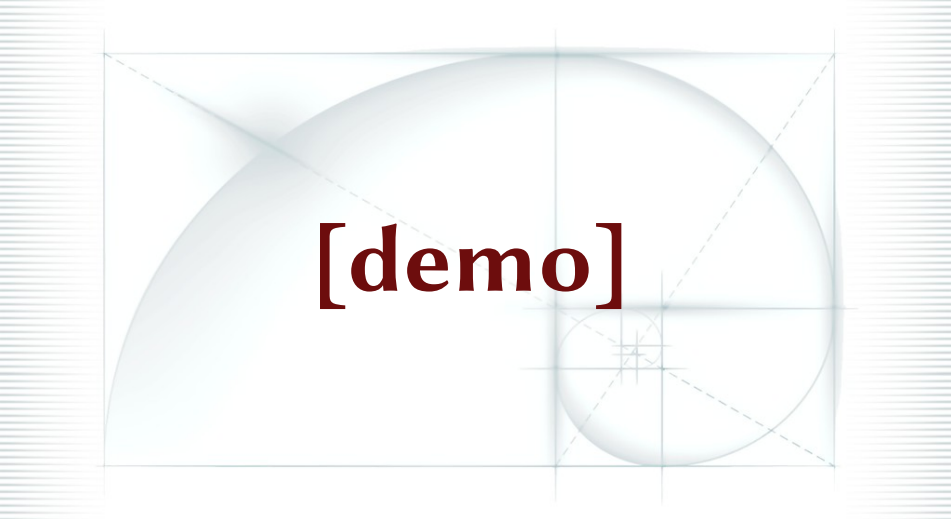


Undo the World

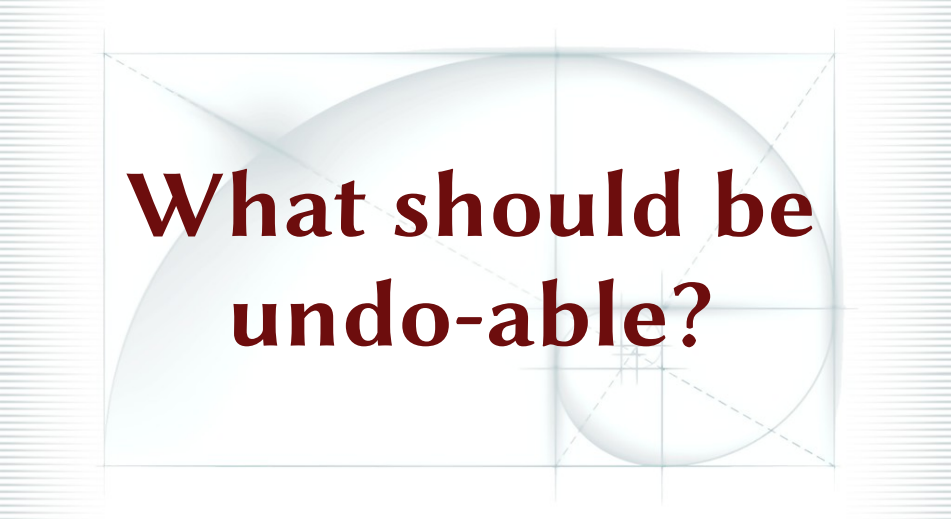
Martin McClure
Principal Engineer



GEMTALK
SYSTEMS

The background of the slide features a light blue geometric design. It includes a large rectangle with a dashed diagonal line from the top-left to the bottom-right. A large, light blue arc is drawn from the bottom-left corner towards the top-right. In the lower-right quadrant, there is a smaller circle with a spiral line (Fibonacci spiral) that starts from the center and winds outwards, passing through several points marked with small crosses. The word "[demo]" is centered over this background.

[demo]



