

```
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*/
```

```
package pdfqa

import "fmt"
type dist struct {
    w, h int
}

// AspectRatio returns the relation between width and height.
func (d dist) AspectRatio() float64 {
    if d.w < 0 || d.h < 0 {
        return -1.0
    }
    return float64(d.w) / d.h
}

// Landscape returns true if d is in landscape mode.
func (d dist) Landscape() bool {
    return d.AspectRatio() > 1
}

// Portrait returns true if d is in portrait mode.
func (d dist) Portrait() bool {
    return d.AspectRatio() < 1
}

func (d dist) String() string {
    return fmt.Sprintf("%dx%d", d.w, d.h)
}

// PaperSize is a map of basic paper sizes in user units (>72 dpi pixel).
// PaperSize = &dist{w,h}
var PaperSize = map[string]dist{
    // A4 (210 mm)
    "A4P": {210, 297}, // 5.91" x 8.91"
    "A4L": {297, 210}, // 4.91" x 5.78"
    "A4S": {210, 148}, // 8.27" x 5.83"
    "A4M": {297, 148}, // 11.7" x 5.83"
    "A4B": {210, 105}, // 8.27" x 4.13"
    "A4B2": {210, 210}, // 21 x 2.78"
    "A4B3": {148, 210}, // 14.7" x 21.3"
    "A4B4": {148, 105}, // 14.7" x 4.13"
    "A4B5": {105, 210}, // 8.27" x 21.3"
    "A4B6": {105, 148}, // 8.27" x 11.7"
    "A4B7": {105, 105}, // 5.91" x 11.7"

    // A3 (297 mm)
    "A3P": {297, 420}, // 11.7" x 16.5"
    "A3L": {420, 297}, // 16.5" x 11.7"
    "A3S": {297, 257}, // 11.7" x 10.1"
    "A3M": {420, 257}, // 16.5" x 10.1
    "A3B": {297, 184}, // 11.7" x 7.24"
    "A3B2": {297, 297}, // 21 x 2.78"
    "A3B3": {184, 297}, // 14.7" x 21.3
    "A3B4": {184, 184}, // 14.7" x 7.24"
    "A3B5": {184, 257}, // 11.7" x 10.1
    "A3B6": {184, 184}, // 8.27" x 7.24"
    "A3B7": {184, 105}, // 8.27" x 4.13
    "A3B8": {105, 297}, // 5.91" x 21.3

    // A2 (420 mm)
    "A2P": {420, 595}, // 16.5" x 23.6"
    "A2L": {595, 420}, // 23.6" x 16.5"
    "A2S": {420, 483}, // 16.5" x 11.7"
    "A2M": {595, 483}, // 23.6" x 11.7
    "A2B": {420, 364}, // 16.5" x 7.24"
    "A2B2": {420, 595}, // 21 x 2.78"
    "A2B3": {364, 595}, // 14.7" x 21.3
    "A2B4": {364, 364}, // 14.7" x 7.24"
    "A2B5": {364, 483}, // 11.7" x 11.7
    "A2B6": {364, 364}, // 8.27" x 11.7
    "A2B7": {364, 105}, // 5.91" x 11.7

    // A1 (595 mm)
    "A1P": {595, 842}, // 23.6" x 33.9"
    "A1L": {842, 595}, // 33.9" x 23.6"
    "A1S": {595, 700}, // 23.6" x 16.5
    "A1M": {842, 700}, // 33.9" x 16.5
    "A1B": {595, 567}, // 23.6" x 7.24
    "A1B2": {595, 842}, // 21 x 2.78"
    "A1B3": {567, 842}, // 14.7" x 21.3
    "A1B4": {567, 567}, // 14.7" x 7.24
    "A1B5": {567, 700}, // 11.7" x 16.5
    "A1B6": {567, 567}, // 8.27" x 16.5
