| | [**Overview**](http://docs.google.com/index-overview-summary.html) | **Project** | **Class** | [**Tree**](http://docs.google.com/index-overview-tree.html) | [**Deprecated**](http://docs.google.com/index-deprecated-list.html) | **Index** | | --- | --- | --- | --- | --- | --- | | | ***CarnegieMellonGraphics*** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| [**FRAMES**](http://docs.google.com/index.html)    [**NO FRAMES**](http://docs.google.com/index-all.html) |

[A](http://docs.google.com/index-all.html#_A_) [B](http://docs.google.com/index-all.html#_B_) [C](http://docs.google.com/index-all.html#_C_) [D](http://docs.google.com/index-all.html#_D_) [E](http://docs.google.com/index-all.html#_E_) [F](http://docs.google.com/index-all.html#_F_) [G](http://docs.google.com/index-all.html#_G_) [H](http://docs.google.com/index-all.html#_H_) [I](http://docs.google.com/index-all.html#_I_) [J](http://docs.google.com/index-all.html#_J_) [K](http://docs.google.com/index-all.html#_K_) [L](http://docs.google.com/index-all.html#_L_) [M](http://docs.google.com/index-all.html#_M_) [N](http://docs.google.com/index-all.html#_N_) [O](http://docs.google.com/index-all.html#_O_) [P](http://docs.google.com/index-all.html#_P_) [Q](http://docs.google.com/index-all.html#_Q_) [R](http://docs.google.com/index-all.html#_R_) [S](http://docs.google.com/index-all.html#_S_) [T](http://docs.google.com/index-all.html#_T_) [U](http://docs.google.com/index-all.html#_U_) [V](http://docs.google.com/index-all.html#_V_) [W](http://docs.google.com/index-all.html#_W_) [X](http://docs.google.com/index-all.html#_X_) [Y](http://docs.google.com/index-all.html#_Y_) [Z](http://docs.google.com/index-all.html#_Z_) [\_](http://docs.google.com/index-all.html#___)

## **A**

[**addKeyboardEvent(const KeyboardEvent&)**](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html#addKeyboardEvent(constKeyboardEvent&)) - member function in class [Window](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html) Functions to add events to the input queues. [**addMouseEvent(const MouseEvent&)**](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html#addMouseEvent(constMouseEvent&)) - member function in class [Window](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html) Functions to add events to the input queues. [**addTimerEvent(const TimerEvent&)**](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html#addTimerEvent(constTimerEvent&)) - member function in class [Window](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html) Functions to add events to the input queues. [**ALL\_MODIFIERS**](http://docs.google.com/projects/CarnegieMellonGraphics2/KeyModifiers.html#ALL_MODIFIERS) - static variable in class [KeyModifiers](http://docs.google.com/projects/CarnegieMellonGraphics2/KeyModifiers.html) Matches when all modifiers are active [**ALT**](http://docs.google.com/projects/CarnegieMellonGraphics2/KeyModifiers.html#ALT) - static variable in class [KeyModifiers](http://docs.google.com/projects/CarnegieMellonGraphics2/KeyModifiers.html) Matches the "alt" key [**ALT\_AND\_CONTROL**](http://docs.google.com/projects/CarnegieMellonGraphics2/KeyModifiers.html#ALT_AND_CONTROL) - static variable in class [KeyModifiers](http://docs.google.com/projects/CarnegieMellonGraphics2/KeyModifiers.html) Matches if both "control" and "alt" are active [**ALT\_AND\_SHIFT**](http://docs.google.com/projects/CarnegieMellonGraphics2/KeyModifiers.html#ALT_AND_SHIFT) - static variable in class [KeyModifiers](http://docs.google.com/projects/CarnegieMellonGraphics2/KeyModifiers.html) Matches if both "shift" and "alt" are active [**ANY\_MODIFIERS**](http://docs.google.com/projects/CarnegieMellonGraphics2/KeyModifiers.html#ANY_MODIFIERS) - static variable in class [KeyModifiers](http://docs.google.com/projects/CarnegieMellonGraphics2/KeyModifiers.html) Matches any set of modifiers [**autoFlushKeyboardQueue(bool)**](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html#autoFlushKeyboardQueue(bool)) - member function in class [Window](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html) Automatically lets you ignore the events in the keyboard message queue. [**autoFlushMouseQueue(bool)**](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html#autoFlushMouseQueue(bool)) - member function in class [Window](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html) Automatically lets you ignore the events in the mouse message queue. [**autoFlushTimerQueue(bool)**](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html#autoFlushTimerQueue(bool)) - member function in class [Window](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html) Automatically lets you ignore the events in the timer message queue.

## B

[**BACKSPACE**](http://docs.google.com/projects/CarnegieMellonGraphics2/NamedKey.html#BACKSPACE) - static variable in class [NamedKey](http://docs.google.com/projects/CarnegieMellonGraphics2/NamedKey.html) [**BLACK**](http://docs.google.com/projects/CarnegieMellonGraphics2/Color.html#BLACK) - static variable in class [Color](http://docs.google.com/projects/CarnegieMellonGraphics2/Color.html) [**BLACK**](http://docs.google.com/projects/CarnegieMellonGraphics2/Style.html#BLACK) - static variable in class [Style](http://docs.google.com/projects/CarnegieMellonGraphics2/Style.html) [**BLUE**](http://docs.google.com/projects/CarnegieMellonGraphics2/Color.html#BLUE) - static variable in class [Color](http://docs.google.com/projects/CarnegieMellonGraphics2/Color.html) [**BLUE**](http://docs.google.com/projects/CarnegieMellonGraphics2/Style.html#BLUE) - static variable in class [Style](http://docs.google.com/projects/CarnegieMellonGraphics2/Style.html) [**Button**](http://docs.google.com/projects/CarnegieMellonGraphics2/MouseEvent..Button.html#Button) - member variable in typedef [MouseEvent::Button](http://docs.google.com/projects/CarnegieMellonGraphics2/MouseEvent..Button.html)

## C

[**checkFont(const std::string&,const int)**](http://docs.google.com/projects/CarnegieMellonGraphics2/Font.html#checkFont(conststd::string&,constint)) - static function in class [Font](http://docs.google.com/projects/CarnegieMellonGraphics2/Font.html) Class function for checking to see whether a font exists [**checkImage(const std::string&,const Type)**](http://docs.google.com/projects/CarnegieMellonGraphics2/Image.html#checkImage(conststd::string&,constType)) - static function in class [Image](http://docs.google.com/projects/CarnegieMellonGraphics2/Image.html) Class function for checking to see whether an Image exists [**clone()**](http://docs.google.com/projects/CarnegieMellonGraphics2/EditableImage.html#clone()) - member function in class [EditableImage](http://docs.google.com/projects/CarnegieMellonGraphics2/EditableImage.html) return a "deep" copy of this image [**Color**](http://docs.google.com/projects/CarnegieMellonGraphics2/Color.html) - class in [CarnegieMellonGraphics2](http://docs.google.com/projects/CarnegieMellonGraphics2/project-summary.html) The Color class is used by the system to represent color information (of all things). [**Color()**](http://docs.google.com/projects/CarnegieMellonGraphics2/Color.html#Color()) - constructor in class [Color](http://docs.google.com/projects/CarnegieMellonGraphics2/Color.html) Construct an empty color (which is by default, fully opaque black) [**Color(int,int,int)**](http://docs.google.com/projects/CarnegieMellonGraphics2/Color.html#Color(int,int,int)) - constructor in class [Color](http://docs.google.com/projects/CarnegieMellonGraphics2/Color.html) Construct a completely opaque color from three component hues [**Color(int,int,int,int)**](http://docs.google.com/projects/CarnegieMellonGraphics2/Color.html#Color(int,int,int,int)) - constructor in class [Color](http://docs.google.com/projects/CarnegieMellonGraphics2/Color.html) Construct a color from the three component hues and an alpha channel. [**CONTROL**](http://docs.google.com/projects/CarnegieMellonGraphics2/KeyModifiers.html#CONTROL) - static variable in class [KeyModifiers](http://docs.google.com/projects/CarnegieMellonGraphics2/KeyModifiers.html) Matches "control" key [**CONTROL\_AND\_ALT**](http://docs.google.com/projects/CarnegieMellonGraphics2/KeyModifiers.html#CONTROL_AND_ALT) - static variable in class [KeyModifiers](http://docs.google.com/projects/CarnegieMellonGraphics2/KeyModifiers.html) Matches if both "control" and "alt" are active [**CONTROL\_AND\_SHIFT**](http://docs.google.com/projects/CarnegieMellonGraphics2/KeyModifiers.html#CONTROL_AND_SHIFT) - static variable in class [KeyModifiers](http://docs.google.com/projects/CarnegieMellonGraphics2/KeyModifiers.html) Matches if both "control" and "shift" are active [**copyRegion(const int,const int,const int,const int,const int,const int)**](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html#copyRegion(constint,constint,constint,constint,constint,constint)) - member function in class [Window](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html) Copy the rectangular region at (x1, y1) to (x2, y2) [**createImage(const int,const int,const int,const int)**](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html#createImage(constint,constint,constint,constint)) - member function in class [Window](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html) Create an image from the rectangular region with an upper-left hand corner at (x, y)

