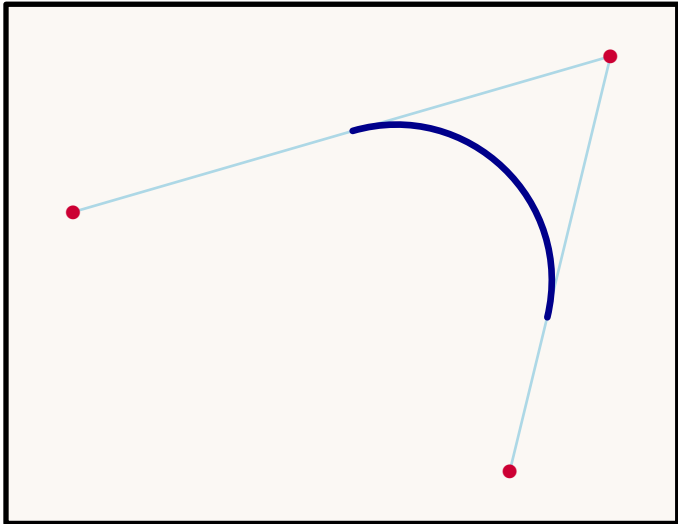
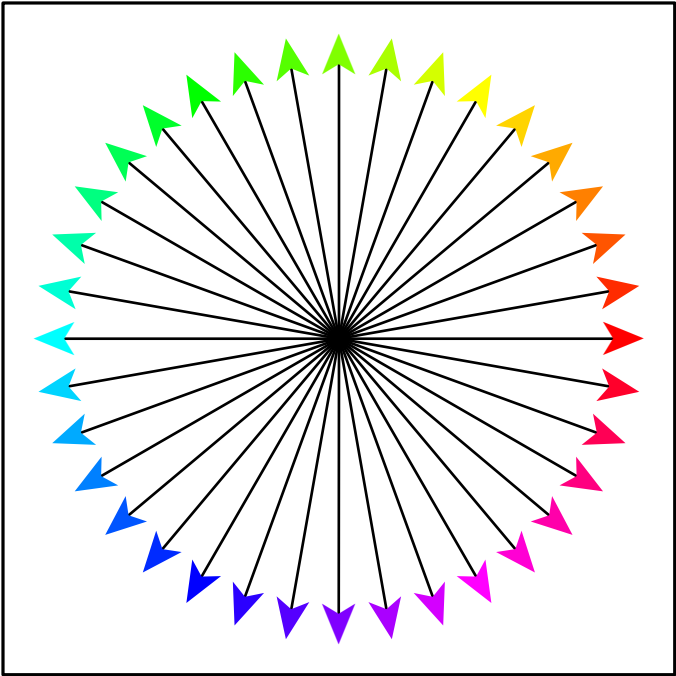
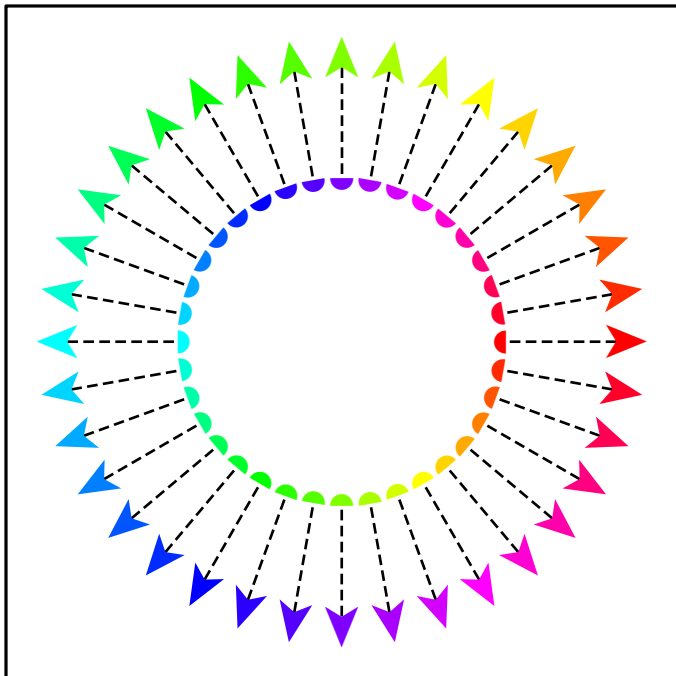
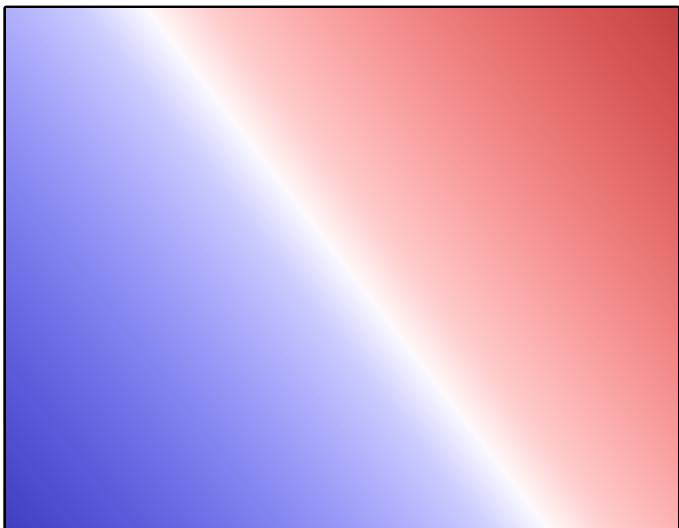


