges for case mapping.

```
const (
    UpperLower = MaxRune + 1 // (Cannot be a valid delta.)
)
```

If the Delta field of a CaseRange is UpperLower, it means this CaseRange represents a sequence of the form (say) Upper Lower Upper Lower.

```
const Version = "13.0.0"
```

Version is the Unicode edition from which the tables are derived.

Variables

```
View Source
var (
   Cc
           = _Cc // Cc is the set of Unicode characters in category Cc (Other, control)
           = _Cf // Cf is the set of Unicode characters in category Cf (Other, format).
    Cf
           = _Co // Co is the set of Unicode characters in category Co (Other, private
    Co
    Cs
           = _Cs // Cs is the set of Unicode characters in category Cs (Other, surrogate
          = _Nd // Digit is the set of Unicode characters with the "decimal digit" pro
   Digit
           = _Nd // Nd is the set of Unicode characters in category Nd (Number, decimal
    Letter = _{L} // Letter/L is the set of Unicode letters, category L.
    L
           = _L
           = _Lm // Lm is the set of Unicode characters in category Lm (Letter, modifie
    Lm
           = _Lo // Lo is the set of Unicode characters in category Lo (Letter, other).
    Lower = _{Ll} // Lower is the set of Unicode lower case letters.
           = _Ll // Ll is the set of Unicode characters in category Ll (Letter, lowerca
    Ll
           = _M // Mark/M is the set of Unicode mark characters, category M.
    Mark
           = M
    Μ
    Mc
           = _Mc // Mc is the set of Unicode characters in category Mc (Mark, spacing c
    Me
           = _Me // Me is the set of Unicode characters in category Me (Mark, enclosing
           = _Mn // Mn is the set of Unicode characters in category Mn (Mark, nonspacin
    Mn
           = _Nl // Nl is the set of Unicode characters in category Nl (Number, letter)
    Nl
           = _No // No is the set of Unicode characters in category No (Number, other).
    No
   Number = _N // Number/N is the set of Unicode number characters, category N.
   N
           = N
   Other = _{\rm C} // Other/C is the set of Unicode control and special characters, categor
           = _Pc // Pc is the set of Unicode characters in category Pc (Punctuation, co
   PC
           = _Pd // Pd is the set of Unicode characters in category Pd (Punctuation, da
    Pd
           = _Pe // Pe is the set of Unicode characters in category Pe (Punctuation, cl
    Pe
           = _Pf // Pf is the set of Unicode characters in category Pf (Punctuation, file
    Pf
    Ρi
           = _Pi // Pi is the set of Unicode characters in category Pi (Punctuation, in
```

```
Po
           = _Po // Po is the set of Unicode characters in category Po (Punctuation, ot
           = _Ps // Ps is the set of Unicode characters in category Ps (Punctuation, open
   Ps
   Punct = _P // Punct/P is the set of Unicode punctuation characters, category P.
   Ρ
           = _P
   Sc
           = _Sc // Sc is the set of Unicode characters in category Sc (Symbol, currence
           = _Sk // Sk is the set of Unicode characters in category Sk (Symbol, modifie
   Sk
           = _Sm // Sm is the set of Unicode characters in category Sm (Symbol, math).
   Sm
           = _So // So is the set of Unicode characters in category So (Symbol, other).
   So
   Space = _Z // Space/Z is the set of Unicode space characters, category Z.
           = Z
   Symbol = _S // Symbol/S is the set of Unicode symbol characters, category S.
           = _S
   Title = _{\text{Lt}} // Title is the set of Unicode title case letters.
           = _Lt // Lt is the set of Unicode characters in category Lt (Letter, titleca
   Upper = _{Lu} // Upper is the set of Unicode upper case letters.
           = _Lu // Lu is the set of Unicode characters in category Lu (Letter, upperca
   Lu
   Zl
           = _Zl // Zl is the set of Unicode characters in category Zl (Separator, line
   Zp
           = _Zp // Zp is the set of Unicode characters in category Zp (Separator, para
   Zs
           = _Zs // Zs is the set of Unicode characters in category Zs (Separator, space
)
```