## D

[**DELETE\_KEY**](http://docs.google.com/projects/CarnegieMellonGraphics2/NamedKey.html#DELETE_KEY) - static variable in class [NamedKey](http://docs.google.com/projects/CarnegieMellonGraphics2/NamedKey.html) [**disableAntialiasing()**](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html#disableAntialiasing()) - member function in class [Window](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html) Renderer dependent capability. [**disableAutoPageFlip()**](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html#disableAutoPageFlip()) - member function in class [Window](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html) By default each window will handle refreshing the graphics automatically for the user. [**disableFullScreen()**](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html#disableFullScreen()) - member function in class [Window](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html) **Deprecated.** *Do not use. This works only on some systems. To ensure that you will always go into fullscreen mode, use the constructor* [*Window*](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html#Window)*.* [**DOWN\_ARROW**](http://docs.google.com/projects/CarnegieMellonGraphics2/NamedKey.html#DOWN_ARROW) - static variable in class [NamedKey](http://docs.google.com/projects/CarnegieMellonGraphics2/NamedKey.html) [**drawArc(const Style&,const int,const int,const int,const int,const double,const double)**](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html#drawArc(constStyle&,constint,constint,constint,constint,constdouble,constdouble)) - member function in class [Window](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html) Draw an elliptical arc from angle start to end in degrees. **drawBezierCurve(const Style&,const std::vector< int >&,const std::vector< int >&)** - member function in class [Window](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html) Draw a bezier curve using the specified style, and the two vectors specifying the control points [**drawChordFilled(const Style&,const int,const int,const int,const int,const double,const double)**](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html#drawChordFilled(constStyle&,constint,constint,constint,constint,constdouble,constdouble)) - member function in class [Window](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html) Draw a filled elliptical chord with from start to end degrees The two points (x1, y1) and (x2, y2) specify the bounding box [**drawChordOutline(const Style&,const int,const int,const int,const int,const double,const double)**](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html#drawChordOutline(constStyle&,constint,constint,constint,constint,constdouble,constdouble)) - member function in class [Window](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html) Draw an elliptical chord outline with from start to end degrees The two points (x1, y1) and (x2, y2) specify the bounding box [**drawCircleFilled(const Style&,const int,const int,const int)**](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html#drawCircleFilled(constStyle&,constint,constint,constint)) - member function in class [Window](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html) Draw a filled circle with style s and the specified radius at point (x, y) [**drawCircleOutline(const Style&,const int,const int,const int)**](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html#drawCircleOutline(constStyle&,constint,constint,constint)) - member function in class [Window](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html) Draw a circle outline with style s and the specified radius at point (x, y) [**drawEllipseFilled(const Style&,const int,const int,const int,const int)**](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html#drawEllipseFilled(constStyle&,constint,constint,constint,constint)) - member function in class [Window](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html) Draw a filled ellipse with inside the bounding box specfied by the two points (x1, y1) and (x2, y2) [**drawEllipseOutline(const Style&,const int,const int,const int,const int)**](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html#drawEllipseOutline(constStyle&,constint,constint,constint,constint)) - member function in class [Window](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html) Draw an ellipse outline with inside the bounding box specified by the two points (x1, y1) and (x2, y2) [**drawImage(const Image&,const int,const int)**](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html#drawImage(constImage&,constint,constint)) - member function in class [Window](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html) Draw the image at with its upper right-hand corner located at (x,y) [**drawImage(const Image&,const int,const int,const Transform&)**](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html#drawImage(constImage&,constint,constint,constTransform&)) - member function in class [Window](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html) Draw the image at with its upper right-hand corner located at (x,y) using the specified transform [**drawLine(const Style&,const int,const int,const int,const int)**](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html#drawLine(constStyle&,constint,constint,constint,constint)) - member function in class [Window](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html) Draw a line from (x1,y1) to (x2, y2) with style s [**drawPixel(const Style&,const int,const int)**](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html#drawPixel(constStyle&,constint,constint)) - member function in class [Window](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html) Draw a pixel at (x,y) with style s. **drawPolygonFilled(const Style&,const std::vector< int >&,const std::vector< int >&)** - member function in class [Window](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html) Draw a filled polygon using the specified style and the two vectors to specifiy vertices **drawPolygonOutline(const Style&,const std::vector< int >&,const std::vector< int >&)** - member function in class [Window](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html) Draw a polygon outline using the specified style and the two vectors to specifiy vertices **drawPolyLine(const Style&,const std::vector< int >&,const std::vector< int >&)** - member function in class [Window](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html) Draw a polyline using the specified style and the two vectors to specifiy vertices [**drawRectangleFilled(const Style&,const int,const int,const int,const int)**](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html#drawRectangleFilled(constStyle&,constint,constint,constint,constint)) - member function in class [Window](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html) Draw a filled rectangle with (x1, y1) as the upper left-hand corner, and (x2, y2) as the lower right-hand corner with style s [**drawRectangleOutline(const Style&,const int,const int,const int,const int)**](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html#drawRectangleOutline(constStyle&,constint,constint,constint,constint)) - member function in class [Window](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html) Draw a rectangle outline with (x1, y1) as the upper left-hand corner, and (x2, y2) as the lower right-hand corner with style s [**drawText(const Style&,const Font&,const int,const int,const std::string&)**](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html#drawText(constStyle&,constFont&,constint,constint,conststd::string&)) - member function in class [Window](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html) Draw text in the specified font and style [**drawText(const Style&,const Font&,const int,const int,const std::string&,const Transform&)**](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html#drawText(constStyle&,constFont&,constint,constint,conststd::string&,constTransform&)) - member function in class [Window](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html) Draw text in the specified font and style, using the specified transform [**drawTriangleFilled(const Style&,const int,const int,const int,const int,const int,const int)**](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html#drawTriangleFilled(constStyle&,constint,constint,constint,constint,constint,constint)) - member function in class [Window](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html) Draw a filled triangle with vertices (x1, y1), (x2, y2), (x3, y3) with in style s [**drawTriangleOutline(const Style&,const int,const int,const int,const int,const int,const int)**](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html#drawTriangleOutline(constStyle&,constint,constint,constint,constint,constint,constint)) - member function in class [Window](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html) Draw a triangle outline with vertices (x1, y1), (x2, y2), (x3, y3) with in style s [**drawWedgeFilled(const Style&,const int,const int,const int,const int,const double,const double)**](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html#drawWedgeFilled(constStyle&,constint,constint,constint,constint,constdouble,constdouble)) - member function in class [Window](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html) Draw a filled elliptical wedge with from start to end degrees The two points (x1, y1) and (x2, y2) specify the bounding box [**drawWedgeOutline(const Style&,const int,const int,const int,const int,const double,const double)**](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html#drawWedgeOutline(constStyle&,constint,constint,constint,constint,constdouble,constdouble)) - member function in class [Window](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html) Draw an elliptical wedge outline with from start to end degrees The two points (x1, y1) and (x2, y2) specify the bounding box