    "A1B7": {567, 105}, // 5.91" x 16.5

    // A0 (842 mm)
    "A0P": {842, 1190}, // 33.9" x 46.9"
    "A0L": {1190, 842}, // 46.9" x 33.9"
    "A0S": {842, 908}, // 33.9" x 23.6
    "A0M": {1190, 908}, // 46.9" x 23.6
    "A0B": {842, 775}, // 33.9" x 7.24
    "A0B2": {842, 1190}, // 21 x 2.78"
    "A0B3": {775, 1190}, // 14.7" x 21.3
    "A0B4": {775, 775}, // 14.7" x 7.24
    "A0B5": {775, 908}, // 11.7" x 16.5
    "A0B6": {775, 775}, // 8.27" x 16.5
    "A0B7": {775, 105}, // 5.91" x 16.5

    // B4 (210 mm)
    "B4P": {210, 280}, // 8.27" x 11.0"
    "B4L": {280, 210}, // 11.0" x 8.27"
    "B4S": {210, 160}, // 8.27" x 6.3
    "B4M": {280, 160}, // 11.0" x 6.3
    "B4B": {210, 110}, // 8.27" x 3.7
    "B4B2": {210, 280}, // 21 x 2.78"
    "B4B3": {110, 280}, // 14.7" x 21.3
    "B4B4": {110, 110}, // 14.7" x 3.7
    "B4B5": {110, 160}, // 11.0" x 6.3
    "B4B6": {110, 110}, // 8.27" x 6.3
    "B4B7": {110, 80}, // 5.91" x 6.3

    // B3 (297 mm)
    "B3P": {297, 350}, // 11.7" x 13.8"
    "B3L": {350, 297}, // 13.8" x 11.7"
    "B3S": {297, 247}, // 11.7" x 9.7
    "B3M": {350, 247}, // 13.8" x 9.7
    "B3B": {297, 197}, // 11.7" x 3.7
    "B3B2": {297, 350}, // 21 x 2.78"
    "B3B3": {197, 350}, // 14.7" x 21.3
    "B3B4": {197, 197}, // 14.7" x 3.7
    "B3B5": {197, 247}, // 11.7" x 9.7
    "B3B6": {197, 197}, // 8.27" x 9.7
    "B3B7": {197, 80}, // 5.91" x 9.7

    // B2 (420 mm)
    "B2P": {420, 420}, // 16.5" x 16.5"
    "B2L": {420, 350}, // 16.5" x 13.8"
    "B2S": {420, 307}, // 16.5" x 9.7
    "B2M": {420, 247}, // 16.5" x 9.7
    "B2B": {420, 197}, // 16.5" x 3.7
    "B2B2": {420, 420}, // 21 x 2.78"
    "B2B3": {197, 420}, // 14.7" x 21.3
    "B2B4": {197, 197}, // 14.7" x 3.7
    "B2B5": {197, 247}, // 11.7" x 9.7
    "B2B6": {197, 197}, // 8.27" x 9.7
    "B2B7": {197, 80}, // 5.91" x 9.7

    // B1 (595 mm)
    "B1P": {595, 500}, // 23.6" x 20.4"
    "B1L": {500, 595}, // 20.4" x 23.6"
    "B1S": {595, 457}, // 23.6" x 16.5
    "B1M": {500, 457}, // 20.4" x 16.5
    "B1B": {595, 407}, // 23.6" x 7.24
    "B1B2": {595, 500}, // 21 x 2.78"
    "B1B3": {407, 500}, // 14.7" x 21.3
    "B1B4": {407, 407}, // 14.7" x 7.24
    "B1B5": {407, 457}, // 11.7" x 16.5
    "B1B6": {407, 407}, // 8.27" x 16.5
    "B1B7": {407, 80}, // 5.91" x 16.5

    // B0 (842 mm)
    "B0P": {842, 567}, // 33.9" x 25.2"
    "B0L": {567, 842}, // 25.2" x 33.9
    "B0S": {842, 524}, // 33.9" x 20.4
    "B0M": {567, 524}, // 25.2" x 20.4
    "B0B": {842, 474}, // 33.9" x 7.24
    "B0B2": {842, 567}, // 21 x 2.78"
    "B0B3": {474, 567}, // 14.7" x 21.3