These variables have type *RangeTable.

```
View Source
var (
    Adlam
                           = Adlam
                                                      // Adlam is the set of Unicode cha
                           = _Ahom
                                                      // Ahom is the set of Unicode chara
    Ahom
    Anatolian_Hieroglyphs = _Anatolian_Hieroglyphs // Anatolian_Hieroglyphs is the se
                           = _Arabic
                                                      // Arabic is the set of Unicode cha
    Arabic
    Armenian
                           = _Armenian
                                                      // Armenian is the set of Unicode (
    Avestan
                           = Avestan
                                                      // Avestan is the set of Unicode cl
                           = _Balinese
                                                      // Balinese is the set of Unicode
    Balinese
                           = Bamum
                                                      // Bamum is the set of Unicode cha
    Bamum
                           = _Bassa_Vah
                                                      // Bassa_Vah is the set of Unicode
    Bassa_Vah
                           = _Batak
                                                      // Batak is the set of Unicode cha
    Batak
    Bengali
                           = _Bengali
                                                      // Bengali is the set of Unicode cl
    Bhaiksuki
                           = _Bhaiksuki
                                                      // Bhaiksuki is the set of Unicode
                                                      // Bopomofo is the set of Unicode
    Bopomofo
                           = _Bopomofo
    Brahmi
                           = _Brahmi
                                                      // Brahmi is the set of Unicode cha
    Braille
                           = _Braille
                                                      // Braille is the set of Unicode cl
    Buginese
                           = _Buginese
                                                      // Buginese is the set of Unicode
                           = _Buhid
                                                      // Buhid is the set of Unicode cha
    Buhid
                                                      // Canadian_Aboriginal is the set
    Canadian_Aboriginal
                           = _Canadian_Aboriginal
                                                      // Carian is the set of Unicode cha
    Carian
                           = Carian
                                                      // Caucasian_Albanian is the set of
    Caucasian_Albanian
                           = _Caucasian_Albanian
    Chakma
                           = _Chakma
                                                      // Chakma is the set of Unicode cha
                                                      // Cham is the set of Unicode chara
    Cham
                           = _Cham
    Cherokee
                           = _Cherokee
                                                      // Cherokee is the set of Unicode (
                                                      // Chorasmian is the set of Unicode
    Chorasmian
                           = _Chorasmian
                           = _Common
                                                      // Common is the set of Unicode cha
    Common
    Coptic
                           = _Coptic
                                                      // Coptic is the set of Unicode cha
                                                      // Cuneiform is the set of Unicode
    Cuneiform
                           = _Cuneiform
```