## E

[**EditableImage**](http://docs.google.com/projects/CarnegieMellonGraphics2/EditableImage.html) - class in [CarnegieMellonGraphics2](http://docs.google.com/projects/CarnegieMellonGraphics2/project-summary.html) Images that can be manipulated at the pixel level. [**~EditableImage()**](http://docs.google.com/projects/CarnegieMellonGraphics2/EditableImage.html#~EditableImage()) - constructor in class [EditableImage](http://docs.google.com/projects/CarnegieMellonGraphics2/EditableImage.html) [**EditableImage(const EditableImage&)**](http://docs.google.com/projects/CarnegieMellonGraphics2/EditableImage.html#EditableImage(constEditableImage&)) - constructor in class [EditableImage](http://docs.google.com/projects/CarnegieMellonGraphics2/EditableImage.html) Copy constructor [**EditableImage(const Image&)**](http://docs.google.com/projects/CarnegieMellonGraphics2/EditableImage.html#EditableImage(constImage&)) - constructor in class [EditableImage](http://docs.google.com/projects/CarnegieMellonGraphics2/EditableImage.html) Cast Image object up to an EditableImage [**EditableImage(int,int)**](http://docs.google.com/projects/CarnegieMellonGraphics2/EditableImage.html#EditableImage(int,int)) - constructor in class [EditableImage](http://docs.google.com/projects/CarnegieMellonGraphics2/EditableImage.html) Constructor to make an image that's width x height. [**enableAntialiasing()**](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html#enableAntialiasing()) - member function in class [Window](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html) Renderer dependent capability. [**enableAutoPageFlip()**](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html#enableAutoPageFlip()) - member function in class [Window](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html) Enabled by default; everything you draw will automatically appear on screen. [**enableFullScreen(int,int)**](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html#enableFullScreen(int,int)) - member function in class [Window](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html) **Deprecated.** *Do not use. This works only on some systems. To ensure that you will always go into fullscreen mode, use the constructor* [*Window*](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html#Window)*.* [**END**](http://docs.google.com/projects/CarnegieMellonGraphics2/NamedKey.html#END) - static variable in class [NamedKey](http://docs.google.com/projects/CarnegieMellonGraphics2/NamedKey.html) [**ENTER**](http://docs.google.com/projects/CarnegieMellonGraphics2/NamedKey.html#ENTER) - static variable in class [NamedKey](http://docs.google.com/projects/CarnegieMellonGraphics2/NamedKey.html) [**ESCAPE**](http://docs.google.com/projects/CarnegieMellonGraphics2/NamedKey.html#ESCAPE) - static variable in class [NamedKey](http://docs.google.com/projects/CarnegieMellonGraphics2/NamedKey.html) [**Event**](http://docs.google.com/projects/CarnegieMellonGraphics2/MouseEvent..Event.html#Event) - member variable in typedef [MouseEvent::Event](http://docs.google.com/projects/CarnegieMellonGraphics2/MouseEvent..Event.html) [**exitHandler()**](http://docs.google.com/projects/CarnegieMellonGraphics2/WindowManager.html#exitHandler()) - static function in class [WindowManager](http://docs.google.com/projects/CarnegieMellonGraphics2/WindowManager.html) Called inside the event loop to exit the handle

## F

[**flipPage()**](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html#flipPage()) - member function in class [Window](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html) Make the changes that you've made appear on screen. [**flipPatternBit(int)**](http://docs.google.com/projects/CarnegieMellonGraphics2/Style.html#flipPatternBit(int)) - member function in class [Style](http://docs.google.com/projects/CarnegieMellonGraphics2/Style.html) [**flushKeyboardQueue()**](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html#flushKeyboardQueue()) - member function in class [Window](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html) Remove all pending messages in the keyboard event queue. [**flushMouseQueue()**](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html#flushMouseQueue()) - member function in class [Window](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html) Remove all pending messages in the mouse event queue. [**flushTimerQueue()**](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html#flushTimerQueue()) - member function in class [Window](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html) Remove all pending messages in the timer event queue. [**Font**](http://docs.google.com/projects/CarnegieMellonGraphics2/Font.html) - class in [CarnegieMellonGraphics2](http://docs.google.com/projects/CarnegieMellonGraphics2/project-summary.html) Class for representing fonts. [**~Font()**](http://docs.google.com/projects/CarnegieMellonGraphics2/Font.html#~Font()) - constructor in class [Font](http://docs.google.com/projects/CarnegieMellonGraphics2/Font.html) [**Font(const Font&)**](http://docs.google.com/projects/CarnegieMellonGraphics2/Font.html#Font(constFont&)) - constructor in class [Font](http://docs.google.com/projects/CarnegieMellonGraphics2/Font.html) Copy constructor [**Font(const std::string&,const int)**](http://docs.google.com/projects/CarnegieMellonGraphics2/Font.html#Font(conststd::string&,constint)) - constructor in class [Font](http://docs.google.com/projects/CarnegieMellonGraphics2/Font.html) Constructor for creating fonts from a TrueType font file. [**Font(int,int)**](http://docs.google.com/projects/CarnegieMellonGraphics2/Font.html#Font(int,int)) - constructor in class [Font](http://docs.google.com/projects/CarnegieMellonGraphics2/Font.html) Constructor for creating fonts from one of the builtin fonts. [**FullScreenWindow**](http://docs.google.com/projects/CarnegieMellonGraphics2/FullScreenWindow.html) - class in [CarnegieMellonGraphics2](http://docs.google.com/projects/CarnegieMellonGraphics2/project-summary.html) The FullScreenWindow class does everything a normal window does but its constructor automatically makes the window full screen. [**FullScreenWindow(int,int,int,int)**](http://docs.google.com/projects/CarnegieMellonGraphics2/FullScreenWindow.html#FullScreenWindow(int,int,int,int)) - constructor in class [FullScreenWindow](http://docs.google.com/projects/CarnegieMellonGraphics2/FullScreenWindow.html) [**FUNCTION\_1**](http://docs.google.com/projects/CarnegieMellonGraphics2/NamedKey.html#FUNCTION_1) - static variable in class [NamedKey](http://docs.google.com/projects/CarnegieMellonGraphics2/NamedKey.html) [**FUNCTION\_10**](http://docs.google.com/projects/CarnegieMellonGraphics2/NamedKey.html#FUNCTION_10) - static variable in class [NamedKey](http://docs.google.com/projects/CarnegieMellonGraphics2/NamedKey.html) [**FUNCTION\_11**](http://docs.google.com/projects/CarnegieMellonGraphics2/NamedKey.html#FUNCTION_11) - static variable in class [NamedKey](http://docs.google.com/projects/CarnegieMellonGraphics2/NamedKey.html) [**FUNCTION\_12**](http://docs.google.com/projects/CarnegieMellonGraphics2/NamedKey.html#FUNCTION_12) - static variable in class [NamedKey](http://docs.google.com/projects/CarnegieMellonGraphics2/NamedKey.html) [**FUNCTION\_2**](http://docs.google.com/projects/CarnegieMellonGraphics2/NamedKey.html#FUNCTION_2) - static variable in class [NamedKey](http://docs.google.com/projects/CarnegieMellonGraphics2/NamedKey.html) [**FUNCTION\_3**](http://docs.google.com/projects/CarnegieMellonGraphics2/NamedKey.html#FUNCTION_3) - static variable in class [NamedKey](http://docs.google.com/projects/CarnegieMellonGraphics2/NamedKey.html) [**FUNCTION\_4**](http://docs.google.com/projects/CarnegieMellonGraphics2/NamedKey.html#FUNCTION_4) - static variable in class [NamedKey](http://docs.google.com/projects/CarnegieMellonGraphics2/NamedKey.html) [**FUNCTION\_5**](http://docs.google.com/projects/CarnegieMellonGraphics2/NamedKey.html#FUNCTION_5) - static variable in class [NamedKey](http://docs.google.com/projects/CarnegieMellonGraphics2/NamedKey.html) [**FUNCTION\_6**](http://docs.google.com/projects/CarnegieMellonGraphics2/NamedKey.html#FUNCTION_6) - static variable in class [NamedKey](http://docs.google.com/projects/CarnegieMellonGraphics2/NamedKey.html) [**FUNCTION\_7**](http://docs.google.com/projects/CarnegieMellonGraphics2/NamedKey.html#FUNCTION_7) - static variable in class [NamedKey](http://docs.google.com/projects/CarnegieMellonGraphics2/NamedKey.html) [**FUNCTION\_8**](http://docs.google.com/projects/CarnegieMellonGraphics2/NamedKey.html#FUNCTION_8) - static variable in class [NamedKey](http://docs.google.com/projects/CarnegieMellonGraphics2/NamedKey.html) [**FUNCTION\_9**](http://docs.google.com/projects/CarnegieMellonGraphics2/NamedKey.html#FUNCTION_9) - static variable in class [NamedKey](http://docs.google.com/projects/CarnegieMellonGraphics2/NamedKey.html)