append_arc_to_path









LineCapButt



LineCapRound



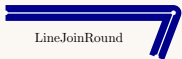
LineCapSquare



LineJoinMiter



LineJoinRound



LineJoinBevel



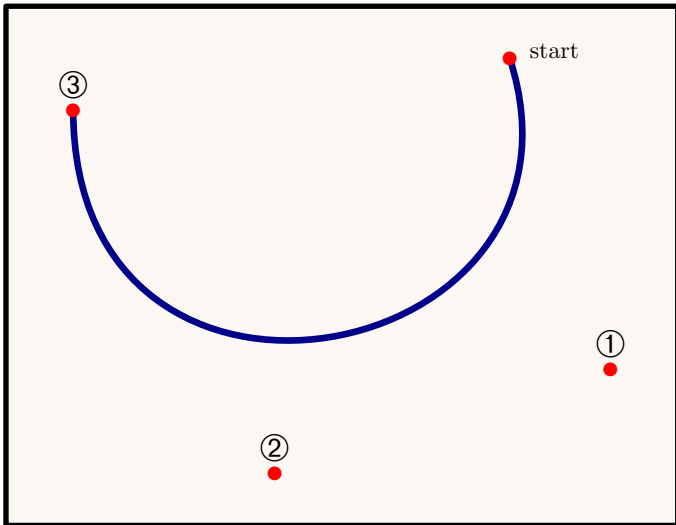
Snow	GhostWhite	MintCream	LavenderBlush	Ivory	Honeydew	FloralWhite
Azure	AliceBlue	Seashell	OldLace	MayRose	Linon	LightYellow
LightCyan	Lavender	Cornsilk	PapayaWhip	Beige	AntiqueWhite	LemonChiffon
BlanchedAlmond	Chiffon	Bisque	Pink	PeachPuff	Moccasin	NavajoWhite
Wheat	PaleTurquoise	PaleGoldenrod	Lilac	LightSandyBrown	LightRose	Thistle
PowderBlue	PaleGreen	LightBlue	LightSteelBlue	LightSkyBlue	Aquamarine	LightGreen
Plum	Khaki	LightSalmon	SkyBlue	Violet	LightCoral	Salmon