Cypriot	=	_Cypriot	//	Cypriot is the set of Unicode c
Cyrillic		_Cyrillic		Cyrillic is the set of Unicode
Deseret	=	_Deseret	//	Deseret is the set of Unicode cl
Devanagari	=	_Devanagari	//	Devanagari is the set of Unicode
Dives_Akuru		_Dives_Akuru	//	Dives_Akuru is the set of Unico
 Dogra		Dogra	//	Dogra is the set of Unicode cha
Duployan		Duployan	//	Duployan is the set of Unicode
Egyptian_Hieroglyphs		_Egyptian_Hieroglyphs	//	Egyptian_Hieroglyphs is the set
Elbasan		_Elbasan	//	
Elymaic		_Elymaic	//	Elymaic is the set of Unicode cl
Ethiopic		_Ethiopic	//	
Georgian		_Georgian	//	Georgian is the set of Unicode
Glagolitic		_Glagolitic	//	
Gothic		_Gothic		Gothic is the set of Unicode cha
Grantha		_Grantha		Grantha is the set of Unicode cl
Greek		_Greek		Greek is the set of Unicode cha
Gujarati		_Gujarati	//	
Gunjala_Gondi		_Gunjala_Gondi	//	
Gurmukhi		_Gurmukhi	//	
Han		_Han		Han is the set of Unicode characteristics
Hangul		_Hangul	//	
Hanifi_Rohingya		_Hanifi_Rohingya	//	Hanifi_Rohingya is the set of U
Hanunoo		_Hanunoo		Hanunoo is the set of Unicode cl
Hatran		_Hatran		Hatran is the set of Unicode ch
Hebrew		_Hebrew		Hebrew is the set of Unicode cha
Hiragana		_		Hiragana is the set of Unicode
· ·		_Hiragana		
Imperial_Aramaic Inherited		_Imperial_Aramaic _Inherited	//	Imperial_Aramaic is the set of Inherited is the set of Unicode
·		•		Inscriptional_Pahlavi is the se Inscriptional_Parthian is the se
·		Inscriptional_Partifian		Javanese is the set of Unicode
Javanese Kaithi		_		
		_Kaithi		Kaithi is the set of Unicode ch
Kannada		_Kannada		Kannada is the set of Unicode c
Katakana		_Katakana		Katakana is the set of Unicode
Kayah_Li		_Kayah_Li	//	, =
Kharoshthi		_Kharoshthi		Kharoshthi is the set of Unicod
Khitan_Small_Script		_Khitan_Small_Script		Khitan_Small_Script is the set
Khmer		_Khmer	//	
Khojki		_Khojki		Khojki is the set of Unicode ch
Khudawadi		_Khudawadi		Khudawadi is the set of Unicode
Lao		_Lao		Lao is the set of Unicode charac
Latin		_Latin		Latin is the set of Unicode cha
Lepcha		_Lepcha		Lepcha is the set of Unicode ch
Limbu		_Limbu		Limbu is the set of Unicode cha
Linear_A		_Linear_A		Linear_A is the set of Unicode
Linear_B		_Linear_B		Linear_B is the set of Unicode
Lisu		_Lisu		Lisu is the set of Unicode chara
Lycian		_Lycian		Lycian is the set of Unicode ch
Lydian		_Lydian		Lydian is the set of Unicode ch
Mahajani		_Mahajani	//	J. Company of the com
Makasar		_Makasar	//	
Malayalam		_Malayalam	//	,
Mandaic	=	_Mandaic	//	Mandaic is the set of Unicode c