## G

[**getAlpha()**](http://docs.google.com/projects/CarnegieMellonGraphics2/Color.html#getAlpha()) - member function in class [Color](http://docs.google.com/projects/CarnegieMellonGraphics2/Color.html) [**getBlue()**](http://docs.google.com/projects/CarnegieMellonGraphics2/Color.html#getBlue()) - member function in class [Color](http://docs.google.com/projects/CarnegieMellonGraphics2/Color.html) [**getButton()**](http://docs.google.com/projects/CarnegieMellonGraphics2/MouseEvent.html#getButton()) - member function in class [MouseEvent](http://docs.google.com/projects/CarnegieMellonGraphics2/MouseEvent.html) [**getColor()**](http://docs.google.com/projects/CarnegieMellonGraphics2/Style.html#getColor()) - member function in class [Style](http://docs.google.com/projects/CarnegieMellonGraphics2/Style.html) [**getEvent()**](http://docs.google.com/projects/CarnegieMellonGraphics2/MouseEvent.html#getEvent()) - member function in class [MouseEvent](http://docs.google.com/projects/CarnegieMellonGraphics2/MouseEvent.html) [**getFace()**](http://docs.google.com/projects/CarnegieMellonGraphics2/Font.html#getFace()) - member function in class [Font](http://docs.google.com/projects/CarnegieMellonGraphics2/Font.html) [**getGreen()**](http://docs.google.com/projects/CarnegieMellonGraphics2/Color.html#getGreen()) - member function in class [Color](http://docs.google.com/projects/CarnegieMellonGraphics2/Color.html) [**getHeight()**](http://docs.google.com/projects/CarnegieMellonGraphics2/Image.html#getHeight()) - member function in class [Image](http://docs.google.com/projects/CarnegieMellonGraphics2/Image.html) Get the height of the image [**getHeight()**](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html#getHeight()) - member function in class [Window](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html) Return the height of the window. [**getKeyboardEvent()**](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html#getKeyboardEvent()) - member function in class [Window](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html) Pull events off the front of the Keyboard event queue. [**getKeyboardFilter()**](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html#getKeyboardFilter()) - member function in class [Window](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html) Set filters on the input queues, useful in eliminating non-interesting events. [**getLineWidth()**](http://docs.google.com/projects/CarnegieMellonGraphics2/Style.html#getLineWidth()) - member function in class [Style](http://docs.google.com/projects/CarnegieMellonGraphics2/Style.html) [**getModifiers()**](http://docs.google.com/projects/CarnegieMellonGraphics2/KeyboardEvent.html#getModifiers()) - member function in class [KeyboardEvent](http://docs.google.com/projects/CarnegieMellonGraphics2/KeyboardEvent.html) Obtain the set of modifers active at the time of the event [**getModifiers()**](http://docs.google.com/projects/CarnegieMellonGraphics2/MouseEvent.html#getModifiers()) - member function in class [MouseEvent](http://docs.google.com/projects/CarnegieMellonGraphics2/MouseEvent.html) [**getMouseEvent()**](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html#getMouseEvent()) - member function in class [Window](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html) Pull events off the front of the Mouse event queue Use [isButtonDown](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html#isButtonDown) if you're interested in less precise input processing (i.e. when you're making a game). [**getMouseFilter()**](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html#getMouseFilter()) - member function in class [Window](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html) Set filters on the input queues, useful in eliminating non-interesting events. [**getMouseX()**](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html#getMouseX()) - member function in class [Window](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html) Return the last location of mouse X position. [**getMouseY()**](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html#getMouseY()) - member function in class [Window](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html) Return the last location of mouse Y position. [**getPattern()**](http://docs.google.com/projects/CarnegieMellonGraphics2/Style.html#getPattern()) - member function in class [Style](http://docs.google.com/projects/CarnegieMellonGraphics2/Style.html) [**getPatternAsUShort()**](http://docs.google.com/projects/CarnegieMellonGraphics2/Style.html#getPatternAsUShort()) - member function in class [Style](http://docs.google.com/projects/CarnegieMellonGraphics2/Style.html) [**getPixel(int,int)**](http://docs.google.com/projects/CarnegieMellonGraphics2/EditableImage.html#getPixel(int,int)) - member function in class [EditableImage](http://docs.google.com/projects/CarnegieMellonGraphics2/EditableImage.html) gets the color of the pixel at (x,y) [**getPointSize()**](http://docs.google.com/projects/CarnegieMellonGraphics2/Font.html#getPointSize()) - member function in class [Font](http://docs.google.com/projects/CarnegieMellonGraphics2/Font.html) [**getPosition(int&,int&)**](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html#getPosition(int&,int&)) - member function in class [Window](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html) Retrieves the current position of the window. [**getRasterOp()**](http://docs.google.com/projects/CarnegieMellonGraphics2/Style.html#getRasterOp()) - member function in class [Style](http://docs.google.com/projects/CarnegieMellonGraphics2/Style.html) [**getRed()**](http://docs.google.com/projects/CarnegieMellonGraphics2/Color.html#getRed()) - member function in class [Color](http://docs.google.com/projects/CarnegieMellonGraphics2/Color.html) [**getRotation()**](http://docs.google.com/projects/CarnegieMellonGraphics2/Transform.html#getRotation()) - member function in class [Transform](http://docs.google.com/projects/CarnegieMellonGraphics2/Transform.html) [**getScaleX()**](http://docs.google.com/projects/CarnegieMellonGraphics2/Transform.html#getScaleX()) - member function in class [Transform](http://docs.google.com/projects/CarnegieMellonGraphics2/Transform.html) [**getScaleY()**](http://docs.google.com/projects/CarnegieMellonGraphics2/Transform.html#getScaleY()) - member function in class [Transform](http://docs.google.com/projects/CarnegieMellonGraphics2/Transform.html) [**getStringSize(const std::string&,int&,int&)**](http://docs.google.com/projects/CarnegieMellonGraphics2/Font.html#getStringSize(conststd::string&,int&,int&)) - member function in class [Font](http://docs.google.com/projects/CarnegieMellonGraphics2/Font.html) Get the dimensions of the specified text. [**getTime()**](http://docs.google.com/projects/CarnegieMellonGraphics2/WindowManager.html#getTime()) - static function in class [WindowManager](http://docs.google.com/projects/CarnegieMellonGraphics2/WindowManager.html) Return the number of "ticks" that have ellapsed since the program was started. [**getTimerCount(const TimerEvent&)**](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html#getTimerCount(constTimerEvent&)) - member function in class [Window](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html) Get the number of times this timer event has occurred. [**getTimerEvent()**](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html#getTimerEvent()) - member function in class [Window](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html) Pull events off the front of the Timer event queue Use [getTimerCount](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html#getTimerCount) to get lower-overhead event processing. [**getTimerFilter()**](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html#getTimerFilter()) - member function in class [Window](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html) Set filters on the input queues, useful in eliminating non-interesting events. [**getTimerID()**](http://docs.google.com/projects/CarnegieMellonGraphics2/TimerEvent.html#getTimerID()) - member function in class [TimerEvent](http://docs.google.com/projects/CarnegieMellonGraphics2/TimerEvent.html) [**getType()**](http://docs.google.com/projects/CarnegieMellonGraphics2/Image.html#getType()) - member function in class [Image](http://docs.google.com/projects/CarnegieMellonGraphics2/Image.html) Get the type of the image [**getValue()**](http://docs.google.com/projects/CarnegieMellonGraphics2/KeyboardEvent.html#getValue()) - member function in class [KeyboardEvent](http://docs.google.com/projects/CarnegieMellonGraphics2/KeyboardEvent.html) Obtain the integer value cooresponding to the event [**getWidth()**](http://docs.google.com/projects/CarnegieMellonGraphics2/Image.html#getWidth()) - member function in class [Image](http://docs.google.com/projects/CarnegieMellonGraphics2/Image.html) Get the width of the image [**getWidth()**](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html#getWidth()) - member function in class [Window](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html) Return the width of the window. [**getX()**](http://docs.google.com/projects/CarnegieMellonGraphics2/MouseEvent.html#getX()) - member function in class [MouseEvent](http://docs.google.com/projects/CarnegieMellonGraphics2/MouseEvent.html) [**getY()**](http://docs.google.com/projects/CarnegieMellonGraphics2/MouseEvent.html#getY()) - member function in class [MouseEvent](http://docs.google.com/projects/CarnegieMellonGraphics2/MouseEvent.html) [**GREEN**](http://docs.google.com/projects/CarnegieMellonGraphics2/Color.html#GREEN) - static variable in class [Color](http://docs.google.com/projects/CarnegieMellonGraphics2/Color.html) [**GREEN**](http://docs.google.com/projects/CarnegieMellonGraphics2/Style.html#GREEN) - static variable in class [Style](http://docs.google.com/projects/CarnegieMellonGraphics2/Style.html)