HotPink	SoftYellow	SalmonRed	LightCharrose	Rose	PurpleGray	LightPlum
LightOliveGreen	LightMustard	LightGrassGreen	LightDullGreen	DarkPeriwinkle	Cement	BurlyWood
BrightPink	DarkSalmon	Tan	MediumSlateBlue	SandyBrown	CornflowerBlue	Coral
PinkVioletRed	MediumPurple	RoyBrown	DarkSeaGreen	Orchid	Tomato	WarmGray
MediumAquamarine	LightOrchid	LightGold	Pumpkin	LightTurquoise	LavenderBlue	GreenYellow
IndianRed	MediumOrchid	DarkKhaki	SteelBlue	RoyalBlue	Turquoise	DodgerBlue
MediumTurquoise	DeepPink	LightSlateGray	LightSlateGray	BlueViolet	Pers	StateGrey

SteelGray	Yellow	SpringGreen	Saffron	RedBrown	Red	PurpleBlue
Periwinkle	OrangeRed	Orange	MediumOrange	Mauve	Magenta	LimeGreen
Lime	LightYellowGreen	Gold	Fuchsia	DeepSkyBlue	DarkOrange	Cyan
Chartreuse	CadetBlue	BrightBlue	Blue	Aqua	DarkOrchid	LawnGreen
SteelBlue	MediumSpringGreen	Goldrod	LightCrimson	Chocolate	MediumSeaGreen	MediumVioletRed
FireBrick	DarkViolet	LightSeaGreen	DarkTurquoise	Brown	Sienna	MediumBlue
RedOrange	MustardSeed	YellowGreen	LightSienna	LightBrightGreen	DarkRoyalBlue	DarkPurpleBlue

DarkLavender	Crimson	DarkSlateBlue	DarkGoldenrod	SeaGreen	OliveDrab	ForestGreen
BrickRed	SaddleBrown	DarkOliveGreen	RoyalPurple	MediumGreen	GrayBlue	GreenGreen
GoldenBrown	Burgundy	BlueGreen	Avocado	DarkRed	DarkMagenta	DarkCyan
DarkBlue	MidnightBlue	Indigo	Teal	Purple	Olive	Navy
Maroon	Green	DarkSlateGray	DarkSlateGray	DarkChocolate	DarkGreen	Snow
GhostWhite	MintCream	LavenderBlush	Ivory	Honeydew	FloralWhite	Azure
AliceBlue	Seashell	OldLace	MistyRose	Linon	LightYellow	LightCyan

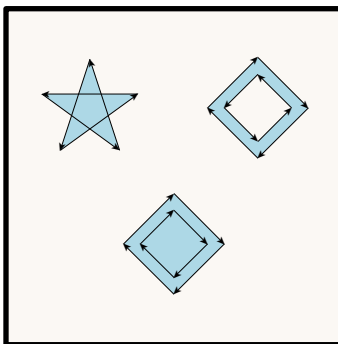
append_curve_to_path



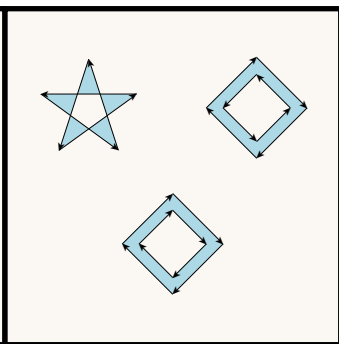
ZapfDingbats Set and Encoding

33		54		75		96		121		176		197		218		239	
34		55		76		97		122		177		198		219		240	
35		56		77		98		123		178		199		220		241	
36		57		78		99		124		179		200		221		242	
37		58		79		100		125		180		201		222		243	
38		59		80		101		161		181		202		223		244	
39		60		81		102		162		182		203		224		245	
40		61		82		103		163		183		204		225		246	
41		62		83		104		164		184		205		226		247	
42		63		84		105		165		185		206		227		248	
43		64		85		106		166		186		207		228		249	
44		65		86		107		167		187		208		229		250	
45		66		87		108		168		188		209		230		251	
46		67		88		109		169		189		210		231		252	
47		68		89		110		170		190		211		232		253	
48		69		90		111		171		191		212		233		254	
49		70		91		112		172		192		213		234			
50		71		92		113		173		193		214		235			
51		72		93		114		174		194		215		236			
52		73		94		115		195		216		217		237			
53		74		95		116		196		217		218		238			