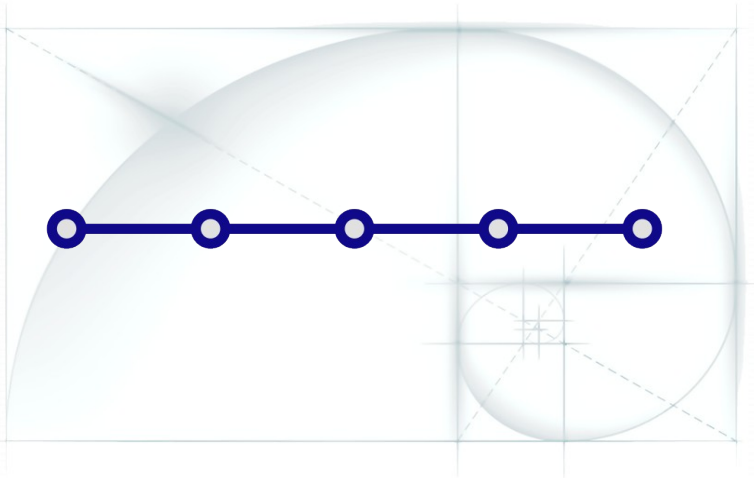
**What should be
undo-able?**

The background of the slide features a light blue, semi-transparent geometric design. It consists of a large rectangle divided into a grid of smaller squares. A dashed line runs diagonally from the top-left corner to the bottom-right corner. A series of concentric, overlapping circles or arcs are drawn within the grid, creating a spiral effect that resembles the Fibonacci spiral. The word "Everything!" is centered over this design in a bold, dark red serif font.

Everything!

A light blue background featuring a faint, large-scale Fibonacci spiral. The spiral is composed of a series of overlapping squares and quarter-circles, with a dashed line tracing its path. The text is centered over this background.

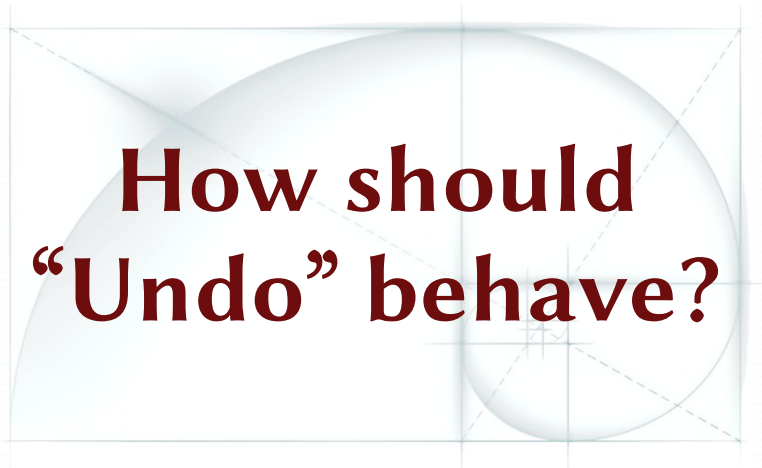
Everything!
Why?



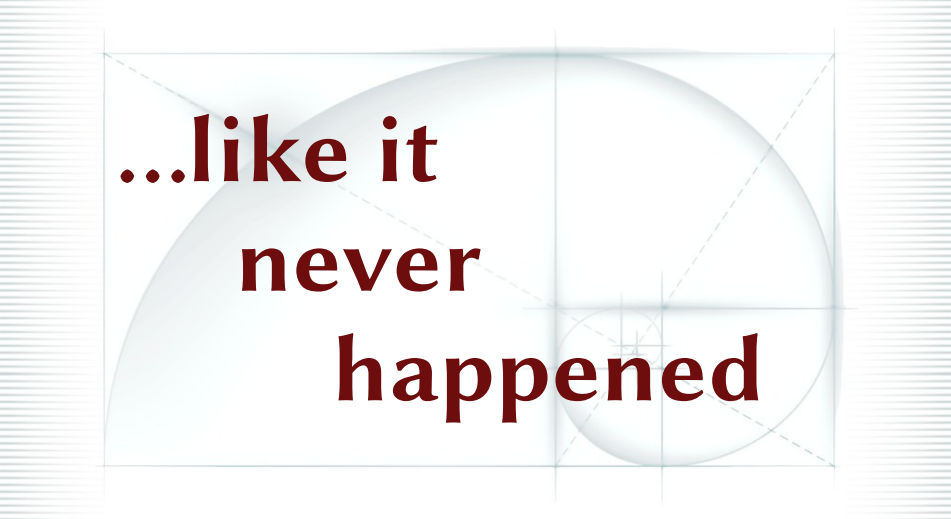


A light blue background featuring a faint, large-scale Fibonacci spiral. The spiral is composed of a series of overlapping squares and quarter-circles, with a dashed line tracing its path. The text is centered over this background.

Everything!
Why?