## H

[**handleEvents()**](http://docs.google.com/projects/CarnegieMellonGraphics2/WindowManager.html#handleEvents()) - static function in class [WindowManager](http://docs.google.com/projects/CarnegieMellonGraphics2/WindowManager.html) Called to begin event handling [**handleIdleEvent()**](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html#handleIdleEvent()) - member function in class [Window](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html) Event handlers for when in event handling mode. [**handleKeyboardEvent(const KeyboardEvent&)**](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html#handleKeyboardEvent(constKeyboardEvent&)) - member function in class [Window](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html) Event handlers for when in event handling mode. [**handleMouseEvent(const MouseEvent&)**](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html#handleMouseEvent(constMouseEvent&)) - member function in class [Window](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html) Event handlers for when in event handling mode. [**handleTimerEvent(const TimerEvent&)**](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html#handleTimerEvent(constTimerEvent&)) - member function in class [Window](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html) Event handlers for when in event handling mode. [**HELVETICA**](http://docs.google.com/projects/CarnegieMellonGraphics2/Font.html#HELVETICA) - static variable in class [Font](http://docs.google.com/projects/CarnegieMellonGraphics2/Font.html) bitmapped fonts, must be used at specific sizes; helvetica sizes: 10,12, 18. [**hide()**](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html#hide()) - member function in class [Window](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html) Hide this window. [**HOME**](http://docs.google.com/projects/CarnegieMellonGraphics2/NamedKey.html#HOME) - static variable in class [NamedKey](http://docs.google.com/projects/CarnegieMellonGraphics2/NamedKey.html)

## I

[**ignoreKeyRepeat(bool)**](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html#ignoreKeyRepeat(bool)) - member function in class [Window](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html) Ignore repeated keystrokes sent to this window. [**Image**](http://docs.google.com/projects/CarnegieMellonGraphics2/Image.html) - class in [CarnegieMellonGraphics2](http://docs.google.com/projects/CarnegieMellonGraphics2/project-summary.html) The Image class [**Image()**](http://docs.google.com/projects/CarnegieMellonGraphics2/Image.html#Image()) - constructor in class [Image](http://docs.google.com/projects/CarnegieMellonGraphics2/Image.html) [**~Image()**](http://docs.google.com/projects/CarnegieMellonGraphics2/Image.html#~Image()) - constructor in class [Image](http://docs.google.com/projects/CarnegieMellonGraphics2/Image.html) [**Image(const Image&)**](http://docs.google.com/projects/CarnegieMellonGraphics2/Image.html#Image(constImage&)) - constructor in class [Image](http://docs.google.com/projects/CarnegieMellonGraphics2/Image.html) Copy constructor [**Image(const std::string&,const Type)**](http://docs.google.com/projects/CarnegieMellonGraphics2/Image.html#Image(conststd::string&,constType)) - constructor in class [Image](http://docs.google.com/projects/CarnegieMellonGraphics2/Image.html) [**Image::Type**](http://docs.google.com/projects/CarnegieMellonGraphics2/Image..Type.html) - typedef in [CarnegieMellonGraphics2](http://docs.google.com/projects/CarnegieMellonGraphics2/project-summary.html) Image types currently supported

| JPEG | JPEG Images |
| --- | --- |
| PNG | PNG Images |
| SCREEN | An image created from a region in a window |

[**INSERT**](http://docs.google.com/projects/CarnegieMellonGraphics2/NamedKey.html#INSERT) - static variable in class [NamedKey](http://docs.google.com/projects/CarnegieMellonGraphics2/NamedKey.html) [**INVERTED**](http://docs.google.com/projects/CarnegieMellonGraphics2/Style.html#INVERTED) - static variable in class [Style](http://docs.google.com/projects/CarnegieMellonGraphics2/Style.html) [**isAutoPageFlipEnabled()**](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html#isAutoPageFlipEnabled()) - member function in class [Window](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html) Will return whether or not auto page flipping is enabled. [**isButtonDown(MouseEvent::Button)**](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html#isButtonDown(MouseEvent::Button)) - member function in class [Window](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html) Tells whether a specified mouse button is down. [**isHidden()**](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html#isHidden()) - member function in class [Window](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html) Tell if this window is hidden or not. [**isKeyboardQueueEmpty()**](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html#isKeyboardQueueEmpty()) - member function in class [Window](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html) Check whether there is input sitting in the Keyboard Queue. [**isKeyDown(int)**](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html#isKeyDown(int)) - member function in class [Window](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html) Tells whether the specified key is down. [**isModifierDown(KeyModifiers)**](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html#isModifierDown(KeyModifiers)) - member function in class [Window](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html) Tells whether the specified modifier was pressed during the last recorded mouse or keyboard event. [**isMouseQueueEmpty()**](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html#isMouseQueueEmpty()) - member function in class [Window](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html) Check whether there is input sitting in the Mouse Queue. [**isTimerQueueEmpty()**](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html#isTimerQueueEmpty()) - member function in class [Window](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html) Check whether there is input sitting in the Timer Queue.

## K

[**KeyboardEvent**](http://docs.google.com/projects/CarnegieMellonGraphics2/KeyboardEvent.html) - class in [CarnegieMellonGraphics2](http://docs.google.com/projects/CarnegieMellonGraphics2/project-summary.html) KeyboardEvents are generated whenever the user presses a key. [**KeyboardEvent()**](http://docs.google.com/projects/CarnegieMellonGraphics2/KeyboardEvent.html#KeyboardEvent()) - constructor in class [KeyboardEvent](http://docs.google.com/projects/CarnegieMellonGraphics2/KeyboardEvent.html) [**KeyboardEvent(const int,const KeyModifiers)**](http://docs.google.com/projects/CarnegieMellonGraphics2/KeyboardEvent.html#KeyboardEvent(constint,constKeyModifiers)) - constructor in class [KeyboardEvent](http://docs.google.com/projects/CarnegieMellonGraphics2/KeyboardEvent.html) Constructor for a keyboard event from a pair of parameters. [**KeyboardEvent(const KeyboardEvent&)**](http://docs.google.com/projects/CarnegieMellonGraphics2/KeyboardEvent.html#KeyboardEvent(constKeyboardEvent&)) - constructor in class [KeyboardEvent](http://docs.google.com/projects/CarnegieMellonGraphics2/KeyboardEvent.html) [**KeyModifiers**](http://docs.google.com/projects/CarnegieMellonGraphics2/KeyModifiers.html) - class in [CarnegieMellonGraphics2](http://docs.google.com/projects/CarnegieMellonGraphics2/project-summary.html) The KeyModifiers objects act as a "set" whose domain is that of the modifier keys that are available on a given system (usually control, shift, and alt). [**KeyModifiers()**](http://docs.google.com/projects/CarnegieMellonGraphics2/KeyModifiers.html#KeyModifiers()) - constructor in class [KeyModifiers](http://docs.google.com/projects/CarnegieMellonGraphics2/KeyModifiers.html)

## L

[**LEFT\_ARROW**](http://docs.google.com/projects/CarnegieMellonGraphics2/NamedKey.html#LEFT_ARROW) - static variable in class [NamedKey](http://docs.google.com/projects/CarnegieMellonGraphics2/NamedKey.html)

## M

[**MONO\_ROMAN**](http://docs.google.com/projects/CarnegieMellonGraphics2/Font.html#MONO_ROMAN) - static variable in class [Font](http://docs.google.com/projects/CarnegieMellonGraphics2/Font.html) stroked font, can be used at any resolution [**MouseEvent**](http://docs.google.com/projects/CarnegieMellonGraphics2/MouseEvent.html) - class in [CarnegieMellonGraphics2](http://docs.google.com/projects/CarnegieMellonGraphics2/project-summary.html) MouseEvents are generated whenever the user performs some action with the mouse. [**MouseEvent()**](http://docs.google.com/projects/CarnegieMellonGraphics2/MouseEvent.html#MouseEvent()) - constructor in class [MouseEvent](http://docs.google.com/projects/CarnegieMellonGraphics2/MouseEvent.html) Default constructor [**MouseEvent(const Event,const Button,const int,const int,const KeyModifiers)**](http://docs.google.com/projects/CarnegieMellonGraphics2/MouseEvent.html#MouseEvent(constEvent,constButton,constint,constint,constKeyModifiers)) - constructor in class [MouseEvent](http://docs.google.com/projects/CarnegieMellonGraphics2/MouseEvent.html) Constructor for a mouse event from a set of parameters. [**MouseEvent(const MouseEvent&)**](http://docs.google.com/projects/CarnegieMellonGraphics2/MouseEvent.html#MouseEvent(constMouseEvent&)) - constructor in class [MouseEvent](http://docs.google.com/projects/CarnegieMellonGraphics2/MouseEvent.html) Copy constructor [**MouseEvent::Button**](http://docs.google.com/projects/CarnegieMellonGraphics2/MouseEvent..Button.html) - typedef in [CarnegieMellonGraphics2](http://docs.google.com/projects/CarnegieMellonGraphics2/project-summary.html) These are the buttons that CMG recognizes. [**MouseEvent::Event**](http://docs.google.com/projects/CarnegieMellonGraphics2/MouseEvent..Event.html) - typedef in [CarnegieMellonGraphics2](http://docs.google.com/projects/CarnegieMellonGraphics2/project-summary.html) These are the events that CMG reports.