Manichaean	=	_Manichaean	//	Manichaean is the set of Unicod
Marchen	=	_Marchen	//	Marchen is the set of Unicode cl
Masaram_Gondi	=	_Masaram_Gondi	//	Masaram_Gondi is the set of Uni
Medefaidrin	=	_Medefaidrin	//	Medefaidrin is the set of Unico
Meetei_Mayek	=	_Meetei_Mayek	//	Meetei_Mayek is the set of Unic
Mende_Kikakui		Mende_Kikakui	//	
_ Meroitic_Cursive		 _Meroitic_Cursive	//	Meroitic_Cursive is the set of U
Meroitic_Hieroglyphs		_Meroitic_Hieroglyphs	//	
Miao		_Miao		Miao is the set of Unicode chara
Modi		_Modi		Modi is the set of Unicode chara
Mongolian		_Mongolian	//	
Mro		_Mro		Mro is the set of Unicode charac
Multani		_Multani		Multani is the set of Unicode cl
Myanmar		_Myanmar	//	
Nabataean		_Nabataean	//	
Nandinagari		_Nandinagari	//	
New_Tai_Lue		_New_Tai_Lue	//	
Newa		_Newa		Newa is the set of Unicode chara
Nko		_Nko	//	
Nushu			٠	Nushu is the set of Unicode characteristics with the set of Unicode characteristics wi
		_Nushu	//	
		_Nyiakeng_Puachue_Hmong	//	, 0 0
Ogham		_Ogham	//	3
Ol_Chiki		_Ol_Chiki	//	
Old_Hungarian		_Old_Hungarian	//	
Old_Italic		_Old_Italic		Old_Italic is the set of Unicod
Old_North_Arabian		_Old_North_Arabian		Old_North_Arabian is the set of
Old_Permic		_Old_Permic		Old_Permic is the set of Unicod
Old_Persian		_Old_Persian		Old_Persian is the set of Unico
Old_Sogdian		_Old_Sogdian		Old_Sogdian is the set of Unico
Old_South_Arabian		_Old_South_Arabian		Old_South_Arabian is the set of
Old_Turkic		_Old_Turkic		Old_Turkic is the set of Unicod
Oriya		_Oriya	//	,
Osage		_0sage	//	
Osmanya		_Osmanya		Osmanya is the set of Unicode cl
Pahawh_Hmong		_Pahawh_Hmong	//	_ 3
Palmyrene		_Palmyrene		Palmyrene is the set of Unicode
Pau_Cin_Hau		_Pau_Cin_Hau	//	Pau_Cin_Hau is the set of Unico
Phags_Pa		_Phags_Pa	//	3 =
Phoenician		_Phoenician		Phoenician is the set of Unicod
Psalter_Pahlavi	=	_Psalter_Pahlavi	//	Psalter_Pahlavi is the set of U
Rejang		_Rejang	//	3 9
Runic	=	_Runic	//	Runic is the set of Unicode cha
Samaritan	=	_Samaritan	//	Samaritan is the set of Unicode
Saurashtra	=	_Saurashtra	//	Saurashtra is the set of Unicod
Sharada	=	_Sharada	//	Sharada is the set of Unicode c
Shavian	=	_Shavian	//	Shavian is the set of Unicode c
Siddham	=	_Siddham	//	Siddham is the set of Unicode c
SignWriting	=	_SignWriting	//	SignWriting is the set of Unico
Sinhala	=	_Sinhala	//	Sinhala is the set of Unicode c
Sogdian	=	_Sogdian	//	Sogdian is the set of Unicode c
Sora_Sompeng	=	_Sora_Sompeng	//	Sora_Sompeng is the set of Unic
Soyombo	=	_Soyombo	//	Soyombo is the set of Unicode c
Sundanese	=	_Sundanese	//	Sundanese is the set of Unicode

```
Syloti_Nagri
                           = _Syloti_Nagri
                                                      // Syloti_Nagri is the set of Unice
                                                      // Syriac is the set of Unicode cha
   Syriac
                           = _Syriac
                                                      // Tagalog is the set of Unicode cl
   Tagalog
                           = _Tagalog
   Tagbanwa
                           = _Tagbanwa
                                                      // Tagbanwa is the set of Unicode
   Tai_Le
                           = _Tai_Le
                                                      // Tai_Le is the set of Unicode cha
                                                      // Tai_Tham is the set of Unicode
   Tai_Tham
                           = _Tai_Tham
   Tai_Viet
                           = _Tai_Viet
                                                      // Tai_Viet is the set of Unicode
                           = _Takri
                                                      // Takri is the set of Unicode cha
   Takri
   Tamil
                           = _Tamil
                                                      // Tamil is the set of Unicode cha
                                                      // Tangut is the set of Unicode cha
   Tangut
                           = _Tangut
                                                      // Telugu is the set of Unicode cha
   Telugu
                           = _Telugu
   Thaana
                           = _Thaana
                                                      // Thaana is the set of Unicode cha
                           = _Thai
                                                      // Thai is the set of Unicode chara
   Thai
                                                      // Tibetan is the set of Unicode cl
   Tibetan
                           = _Tibetan
   Tifinagh
                           = Tifinagh
                                                      // Tifinagh is the set of Unicode
   Tirhuta
                           = _Tirhuta
                                                      // Tirhuta is the set of Unicode cl
   Ugaritic
                           = _Ugaritic
                                                      // Ugaritic is the set of Unicode
                           = _Vai
                                                      // Vai is the set of Unicode charac
   Vai
                           = Wancho
                                                      // Wancho is the set of Unicode cha
   Wancho
                           = _Warang_Citi
                                                      // Warang_Citi is the set of Unico
   Warang_Citi
   Yezidi
                           = _Yezidi
                                                      // Yezidi is the set of Unicode cha
                           = _Yi
                                                      // Yi is the set of Unicode charac
   Υi
                                                      // Zanabazar_Square is the set of I
   Zanabazar_Square
                           = _Zanabazar_Square
)
```