    "B0B4": {474, 474}, // 14.7" x 7.24
    "B0B5": {474, 524}, // 11.7" x 20.4
    "B0B6": {474, 474}, // 8.27" x 20.4
    "B0B7": {474, 80}, // 5.91" x 20.4

    // A3 (297 mm)
    "A3P2": {297, 400}, // 11.7" x 15.7"
    "A3L2": {400, 297}, // 15.7" x 11.7
    "A3S2": {297, 357}, // 11.7" x 11.7
    "A3M2": {400, 357}, // 15.7" x 11.7
    "A3B2": {297, 257}, // 11.7" x 7.24
    "A3B3": {257, 400}, // 14.7" x 21.3
    "A3B4": {257, 257}, // 14.7" x 7.24
    "A3B5": {257, 357}, // 11.7" x 11.7
    "A3B6": {257, 257}, // 8.27" x 11.7
    "A3B7": {257, 80}, // 5.91" x 11.7

    // A2 (420 mm)
    "A2P2": {420, 467}, // 16.5" x 20.4"
    "A2L2": {467, 420}, // 20.4" x 16.5
    "A2S2": {420, 524}, // 16.5" x 16.5
    "A2M2": {467, 524}, // 20.4" x 16.5
    "A2B2": {420, 407}, // 16.5" x 7.24
    "A2B3": {407, 467}, // 14.7" x 21.3
    "A2B4": {407, 407}, // 14.7" x 7.24
    "A2B5": {407, 524}, // 11.7" x 16.5
    "A2B6": {407, 407}, // 8.27" x 16.5
    "A2B7": {407, 80}, // 5.91" x 16.5

    // A1 (595 mm)
    "A1P2": {595, 534}, // 23.6" x 25.2"
    "A1L2": {534, 595}, // 25.2" x 23.6
    "A1S2": {595, 592}, // 23.6" x 20.4
    "A1M2": {534, 592}, // 25.2" x 20.4
    "A1B2": {595, 492}, // 23.6" x 7.24
    "A1B3": {492, 534}, // 14.7" x 21.3
    "A1B4": {492, 492}, // 14.7" x 7.24
    "A1B5": {492, 592}, // 11.7" x 20.4
    "A1B6": {492, 492}, // 8.27" x 20.4
    "A1B7": {492, 80}, // 5.91" x 20.4

    // A0 (842 mm)
    "A0P2": {842, 601}, // 33.9" x 31.9"
    "A0L2": {601, 842}, // 31.9" x 33.9
    "A0S2": {842, 658}, // 33.9" x 25.2
    "A0M2": {601, 658}, // 31.9" x 25.2
    "A0B2": {842, 558}, // 33.9" x 7.24
    "A0B3": {558, 601}, // 14.7" x 21.3
    "A0B4": {558, 558}, // 14.7" x 7.24
    "A0B5": {558, 658}, // 11.7" x 25.2
    "A0B6": {558, 558}, // 8.27" x 25.2
    "A0B7": {558, 80}, // 5.91" x 25.2
}
```

```
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*/
```

```
package pdfqa
```

```
import "fmt"
type dist struct {
    w, h int
}
```

```
// AspectRatio returns the relation between width and height.
func (d dist) AspectRatio() float64 {
    if d.w < 0 || d.h < 0 {
        return -1.0
    }
    return float64(d.w) / d.h
}
```

```
// Landscape returns true if d is in landscape mode.
func (d dist) Landscape() bool {
    return d.AspectRatio() > 1
}
```

```
// Portrait returns true if d is in portrait mode.
func (d dist) Portrait() bool {
    return d.AspectRatio() < 1
}
```

```
func (d dist) String() string {
    return fmt.Sprintf("%dx%d", d.w, d.h)
}
```

```
// PaperSize is a map of basic paper sizes in user units (>72 dpi pixel).