## N

[**NamedKey**](http://docs.google.com/projects/CarnegieMellonGraphics2/NamedKey.html) - class in [CarnegieMellonGraphics2](http://docs.google.com/projects/CarnegieMellonGraphics2/project-summary.html) The NamedKey class acts as a namespace for constants that correspond to keys that do not have a simple ASCII representation. [**NO\_MODIFIERS**](http://docs.google.com/projects/CarnegieMellonGraphics2/KeyModifiers.html#NO_MODIFIERS) - static variable in class [KeyModifiers](http://docs.google.com/projects/CarnegieMellonGraphics2/KeyModifiers.html) Matches if there are no active modifiers [**numberToString(double,int)**](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html#numberToString(double,int)) - static function in class [Window](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html) Convert the given double number to a string. [**numberToString(int)**](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html#numberToString(int)) - static function in class [Window](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html) Convert the given number to a string.

## O

[**operator!=(const Color&)**](http://docs.google.com/projects/CarnegieMellonGraphics2/Color.html#operator!=(constColor&)) - member function in class [Color](http://docs.google.com/projects/CarnegieMellonGraphics2/Color.html) Comparison operator for inequality on color objects [**operator!=(const Font&)**](http://docs.google.com/projects/CarnegieMellonGraphics2/Font.html#operator!=(constFont&)) - member function in class [Font](http://docs.google.com/projects/CarnegieMellonGraphics2/Font.html) Comparison operator for inequality on fonts [**operator!=(const Image&)**](http://docs.google.com/projects/CarnegieMellonGraphics2/Image.html#operator!=(constImage&)) - member function in class [Image](http://docs.google.com/projects/CarnegieMellonGraphics2/Image.html) Comparison operator for inequality on images [**operator!=(const KeyboardEvent&)**](http://docs.google.com/projects/CarnegieMellonGraphics2/KeyboardEvent.html#operator!=(constKeyboardEvent&)) - member function in class [KeyboardEvent](http://docs.google.com/projects/CarnegieMellonGraphics2/KeyboardEvent.html) Comparison operators for inequality on keyboard events [**operator!=(const KeyModifiers&)**](http://docs.google.com/projects/CarnegieMellonGraphics2/KeyModifiers.html#operator!=(constKeyModifiers&)) - member function in class [KeyModifiers](http://docs.google.com/projects/CarnegieMellonGraphics2/KeyModifiers.html) != Inequality tests on KeyModifiers [**operator!=(const MouseEvent&)**](http://docs.google.com/projects/CarnegieMellonGraphics2/MouseEvent.html#operator!=(constMouseEvent&)) - member function in class [MouseEvent](http://docs.google.com/projects/CarnegieMellonGraphics2/MouseEvent.html) Comparison operator for inequality on events. [**operator!=(const Style&)**](http://docs.google.com/projects/CarnegieMellonGraphics2/Style.html#operator!=(constStyle&)) - member function in class [Style](http://docs.google.com/projects/CarnegieMellonGraphics2/Style.html) Comparison operator for inequality on style objects [**operator!=(const TimerEvent&)**](http://docs.google.com/projects/CarnegieMellonGraphics2/TimerEvent.html#operator!=(constTimerEvent&)) - member function in class [TimerEvent](http://docs.google.com/projects/CarnegieMellonGraphics2/TimerEvent.html) **operator<<(std::ostream&,const Color&)** - member function in [(CarnegieMellonGraphics2 globals)](http://docs.google.com/projects/CarnegieMellonGraphics2/(CarnegieMellonGraphics2__globals).html) **operator<<(std::ostream&,const Font&)** - member function in [(CarnegieMellonGraphics2 globals)](http://docs.google.com/projects/CarnegieMellonGraphics2/(CarnegieMellonGraphics2__globals).html) **operator<<(std::ostream&,const Image&)** - member function in [(CarnegieMellonGraphics2 globals)](http://docs.google.com/projects/CarnegieMellonGraphics2/(CarnegieMellonGraphics2__globals).html) **operator<<(std::ostream&,const KeyboardEvent&)** - member function in [(CarnegieMellonGraphics2 globals)](http://docs.google.com/projects/CarnegieMellonGraphics2/(CarnegieMellonGraphics2__globals).html) **operator<<(std::ostream&,const KeyModifiers&)** - member function in [(CarnegieMellonGraphics2 globals)](http://docs.google.com/projects/CarnegieMellonGraphics2/(CarnegieMellonGraphics2__globals).html) **operator<<(std::ostream&,const MouseEvent&)** - member function in [(CarnegieMellonGraphics2 globals)](http://docs.google.com/projects/CarnegieMellonGraphics2/(CarnegieMellonGraphics2__globals).html) **operator<<(std::ostream&,const Style&)** - member function in [(CarnegieMellonGraphics2 globals)](http://docs.google.com/projects/CarnegieMellonGraphics2/(CarnegieMellonGraphics2__globals).html) **operator<<(std::ostream&,const TimerEvent&)** - member function in [(CarnegieMellonGraphics2 globals)](http://docs.google.com/projects/CarnegieMellonGraphics2/(CarnegieMellonGraphics2__globals).html) **operator<<(std::ostream&,const Transform&)** - member function in [(CarnegieMellonGraphics2 globals)](http://docs.google.com/projects/CarnegieMellonGraphics2/(CarnegieMellonGraphics2__globals).html) [**operator&=(const KeyModifiers&)**](http://docs.google.com/projects/CarnegieMellonGraphics2/KeyModifiers.html#operator&=(constKeyModifiers&)) - member function in class [KeyModifiers](http://docs.google.com/projects/CarnegieMellonGraphics2/KeyModifiers.html) &= Intersection-Assignment operator on KeyModifiers [**operator=(const EditableImage&)**](http://docs.google.com/projects/CarnegieMellonGraphics2/EditableImage.html#operator=(constEditableImage&)) - member function in class [EditableImage](http://docs.google.com/projects/CarnegieMellonGraphics2/EditableImage.html) Assignment operator. [**operator=(const Font&)**](http://docs.google.com/projects/CarnegieMellonGraphics2/Font.html#operator=(constFont&)) - member function in class [Font](http://docs.google.com/projects/CarnegieMellonGraphics2/Font.html) Assignment operator [**operator=(const Image&)**](http://docs.google.com/projects/CarnegieMellonGraphics2/Image.html#operator=(constImage&)) - member function in class [Image](http://docs.google.com/projects/CarnegieMellonGraphics2/Image.html) Assignment operator [**operator=(const Style&)**](http://docs.google.com/projects/CarnegieMellonGraphics2/Style.html#operator=(constStyle&)) - member function in class [Style](http://docs.google.com/projects/CarnegieMellonGraphics2/Style.html) [**operator==(const Color&)**](http://docs.google.com/projects/CarnegieMellonGraphics2/Color.html#operator==(constColor&)) - member function in class [Color](http://docs.google.com/projects/CarnegieMellonGraphics2/Color.html) Comparison operator for equality on color objects [**operator==(const Font&)**](http://docs.google.com/projects/CarnegieMellonGraphics2/Font.html#operator==(constFont&)) - member function in class [Font](http://docs.google.com/projects/CarnegieMellonGraphics2/Font.html) Comparison operator for equality on fonts [**operator==(const Image&)**](http://docs.google.com/projects/CarnegieMellonGraphics2/Image.html#operator==(constImage&)) - member function in class [Image](http://docs.google.com/projects/CarnegieMellonGraphics2/Image.html) Comparison operator for equality on images [**operator==(const KeyboardEvent&)**](http://docs.google.com/projects/CarnegieMellonGraphics2/KeyboardEvent.html#operator==(constKeyboardEvent&)) - member function in class [KeyboardEvent](http://docs.google.com/projects/CarnegieMellonGraphics2/KeyboardEvent.html) Comparison operators for equality on keyboard events [**operator==(const KeyModifiers&)**](http://docs.google.com/projects/CarnegieMellonGraphics2/KeyModifiers.html#operator==(constKeyModifiers&)) - member function in class [KeyModifiers](http://docs.google.com/projects/CarnegieMellonGraphics2/KeyModifiers.html) == Equality tests on KeyModifiers [**operator==(const MouseEvent&)**](http://docs.google.com/projects/CarnegieMellonGraphics2/MouseEvent.html#operator==(constMouseEvent&)) - member function in class [MouseEvent](http://docs.google.com/projects/CarnegieMellonGraphics2/MouseEvent.html) Comparison operator for equality on events. [**operator==(const Style&)**](http://docs.google.com/projects/CarnegieMellonGraphics2/Style.html#operator==(constStyle&)) - member function in class [Style](http://docs.google.com/projects/CarnegieMellonGraphics2/Style.html) Comparison operator for equality on style objects [**operator==(const TimerEvent&)**](http://docs.google.com/projects/CarnegieMellonGraphics2/TimerEvent.html#operator==(constTimerEvent&)) - member function in class [TimerEvent](http://docs.google.com/projects/CarnegieMellonGraphics2/TimerEvent.html) **operator|=(const KeyModifiers&)** - member function in class [KeyModifiers](http://docs.google.com/projects/CarnegieMellonGraphics2/KeyModifiers.html) |= Union-Assignment operator on KeyModifiers [**operator~()**](http://docs.google.com/projects/CarnegieMellonGraphics2/KeyModifiers.html#operator~()) - member function in class [KeyModifiers](http://docs.google.com/projects/CarnegieMellonGraphics2/KeyModifiers.html) ~ Compliment operator on KeyModifiers