These variables have type *RangeTable.

```
View Source
var (
           ASCII_Hex_Digit
                                                                                                                   = _ASCII_Hex_Digit
                                                                                                                                                                                                                                   // ASCII_H
           Bidi_Control
                                                                                                                   = _Bidi_Control
                                                                                                                                                                                                                                   // Bidi Col
           Dash
                                                                                                                   = _Dash
                                                                                                                                                                                                                                   // Dash is
                                                                                                                                                                                                                                   // Depreca
           Deprecated
                                                                                                                   = _Deprecated
                                                                                                                   = _Diacritic
                                                                                                                                                                                                                                    // Diacrit
           Diacritic
           Extender
                                                                                                                   = _Extender
                                                                                                                                                                                                                                   // Extende
           Hex_Digit
                                                                                                                   = _Hex_Digit
                                                                                                                                                                                                                                   // Hex_Dig:
                                                                                                                   = _Hyphen
                                                                                                                                                                                                                                   // Hyphen
           Hyphen
                                                                                                                                                                                                                                   // IDS_Bina
           IDS_Binary_Operator
                                                                                                                  = _IDS_Binary_Operator
                                                                                                                   = _IDS_Trinary_Operator
                                                                                                                                                                                                                                   // IDS_Tri
            IDS_Trinary_Operator
                                                                                                                   = _Ideographic
                                                                                                                                                                                                                                   // Ideogra
            Ideographic
            Join_Control
                                                                                                                  = _Join_Control
                                                                                                                                                                                                                                   // Join_Col
            Logical_Order_Exception
                                                                                                                  = _Logical_Order_Exception
                                                                                                                                                                                                                                   // Logical
                                                                                                                                                                                                                                   // Nonchara
           Noncharacter_Code_Point
                                                                                                                  = _Noncharacter_Code_Point
                                                                                                                                                                                                                                    // Other A
           Other_Alphabetic
                                                                                                                   = _Other_Alphabetic
           Other_Default_Ignorable_Code_Point = _Other_Default_Ignorable_Code_Point // Other_Default_Ignorable_Code_Point // Other_Default_Ignorable_Code_Poi
           Other_Grapheme_Extend
                                                                                                                  = _Other_Grapheme_Extend
                                                                                                                                                                                                                                  // Other_G
           Other_ID_Continue
                                                                                                                   = _Other_ID_Continue
                                                                                                                                                                                                                                   // Other_I
           Other_ID_Start
                                                                                                                   = _Other_ID_Start
                                                                                                                                                                                                                                   // Other_I
           Other_Lowercase
                                                                                                                   = _Other_Lowercase
                                                                                                                                                                                                                                   // Other_L
           Other_Math
                                                                                                                   = _Other_Math
                                                                                                                                                                                                                                   // Other_Ma
           Other_Uppercase
                                                                                                                   = _Other_Uppercase
                                                                                                                                                                                                                                   // Other_U
           Pattern_Syntax
                                                                                                                   = _Pattern_Syntax
                                                                                                                                                                                                                                    // Pattern
```

```
Pattern_White_Space
                                        = _Pattern_White_Space
                                                                               // Pattern
   Prepended_Concatenation_Mark
                                       = _Prepended_Concatenation_Mark
                                                                               // Prepende
                                        = _Quotation_Mark
   Quotation_Mark
                                                                               // Quotation
   Radical
                                        = _Radical
                                                                               // Radical
   Regional_Indicator
                                        = _Regional_Indicator
                                                                               // Regional
                                        = _Sentence_Terminal
                                                                               // STerm is
   STerm
   Sentence_Terminal
                                        = _Sentence_Terminal
                                                                               // Sentence
                                        = _Soft_Dotted
   Soft_Dotted
                                                                               // Soft_Do
   Terminal_Punctuation
                                       = _Terminal_Punctuation
                                                                               // Terminal
   Unified_Ideograph
                                       = _Unified_Ideograph
                                                                               // Unified
                                                                               // Variation
   Variation_Selector
                                       = _Variation_Selector
   White_Space
                                        = _White_Space
                                                                               // White_S
)
```