// PaperSize = &dist{w,h}
var PaperSize = map[string]dist{
    // A4 (210 mm)
    "A4P": {210, 297}, // 5.91" x 8.91"
    "A4L": {297, 210}, // 4.91" x 5.78"
    "A4S": {210, 148}, // 8.27" x 5.83"
    "A4M": {297, 148}, // 11.7" x 5.83"
    "A4B": {210, 105}, // 8.27" x 4.13"
    "A4B2": {210, 210}, // 21 x 2.78"
    "A4B3": {148, 210}, // 14.7" x 21.3
    "A4B4": {148, 105}, // 14.7" x 4.13"
    "A4B5": {148, 148}, // 11.7" x 5.83
    "A4B6": {148, 105}, // 8.27" x 5.83
    "A4B7": {148, 80}, // 5.91" x 5.83

    // A3 (297 mm)
    "A3P": {297, 420}, // 11.7" x 16.5"
    "A3L": {420, 297}, // 16.5" x 11.7"
    "A3S": {297, 357}, // 11.7" x 11.7
    "A3M": {420, 357}, // 16.5" x 11.7
    "A3B": {297, 257}, // 11.7" x 7.24
    "A3B2": {297, 420}, // 21 x 2.78"
    "A3B3": {257, 420}, // 14.7" x 21.3
    "A3B4": {257, 257}, // 14.7" x 7.24
    "A3B5": {257, 357}, // 11.7" x 16.5
    "A3B6": {257, 257}, // 8.27" x 16.5
    "A3B7": {257, 80}, // 5.91" x 16.5

    // A2 (420 mm)
    "A2P": {420, 595}, // 16.5" x 23.6"
    "A2L": {595, 420}, // 23.6" x 16.5
    "A2S": {420, 524}, // 16.5" x 16.5
    "A2M": {595, 524}, // 23.6" x 16.5
    "A2B": {420, 407}, // 16.5" x 7.24
    "A2B2": {420, 595}, // 21 x 2.78"
    "A2B3": {407, 595}, // 14.7" x 21.3
    "A2B4": {407, 407}, // 14.7" x 7.24
    "A2B5": {407, 524}, // 11.7" x 16.5
    "A2B6": {407, 407}, // 8.27" x 16.5
    "A2B7": {407, 80}, // 5.91" x 16.5

    // A1 (595 mm)
    "A1P": {595, 842}, // 23.6" x 46.9"
    "A1L": {842, 595}, // 46.9" x 23.6
    "A1S": {595, 700}, // 23.6" x 23.6
    "A1M": {842, 700}, // 46.9" x 23.6
    "A1B": {595, 567}, // 23.6" x 7.24
    "A1B2": {595, 842}, // 21 x 2.78"
    "A1B3": {567, 842}, // 14.7" x 21.3
    "A1B4": {567, 567}, // 14.7" x 7.24
    "A1B5": {567, 700}, // 11.7" x 23.6
    "A1B6": {567, 567}, // 8.27" x 23.6
    "A1B7": {567, 80}, // 5.91" x 23.6

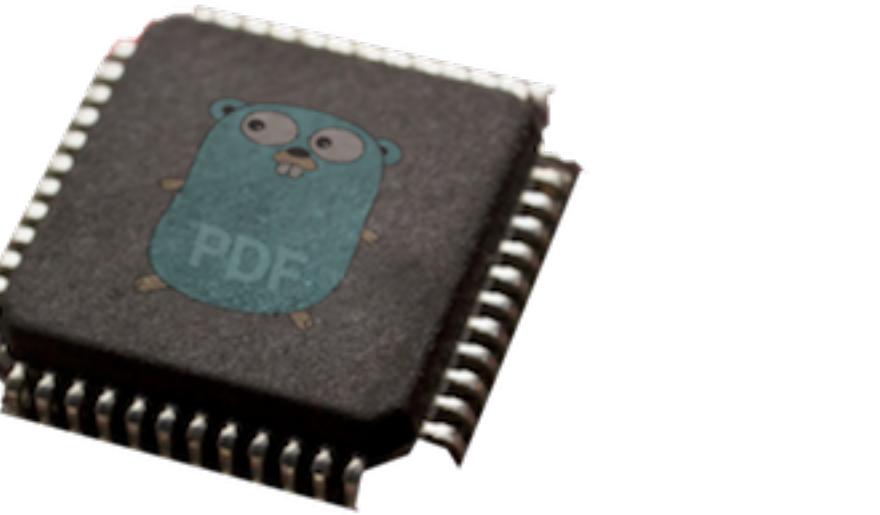
    // A0 (842 mm)
    "A0P": {842, 1190}, // 33.9" x 122.0
    "A0L": {1190, 842}, // 122.0" x 33.9
    "A0S": {842, 908}, // 33.9" x 90.8
    "A0M": {1190, 908}, // 122.0" x 90.8
    "A0B": {842, 775}, // 33.9" x 7.24
    "A0B2": {842, 1190}, // 21 x 2.78"
    "A0B3": {775, 1190}, // 14.7" x 21.3
    "A0B4": {775, 775}, // 14.7" x 7.24
    "A0B5": {775, 908}, // 11.7" x 90.8
    "A0B6": {775, 775}, // 8.27" x 90.8
    "A0B7": {775, 80}, // 5.91" x 90.8
}
```

```
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*/
```

```
package pdfqa
```

Test document 7.B.