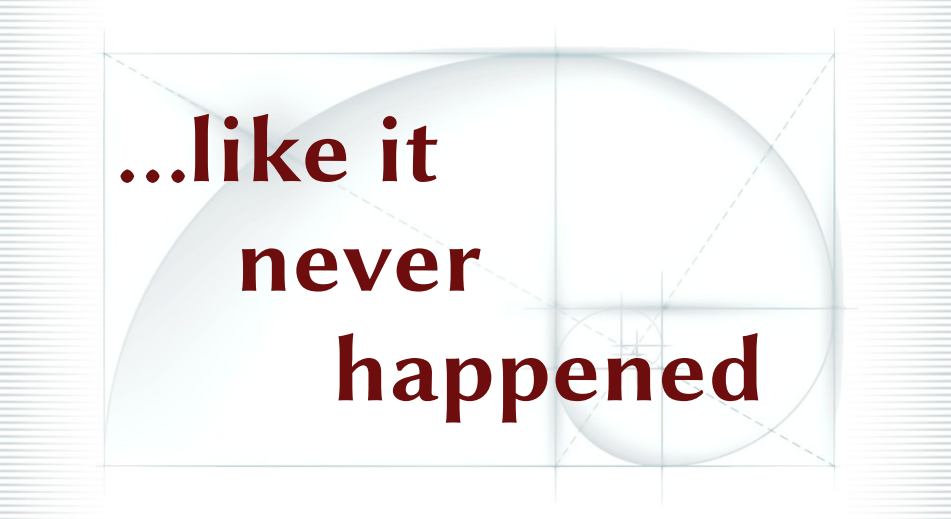
**How should
“Undo” behave?**

A light blue background featuring a faint, large-scale Fibonacci spiral. The spiral is composed of a series of quarter-circles of increasing radii, centered at the origin of a coordinate system. The entire composition is overlaid with a grid of thin, light blue lines, including both horizontal and vertical lines, as well as dashed diagonal lines forming an 'X' shape across the frame.

**...like it
never
happened**



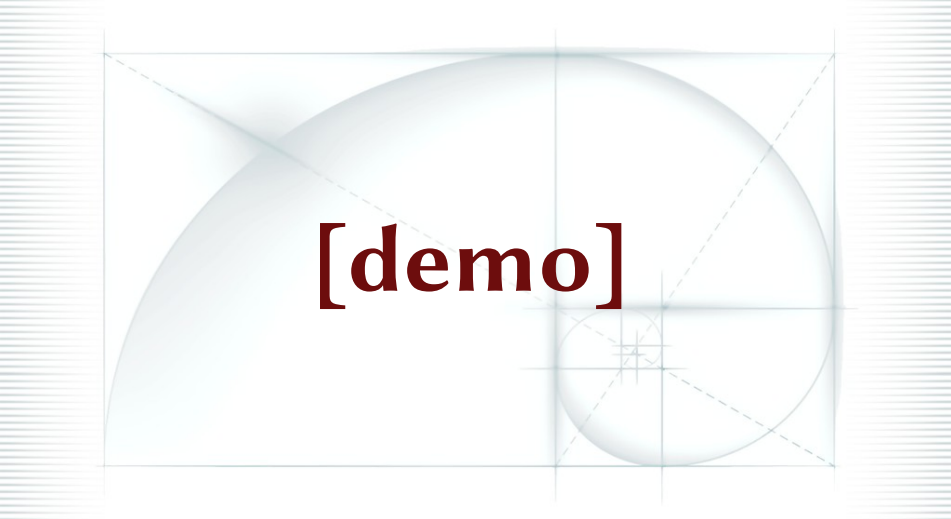
**How should
“Redo” behave?**

A light blue background featuring a faint, large-scale Fibonacci spiral. The spiral is composed of a series of quarter-circles of increasing radii, centered at the origin of a coordinate system. The entire composition is overlaid with a grid of thin, light blue lines, including both horizontal and vertical lines, as well as dashed diagonal lines forming an 'X' shape across the frame.