These variables have type *RangeTable.

```
var CaseRanges = _CaseRanges
```

CaseRanges is the table describing case mappings for all letters with non-self mappings.

```
View Source
var Categories = map[string]*RangeTable{
    "C": C,
    "Cc": Cc,
    "Cf": Cf,
    "Co": Co,
    "Cs": Cs,
    "L": L,
    "L1": L1,
    "Lm": Lm,
    "Lo": Lo,
    "Lt": Lt,
    "Lu": Lu,
    "M": M,
    "Mc": Mc,
    "Me": Me,
    "Mn": Mn,
    "N": N,
    "Nd": Nd,
    "N1": N1,
    "No": No,
    "P": P,
    "Pc": Pc,
    "Pd": Pd,
    "Pe": Pe,
    "Pf": Pf,
    "Pi": Pi,
    "Po": Po,
    "Ps": Ps,
    "S": S,
    "Sc": Sc,
```

```
"Sk": Sk,
"Sm": Sm,
"So": So,
"Z": Z,
"Z1": Z1,
"Zp": Zp,
"Zs": Zs,
```

Categories is the set of Unicode category tables.

```
var FoldCategory = map[string]*RangeTable{
    "L": foldL,
    "L1": foldLl,
    "Lt": foldLt,
    "Lu": foldLu,
    "M": foldMn,
    "Mn": foldMn,
}
```

FoldCategory maps a category name to a table of code points outside the category that are equivalent under simple case folding to code points inside the category. If there is no entry for a category name, there are no such points.

```
var FoldScript = map[string]*RangeTable{
    "Common": foldCommon,
    "Greek": foldGreek,
    "Inherited": foldInherited,
}
```

FoldScript maps a script name to a table of code points outside the script that are equivalent under simple case folding to code points inside the script. If there is no entry for a script name, there are no such points.

```
var GraphicRanges = []*RangeTable{
   L, M, N, P, S, Zs,
}
```

GraphicRanges defines the set of graphic characters according to Unicode.

```
var PrintRanges = []*RangeTable{
   L, M, N, P, S,
}
```

PrintRanges defines the set of printable characters according to Go. ASCII space, U+0020, is handled separately.

```
View Source
var Properties = map[string]*RangeTable{
    "ASCII_Hex_Digit":
                                            ASCII_Hex_Digit,
    "Bidi_Control":
                                            Bidi_Control,
    "Dash":
                                            Dash,
    "Deprecated":
                                            Deprecated,
    "Diacritic":
                                            Diacritic,
    "Extender":
                                            Extender,
    "Hex_Digit":
                                            Hex_Digit,
                                            Hyphen,
    "Hyphen":
    "IDS_Binary_Operator":
                                            IDS_Binary_Operator,
    "IDS_Trinary_Operator":
                                            IDS_Trinary_Operator,
    "Ideographic":
                                            Ideographic,
    "Join_Control":
                                            Join_Control,
    "Logical_Order_Exception":
                                            Logical_Order_Exception,
    "Noncharacter_Code_Point":
                                            Noncharacter_Code_Point,
    "Other_Alphabetic":
                                            Other_Alphabetic,
    "Other_Default_Ignorable_Code_Point": Other_Default_Ignorable_Code_Point,
    "Other_Grapheme_Extend":
                                            Other_Grapheme_Extend,
    "Other_ID_Continue":
                                            Other_ID_Continue,
    "Other ID Start":
                                            Other_ID_Start,
    "Other_Lowercase":
                                            Other_Lowercase,
    "Other_Math":
                                            Other_Math,
    "Other_Uppercase":
                                            Other_Uppercase,
    "Pattern_Syntax":
                                            Pattern_Syntax,
    "Pattern_White_Space":
                                            Pattern_White_Space,
    "Prepended_Concatenation_Mark":
                                            Prepended_Concatenation_Mark,
    "Quotation_Mark":
                                            Quotation_Mark,
    "Radical":
                                            Radical,
    "Regional_Indicator":
                                            Regional_Indicator,
    "Sentence_Terminal":
                                            Sentence_Terminal,
    "STerm":
                                            Sentence_Terminal,
    "Soft Dotted":
                                            Soft_Dotted,
    "Terminal_Punctuation":
                                            Terminal_Punctuation,
    "Unified_Ideograph":
                                            Unified_Ideograph,
    "Variation_Selector":
                                            Variation_Selector,
    "White_Space":
                                            White_Space,
}
```