## P

[**PAGE\_DOWN**](http://docs.google.com/projects/CarnegieMellonGraphics2/NamedKey.html#PAGE_DOWN) - static variable in class [NamedKey](http://docs.google.com/projects/CarnegieMellonGraphics2/NamedKey.html) [**PAGE\_UP**](http://docs.google.com/projects/CarnegieMellonGraphics2/NamedKey.html#PAGE_UP) - static variable in class [NamedKey](http://docs.google.com/projects/CarnegieMellonGraphics2/NamedKey.html)

## R

[**RasterOp**](http://docs.google.com/projects/CarnegieMellonGraphics2/Style..RasterOp.html#RasterOp) - member variable in typedef [Style::RasterOp](http://docs.google.com/projects/CarnegieMellonGraphics2/Style..RasterOp.html) [**readPixel(const int,const int)**](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html#readPixel(constint,constint)) - member function in class [Window](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html) Return the color at point (x, y) [**RED**](http://docs.google.com/projects/CarnegieMellonGraphics2/Color.html#RED) - static variable in class [Color](http://docs.google.com/projects/CarnegieMellonGraphics2/Color.html) [**RED**](http://docs.google.com/projects/CarnegieMellonGraphics2/Style.html#RED) - static variable in class [Style](http://docs.google.com/projects/CarnegieMellonGraphics2/Style.html) [**registerNewTimerEvent(const int)**](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html#registerNewTimerEvent(constint)) - member function in class [Window](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html) **Deprecated.** *This has unnecessary overhead. Use* [*startTimer*](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html#startTimer) *instead.* [**resize(int,int)**](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html#resize(int,int)) - member function in class [Window](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html) Changes the size of the window after creation. [**RIGHT\_ARROW**](http://docs.google.com/projects/CarnegieMellonGraphics2/NamedKey.html#RIGHT_ARROW) - static variable in class [NamedKey](http://docs.google.com/projects/CarnegieMellonGraphics2/NamedKey.html) [**ROMAN**](http://docs.google.com/projects/CarnegieMellonGraphics2/Font.html#ROMAN) - static variable in class [Font](http://docs.google.com/projects/CarnegieMellonGraphics2/Font.html) stroked font, can be used at any resolution

## S

[**save(const std::string&,const Type)**](http://docs.google.com/projects/CarnegieMellonGraphics2/Image.html#save(conststd::string&,constType)) - member function in class [Image](http://docs.google.com/projects/CarnegieMellonGraphics2/Image.html) Save this image to a file of the specified type. [**SCALE**](http://docs.google.com/projects/CarnegieMellonGraphics2/Transform.html#SCALE) - static variable in class [Transform](http://docs.google.com/projects/CarnegieMellonGraphics2/Transform.html) [**setAlpha(int)**](http://docs.google.com/projects/CarnegieMellonGraphics2/Color.html#setAlpha(int)) - member function in class [Color](http://docs.google.com/projects/CarnegieMellonGraphics2/Color.html) [**setBlue(int)**](http://docs.google.com/projects/CarnegieMellonGraphics2/Color.html#setBlue(int)) - member function in class [Color](http://docs.google.com/projects/CarnegieMellonGraphics2/Color.html) [**setColor(Color)**](http://docs.google.com/projects/CarnegieMellonGraphics2/Style.html#setColor(Color)) - member function in class [Style](http://docs.google.com/projects/CarnegieMellonGraphics2/Style.html) [**setFace(const std::string&)**](http://docs.google.com/projects/CarnegieMellonGraphics2/Font.html#setFace(conststd::string&)) - member function in class [Font](http://docs.google.com/projects/CarnegieMellonGraphics2/Font.html) [**setGreen(int)**](http://docs.google.com/projects/CarnegieMellonGraphics2/Color.html#setGreen(int)) - member function in class [Color](http://docs.google.com/projects/CarnegieMellonGraphics2/Color.html) [**setKeyboardFilter(const KeyboardEvent&)**](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html#setKeyboardFilter(constKeyboardEvent&)) - member function in class [Window](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html) Change the filter for the keyboard queue. [**setLineWidth(int)**](http://docs.google.com/projects/CarnegieMellonGraphics2/Style.html#setLineWidth(int)) - member function in class [Style](http://docs.google.com/projects/CarnegieMellonGraphics2/Style.html) [**setMouseFilter(const MouseEvent&)**](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html#setMouseFilter(constMouseEvent&)) - member function in class [Window](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html) Change the filter for the mouse queue. **setPattern(const std::vector< bool >&)** - member function in class [Style](http://docs.google.com/projects/CarnegieMellonGraphics2/Style.html) [**setPixel(int,int,const Color&)**](http://docs.google.com/projects/CarnegieMellonGraphics2/EditableImage.html#setPixel(int,int,constColor&)) - member function in class [EditableImage](http://docs.google.com/projects/CarnegieMellonGraphics2/EditableImage.html) sets the color of the pixel at (x,y) [**setPixel(int,int,unsigned char,unsigned char,unsigned char,unsigned char)**](http://docs.google.com/projects/CarnegieMellonGraphics2/EditableImage.html#setPixel(int,int,unsignedchar,unsignedchar,unsignedchar,unsignedchar)) - member function in class [EditableImage](http://docs.google.com/projects/CarnegieMellonGraphics2/EditableImage.html) sets the color of the pixel at (x,y) [**setPointSize(const int)**](http://docs.google.com/projects/CarnegieMellonGraphics2/Font.html#setPointSize(constint)) - member function in class [Font](http://docs.google.com/projects/CarnegieMellonGraphics2/Font.html) [**setPosition(int,int)**](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html#setPosition(int,int)) - member function in class [Window](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html) Changes the position of the window after creation. [**setRasterOp(RasterOp)**](http://docs.google.com/projects/CarnegieMellonGraphics2/Style.html#setRasterOp(RasterOp)) - member function in class [Style](http://docs.google.com/projects/CarnegieMellonGraphics2/Style.html) [**setRed(int)**](http://docs.google.com/projects/CarnegieMellonGraphics2/Color.html#setRed(int)) - member function in class [Color](http://docs.google.com/projects/CarnegieMellonGraphics2/Color.html) [**setRotation(double)**](http://docs.google.com/projects/CarnegieMellonGraphics2/Transform.html#setRotation(double)) - member function in class [Transform](http://docs.google.com/projects/CarnegieMellonGraphics2/Transform.html) [**setScale(double,double)**](http://docs.google.com/projects/CarnegieMellonGraphics2/Transform.html#setScale(double,double)) - member function in class [Transform](http://docs.google.com/projects/CarnegieMellonGraphics2/Transform.html) [**setScaleX(double)**](http://docs.google.com/projects/CarnegieMellonGraphics2/Transform.html#setScaleX(double)) - member function in class [Transform](http://docs.google.com/projects/CarnegieMellonGraphics2/Transform.html) [**setScaleY(double)**](http://docs.google.com/projects/CarnegieMellonGraphics2/Transform.html#setScaleY(double)) - member function in class [Transform](http://docs.google.com/projects/CarnegieMellonGraphics2/Transform.html) [**setTimerCount(const TimerEvent&,int)**](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html#setTimerCount(constTimerEvent&,int)) - member function in class [Window](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html) Changes the count for a timer. [**setTimerFilter(const TimerEvent&)**](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html#setTimerFilter(constTimerEvent&)) - member function in class [Window](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html) Change the filter for the timer queue. [**setTitle(const std::string&)**](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html#setTitle(conststd::string&)) - member function in class [Window](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html) Changes the title of the window after creation. [**SHIFT**](http://docs.google.com/projects/CarnegieMellonGraphics2/KeyModifiers.html#SHIFT) - static variable in class [KeyModifiers](http://docs.google.com/projects/CarnegieMellonGraphics2/KeyModifiers.html) Matches the "shift" key [**SHIFT\_AND\_ALT**](http://docs.google.com/projects/CarnegieMellonGraphics2/KeyModifiers.html#SHIFT_AND_ALT) - static variable in class [KeyModifiers](http://docs.google.com/projects/CarnegieMellonGraphics2/KeyModifiers.html) Matches if both "shift" and "alt" are active [**SHIFT\_AND\_CONTROL**](http://docs.google.com/projects/CarnegieMellonGraphics2/KeyModifiers.html#SHIFT_AND_CONTROL) - static variable in class [KeyModifiers](http://docs.google.com/projects/CarnegieMellonGraphics2/KeyModifiers.html) Matches if both "control" and "shift" are active [**show()**](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html#show()) - member function in class [Window](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html) Show this window. [**startTimer(int)**](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html#startTimer(int)) - member function in class [Window](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html) Register a timer event to occur every specified interval until you stop it using [stopTimer](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html#stopTimer). [**stopTimer(const TimerEvent&)**](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html#stopTimer(constTimerEvent&)) - member function in class [Window](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html) Stop a timer that was started with [startTimer](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html#startTimer). [**Style**](http://docs.google.com/projects/CarnegieMellonGraphics2/Style.html) - class in [CarnegieMellonGraphics2](http://docs.google.com/projects/CarnegieMellonGraphics2/project-summary.html) Style objects are used to encapsulate several pieces of style information to be passed to drawing calls. **Style(Color,int,RasterOp,const std::vector< bool >&)** - constructor in class [Style](http://docs.google.com/projects/CarnegieMellonGraphics2/Style.html) Construct a style from a set of parameters [**Style(const Style&)**](http://docs.google.com/projects/CarnegieMellonGraphics2/Style.html#Style(constStyle&)) - constructor in class [Style](http://docs.google.com/projects/CarnegieMellonGraphics2/Style.html) [**Style::RasterOp**](http://docs.google.com/projects/CarnegieMellonGraphics2/Style..RasterOp.html) - typedef in [CarnegieMellonGraphics2](http://docs.google.com/projects/CarnegieMellonGraphics2/project-summary.html) Possible raster operations