Winding Number Fill Rule



Even-Odd Fill Rule



Examples using `\framebox`

```
\framebox[20em][c]{ a, b, c }
```

```
\framebox[20em][l]{ a, b, c }
```

```
\framebox[20em][r]{ a, b, c }
```

```
\framebox[20em][s]{ a, b, c }
```

PyTioga

Python

PDF

TEX

LineStyleSolid = ((), 0)



LineStyleDot = ((1, 2), 0)



LineStyleDash = ((4, 2), 0)



LineStyleLongDash = ((6, 2), 0)



LineStyleDotDash = ((1, 2, 4, 2), 0)



LineStyleDotLongDash = ((1, 2, 6, 2), 0)



LineStyleShortDashLongDash = ((4, 2, 6, 2), 0)



Marker Ascent Angle

ascent_angle = 0

ascent_angle = -6

ascent_angle = 6

Marker Horizontal Scaling

`horizontal_scale = 1.0`

`horizontal_scale = 1.2`

`horizontal_scale = 0.8`

`horizontal_scale = -1.2`

Marker Italic Angle

`italic_angle = 0`

italic_angle = -12

`italic_angle = 12`

Shadow Effect

Shadow Effect

Marker Vertical Scaling

`vertical_scale = 1.0`

`vertical_scale = 1.2`

`vertical_scale = 0.8`

`vertical_scale = -1.0`

Inline Math Mode

$$\int_{-\infty}^{\infty} e^{-x^2} dx = \sqrt{\pi}$$

$$\int_{-\infty}^{\infty} e^{-x^2} dx = \sqrt{\pi}$$

Display Math Mode

$$\int_{-\infty}^{\infty} e^{-x^2} dx = \sqrt{\pi}$$

$$\int_{-\infty}^{\infty} e^{-x^2} dx = \sqrt{\pi}$$

```
\begin{itemize}...
```

- This is the **first** entry of an itemized list.
- This is the **second**.
- And this is the **third**.

- This is the **first** entry of an itemized list.
- This is the **second**.
- And this is the **third**.

```
... \end{itemize}
```

```
\begin{tabular}...
```

	<i>Name</i>	<i>Code</i>
1	Alice	7
2	Bob	3
3	Charlie	5

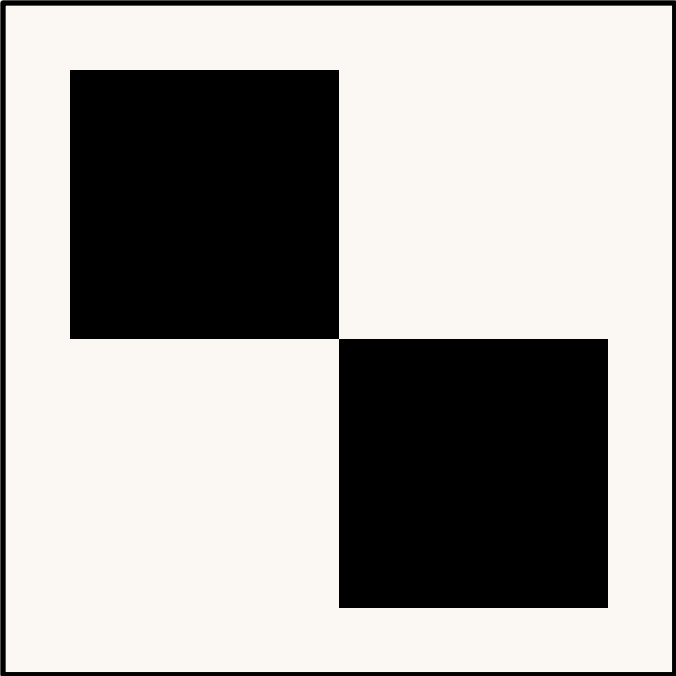
	<i>Name</i>	<i>Code</i>
1	Alice	7
2	Bob	3
3	Charlie	5