Properties is the set of Unicode property tables.

```
var Scripts = map[string]*RangeTable{}/* 156 elements not displayed */
```

Scripts is the set of Unicode script tables.

Functions

func In added in go1.2

```
func In(r rune, ranges ...*RangeTable) bool
```

In reports whether the rune is a member of one of the ranges.

func Is

```
func Is(rangeTab *RangeTable, r rune) bool
```

Is reports whether the rune is in the specified table of ranges.

func IsControl

```
func IsControl(r rune) bool
```

IsControl reports whether the rune is a control character. The C (Other) Unicode category includes more code points such as surrogates; use Is(C, r) to test for them.

func IsDigit

```
func IsDigit(r rune) bool
```

IsDigit reports whether the rune is a decimal digit.

Example

func IsGraphic

```
func IsGraphic(r rune) bool
```

IsGraphic reports whether the rune is defined as a Graphic by Unicode. Such characters include letters, marks, numbers, punctuation, symbols, and spaces, from categories L, M, N, P, S, Zs.

func IsLetter

```
func IsLetter(r rune) bool
```

IsLetter reports whether the rune is a letter (category L).

Example

func IsLower

```
func IsLower(r rune) bool
```

IsLower reports whether the rune is a lower case letter.

Example

func IsMark

```
func IsMark(r rune) bool
```

IsMark reports whether the rune is a mark character (category M).

func IsNumber

```
func IsNumber(r rune) bool
```

IsNumber reports whether the rune is a number (category N).

▶ Example

func IsOneOf

```
func IsOneOf(ranges []*RangeTable, r rune) bool
```

IsOneOf reports whether the rune is a member of one of the ranges. The function "In" provides a nicer signature and should be used in preference to IsOneOf.

func IsPrint

```
func IsPrint(r rune) bool
```

IsPrint reports whether the rune is defined as printable by Go. Such characters include letters, marks, numbers, punctuation, symbols, and the ASCII space character, from categories L, M, N, P, S and the ASCII space character. This categorization is the same as IsGraphic except that the only spacing character is ASCII space, U+0020.

func IsPunct

```
func IsPunct(r rune) bool
```

IsPunct reports whether the rune is a Unicode punctuation character (category P).

func IsSpace

```
func IsSpace(r rune) bool
```

IsSpace reports whether the rune is a space character as defined by Unicode's White Space property; in the Latin-1 space this is

```
'\t', '\n', '\v', '\f', '\r', ' ', U+0085 (NEL), U+00A0 (NBSP).
```

Other definitions of spacing characters are set by category Z and property Pattern White Space.

▶ Example

func IsSymbol

```
func IsSymbol(r rune) bool
```

IsSymbol reports whether the rune is a symbolic character.

func IsTitle

```
func IsTitle(r rune) bool
```

IsTitle reports whether the rune is a title case letter.

▶ Example

func IsUpper

```
func IsUpper(r rune) bool
```

IsUpper reports whether the rune is an upper case letter.