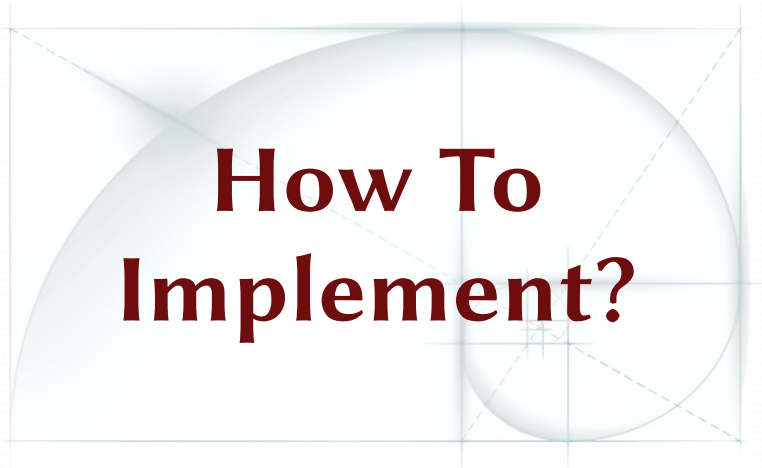
**...like it
never
happened**

A light blue background featuring a faint, large-scale Fibonacci spiral. The spiral is composed of concentric quarter-circles and is overlaid with a grid of thin, light blue lines. Dashed diagonal lines also cross the frame, creating a technical or architectural drawing aesthetic.

**...like Undo
never
happened**

The background of the slide features a light blue geometric design. It includes a large rectangle with a dashed diagonal line from the top-left to the bottom-right. A large, light blue arc is drawn within this rectangle. In the bottom-right corner, there is a smaller square containing a spiral that follows the Fibonacci sequence, with its center marked by a small crosshair. The word "[demo]" is centered over this background.

[demo]

A geometric diagram featuring a circle with a light blue gradient fill. The circle is centered within a square frame defined by thin blue lines. Dashed blue lines represent the diagonals of the square, intersecting at the center of the circle. The text "How To Implement?" is centered over the circle in a bold, dark red serif font.

**How To
Implement?**

The background of the slide features a light blue, semi-transparent geometric design. It consists of a large rectangle containing a spiral that starts from a small circle in the lower right and expands outwards, following the golden ratio. The spiral is composed of quarter-circles of decreasing radii. Dashed lines represent the diagonals of the rectangles that form the spiral's structure. The word "Action" is centered over this design.

Action

A faint, light blue background featuring a large Fibonacci spiral (golden spiral) that starts from the bottom right and expands counter-clockwise towards the top left. The spiral is overlaid on a grid of thin, light blue lines, including a large square and several smaller rectangles and circles that define the spiral's path. Dashed diagonal lines also cross the grid.

Action
target:

MyAction

name

performAction

undoAction

redoAction

discardAction

The background features a large, light blue sphere with a subtle gradient. Overlaid on the sphere is a light blue grid. A dashed golden spiral is visible, starting from a point near the bottom right and winding outwards. The text is positioned in the upper left quadrant of the image.

UndoManager

performAction:

undo

redo

A diagram of a Fibonacci spiral, also known as a golden spiral, is shown in the background. It is a light blue, semi-transparent graphic that features a series of quarter-circle arcs connected by a spiral line. The spiral is contained within a square frame, with dashed lines indicating the construction of the spiral from a series of nested squares. The text "The takeaway:" is overlaid on the center of the spiral.

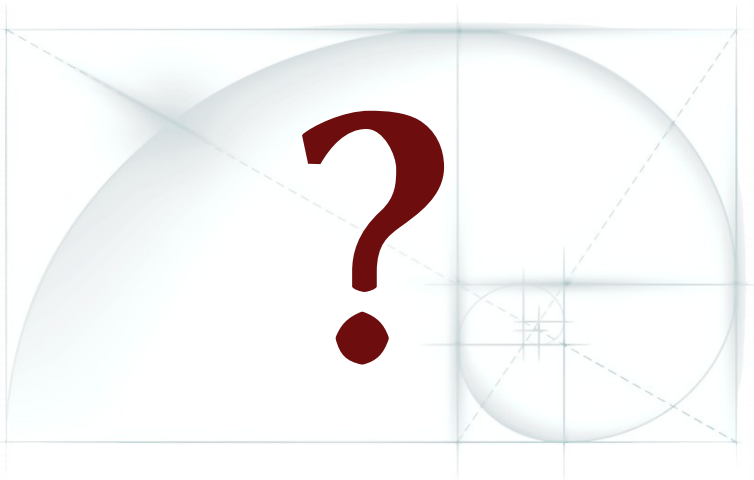
The takeaway:

The background features a light blue sphere with a subtle gradient, positioned centrally. Overlaid on the sphere and the white background are several thin, light blue lines. These include a vertical line passing through the center of the sphere, a horizontal line passing through its equator, and two diagonal lines forming an 'X' shape. Additionally, there are faint dashed lines and small crosshair-like symbols, suggesting a technical or architectural drawing style.

**“Do you really
want to...”**



**Tragic lost
opportunity
for “undo”**



Undo the World

Martin McClure
Principal Engineer



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