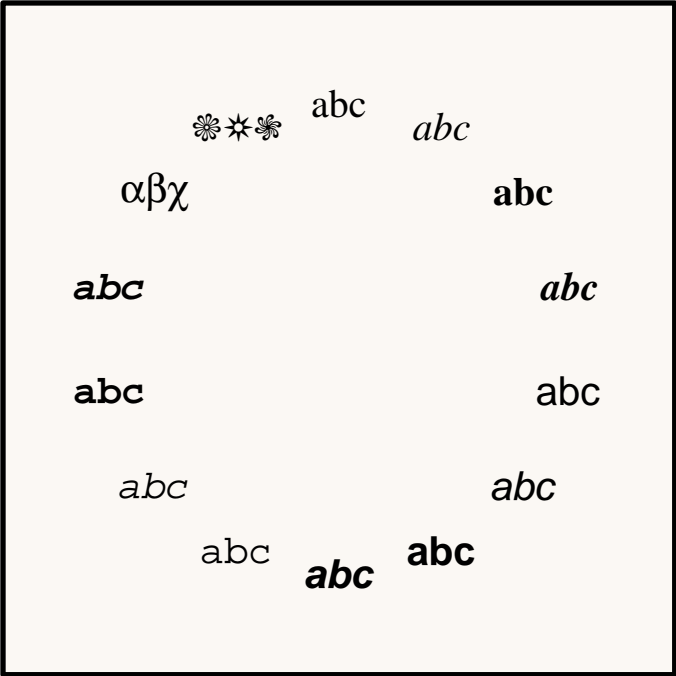
```
... \end{tabular}
```

Examples using paragraph boxes

The `minipage` is a vertical alignment environment with a `specified width`. It can contain paragraphs, lists, tables, and equations. Hyphenation and formatting is automatic.

The `minipage` is a vertical alignment environment with a `specified width`. It can contain paragraphs, lists, tables, and equations. Hyphenation and formatting is automatic.





abc

abc

αβχ

abc

abc

abc

abc

abc

abc

abc

abc

abc

abc

Examples using `extbackslash parbox`

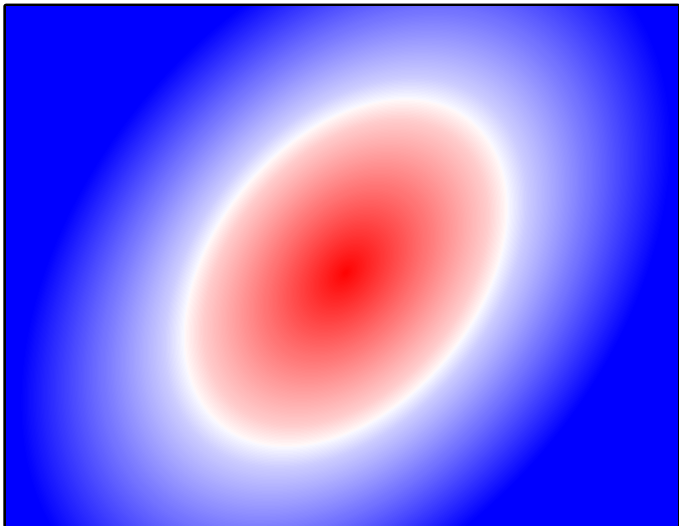
1. `\parbox{20em}{...}`
2. default height and position for list