| COPY\_OP | Simply draw the color, default behavior |
| --- | --- |
| INVERT\_OP | Invert the drawing surface's color |
| XOR\_OP | XOR drawing surface with color |
| AND\_OP | AND drawing surface with color |
| OR\_OP | OR drawing surface with color |

[**subImage(int,int,int,int)**](http://docs.google.com/projects/CarnegieMellonGraphics2/Image.html#subImage(int,int,int,int)) - member function in class [Image](http://docs.google.com/projects/CarnegieMellonGraphics2/Image.html) Copy out a sub-portion of the image and return it.

## T

[**TimerEvent**](http://docs.google.com/projects/CarnegieMellonGraphics2/TimerEvent.html) - class in [CarnegieMellonGraphics2](http://docs.google.com/projects/CarnegieMellonGraphics2/project-summary.html) TimerEvents are used to keep track of events that happen at regular intervals. [**TimerEvent()**](http://docs.google.com/projects/CarnegieMellonGraphics2/TimerEvent.html#TimerEvent()) - constructor in class [TimerEvent](http://docs.google.com/projects/CarnegieMellonGraphics2/TimerEvent.html) [**TimerEvent(const TimerEvent&)**](http://docs.google.com/projects/CarnegieMellonGraphics2/TimerEvent.html#TimerEvent(constTimerEvent&)) - constructor in class [TimerEvent](http://docs.google.com/projects/CarnegieMellonGraphics2/TimerEvent.html) [**TimerEvent(int)**](http://docs.google.com/projects/CarnegieMellonGraphics2/TimerEvent.html#TimerEvent(int)) - constructor in class [TimerEvent](http://docs.google.com/projects/CarnegieMellonGraphics2/TimerEvent.html) [**TIMES**](http://docs.google.com/projects/CarnegieMellonGraphics2/Font.html#TIMES) - static variable in class [Font](http://docs.google.com/projects/CarnegieMellonGraphics2/Font.html) bitmapped fonts, must be used at specific sizes; times sizes: 10, 24. [**Transform**](http://docs.google.com/projects/CarnegieMellonGraphics2/Transform.html) - class in [CarnegieMellonGraphics2](http://docs.google.com/projects/CarnegieMellonGraphics2/project-summary.html) Transform objects are used to encapsulate image transformations: rotations and scales. [**Transform()**](http://docs.google.com/projects/CarnegieMellonGraphics2/Transform.html#Transform()) - constructor in class [Transform](http://docs.google.com/projects/CarnegieMellonGraphics2/Transform.html) [**Transform(double)**](http://docs.google.com/projects/CarnegieMellonGraphics2/Transform.html#Transform(double)) - constructor in class [Transform](http://docs.google.com/projects/CarnegieMellonGraphics2/Transform.html) [**Transform(double,double)**](http://docs.google.com/projects/CarnegieMellonGraphics2/Transform.html#Transform(double,double)) - constructor in class [Transform](http://docs.google.com/projects/CarnegieMellonGraphics2/Transform.html) [**Transform(double,double,double)**](http://docs.google.com/projects/CarnegieMellonGraphics2/Transform.html#Transform(double,double,double)) - constructor in class [Transform](http://docs.google.com/projects/CarnegieMellonGraphics2/Transform.html) [**Type**](http://docs.google.com/projects/CarnegieMellonGraphics2/Image..Type.html#Type) - member variable in typedef [Image::Type](http://docs.google.com/projects/CarnegieMellonGraphics2/Image..Type.html)

## U

[**UP\_ARROW**](http://docs.google.com/projects/CarnegieMellonGraphics2/NamedKey.html#UP_ARROW) - static variable in class [NamedKey](http://docs.google.com/projects/CarnegieMellonGraphics2/NamedKey.html)

## W

[**waitForKeyboardEvent()**](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html#waitForKeyboardEvent()) - member function in class [Window](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html) Wait for a keyboard event to occur and then return the event. [**waitForMouseEvent()**](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html#waitForMouseEvent()) - member function in class [Window](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html) Wait for a mouse event to occur and then return the event. [**waitForTimerEvent()**](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html#waitForTimerEvent()) - member function in class [Window](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html) Wait for a timer event to occur and then return the event. [**WHITE**](http://docs.google.com/projects/CarnegieMellonGraphics2/Color.html#WHITE) - static variable in class [Color](http://docs.google.com/projects/CarnegieMellonGraphics2/Color.html) [**WHITE**](http://docs.google.com/projects/CarnegieMellonGraphics2/Style.html#WHITE) - static variable in class [Style](http://docs.google.com/projects/CarnegieMellonGraphics2/Style.html) [**Window**](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html) - class in [CarnegieMellonGraphics2](http://docs.google.com/projects/CarnegieMellonGraphics2/project-summary.html) The Window class is used to represent that actual drawing surfaces. [**~Window()**](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html#~Window()) - constructor in class [Window](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html) [**Window(const int,const int,const std::string&,bool,int,int)**](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html#Window(constint,constint,conststd::string&,bool,int,int)) - constructor in class [Window](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html) Construct a new window with the specified size and title. [**Window(int,int,int,int,const std::string&,bool,int,int)**](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html#Window(int,int,int,int,conststd::string&,bool,int,int)) - constructor in class [Window](http://docs.google.com/projects/CarnegieMellonGraphics2/Window.html) An alternate constructor where you get to choose the position of the window as well as all of the other usual parameters. [**WindowManager**](http://docs.google.com/projects/CarnegieMellonGraphics2/WindowManager.html) - class in [CarnegieMellonGraphics2](http://docs.google.com/projects/CarnegieMellonGraphics2/project-summary.html) The WindowManager class is used when operating the library in an event driven mode.

| | [**Overview**](http://docs.google.com/index-overview-summary.html) | **Project** | **Class** | [**Tree**](http://docs.google.com/index-overview-tree.html) | [**Deprecated**](http://docs.google.com/index-deprecated-list.html) | **Index** | | --- | --- | --- | --- | --- | --- | | | ***CarnegieMellonGraphics*** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| [**FRAMES**](http://docs.google.com/index.html)    [**NO FRAMES**](http://docs.google.com/index-all.html) |