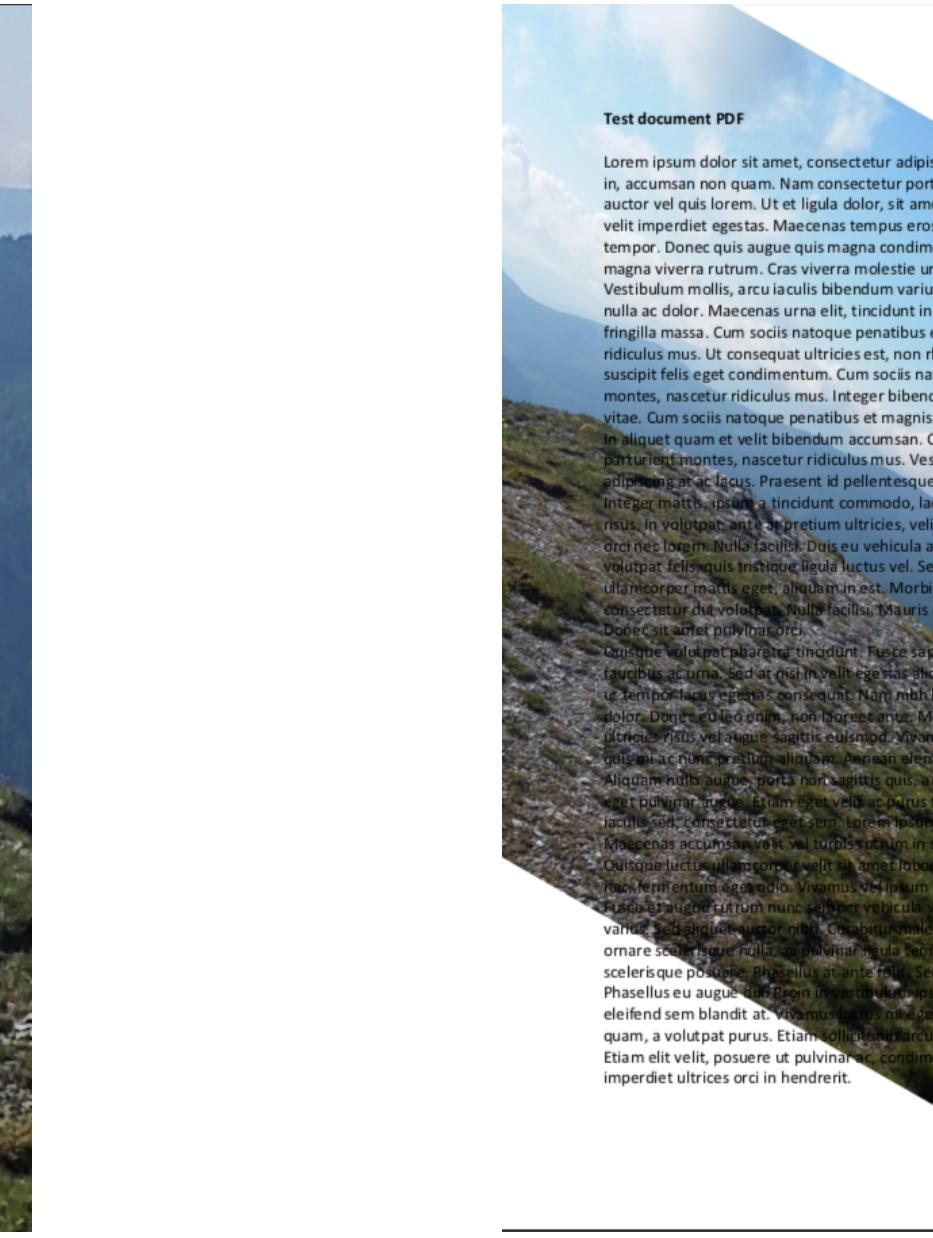
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