Example

func SimpleFold

```
func SimpleFold(r rune) rune
```

SimpleFold iterates over Unicode code points equivalent under the Unicode-defined simple case folding. Among the code points equivalent to rune (including rune itself), SimpleFold returns the smallest rune > r if one exists, or else the smallest rune >= 0. If r is not a valid Unicode code point, SimpleFold(r) returns r.

For example:

```
SimpleFold('A') = 'a'
SimpleFold('a') = 'A'

SimpleFold('K') = 'k'
SimpleFold('k') = '\u212A' (Kelvin symbol, K)
SimpleFold('\u212A') = 'K'
SimpleFold('\u212A') = 'I'
```

```
SimpleFold(-2) = -2
```

Example

func To

```
func To(_case int, r rune) rune
```

To maps the rune to the specified case: UpperCase, LowerCase, or TitleCase.

▶ Example

func ToLower

```
func ToLower(r rune) rune
```

ToLower maps the rune to lower case.

Example

func ToTitle

```
func ToTitle(r rune) rune
```

To Title maps the rune to title case.

▶ Example

func ToUpper

```
func ToUpper(r rune) rune
```

ToUpper maps the rune to upper case.

▶ Example

Types

type CaseRange

```
type CaseRange struct {
   Lo    uint32
   Hi    uint32
```

```
Delta d
}
```

CaseRange represents a range of Unicode code points for simple (one code point to one code point) case conversion. The range runs from Lo to Hi inclusive, with a fixed stride of 1. Deltas are the number to add to the code point to reach the code point for a different case for that character. They may be negative. If zero, it means the character is in the corresponding case. There is a special case representing sequences of alternating corresponding Upper and Lower pairs. It appears with a fixed Delta of

```
{UpperLower, UpperLower}
```

The constant UpperLower has an otherwise impossible delta value.

type Range16

```
type Range16 struct {
   Lo    uint16
   Hi    uint16
   Stride uint16
}
```

Range16 represents of a range of 16-bit Unicode code points. The range runs from Lo to Hi inclusive and has the specified stride.

type Range32

```
type Range32 struct {
   Lo    uint32
   Hi    uint32
   Stride uint32
}
```

Range32 represents of a range of Unicode code points and is used when one or more of the values will not fit in 16 bits. The range runs from Lo to Hi inclusive and has the specified stride. Lo and Hi must always be >= 1<<16.

type RangeTable

```
type RangeTable struct {
   R16    []Range16
   R32    []Range32
   LatinOffset int // number of entries in R16 with Hi <= MaxLatin1
}</pre>
```

RangeTable defines a set of Unicode code points by listing the ranges of code points within the set. The ranges are listed in two slices to save space: a slice of 16-bit ranges and a slice of 32-bit ranges. The two slices must be in sorted order and non-overlapping. Also, R32 should contain only values >= 0x10000 (1<<16).

type SpecialCase

```
type SpecialCase []CaseRange
```

SpecialCase represents language-specific case mappings such as Turkish. Methods of SpecialCase customize (by overriding) the standard mappings.

Example

```
var AzeriCase SpecialCase = _TurkishCase

var TurkishCase SpecialCase = _TurkishCase
```

func (SpecialCase) ToLower

```
func (special SpecialCase) ToLower(r rune) rune
```

ToLower maps the rune to lower case giving priority to the special mapping.

func (SpecialCase) ToTitle

```
func (special SpecialCase) ToTitle(r rune) rune
```

To Title maps the rune to title case giving priority to the special mapping.

func (SpecialCase) ToUpper

```
func (special SpecialCase) ToUpper(r rune) rune
```

ToUpper maps the rune to upper case giving priority to the special mapping.

Notes

Bugs

• There is no mechanism for full case folding, that is, for characters that involve multiple runes in the input or output.

Source Files View all

casetables.go graphic.go tables.go digit.go letter.go

Directories

utf16

Package utf16 implements encoding and decoding of UTF-16 sequences.

utf8

Package utf8 implements functions and constants to support text encoded in UTF-8.

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