1. `\parbox[c]{6em}[t]{20em}{...}`
2. position list at top of box

1. `\parbox[c]{6em}[c]{20em}{...}`
2. position list at center of box

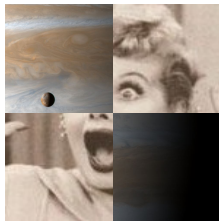
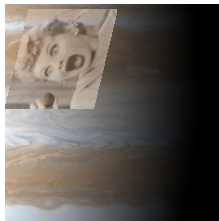
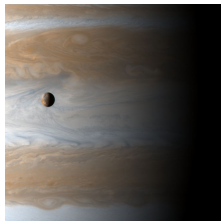
1. `\parbox[c]{6em}[b]{20em}{...}`
2. position list at bottom of box

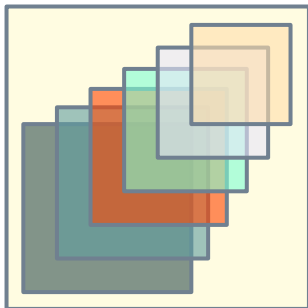
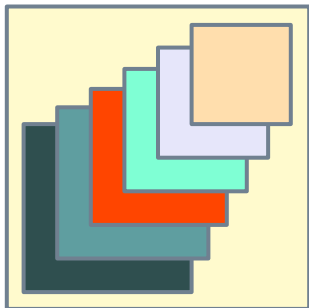
1. `\parbox[c]{6em}[s]{20em}{...}`
2. stretch list vertically to fill box



append_rounded_rect_to_path







$$\int_{-\infty}^{\infty} e^{-x^2} dx = \sqrt{\pi}$$

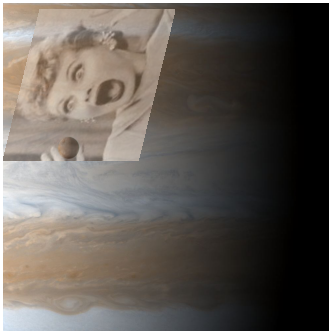
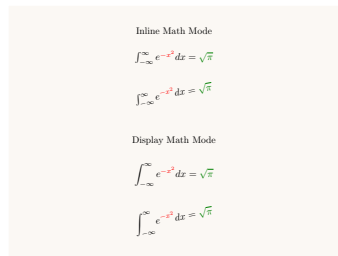
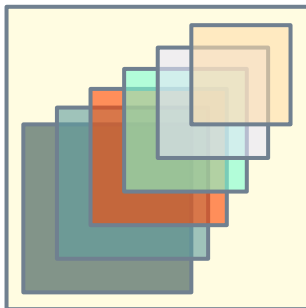
$$\int_{-\infty}^{\infty} e^{-x^2} dx = \sqrt{\pi}$$

$$\int_{-\infty}^{\infty} e^{-x^2} dx = \sqrt{\pi}$$

$$\int_{-\infty}^{\infty} e^{-x^2} dx = \sqrt{\pi}$$

$$\int_{-\infty}^{\infty} e^{-x^2} dx = \sqrt{\pi}$$

$$\int_{-\infty}^{\infty} e^{-x^2} dx = \sqrt{\pi}$$



TeX and PDF Alignment Test Pattern

Left	Center	Right
Left	Center	Right
Left	Center	Right
Left	Center	Right
Left	Center	Right
Left	Center	Right
Left	Center	Right
Left	Center	Right
Left	Center	Right
Left	Center	Right

Check for Proper Registration of Text and Graphics

If needed, adjust by changing `FigureMaker.tex_offset` and `FigureMaker.pdf_offset`.

Text attributes: justification

Right Justified

Centered

Left Justified

Text attributes: alignment

Aligned at bottom

Aligned at baseline

Aligned at mid-height

Aligned at top