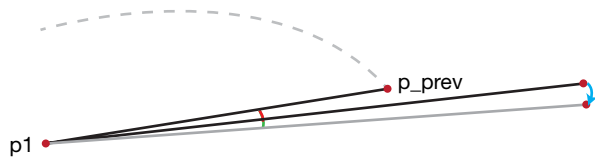


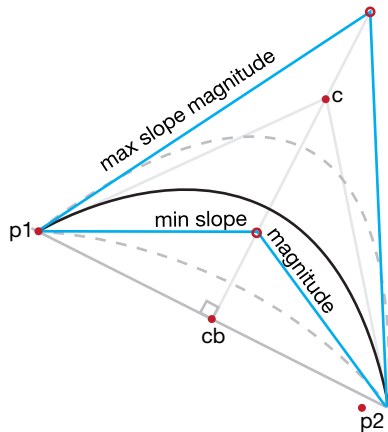
Params.min_linear_acuteness



If the angle $p_prev, p1, p2$ doesn't pass `Params.min_linear_acuteness` (ie. is too narrow and thus hard to detect/draw), shift $p2$ away from p_prev , so long as:

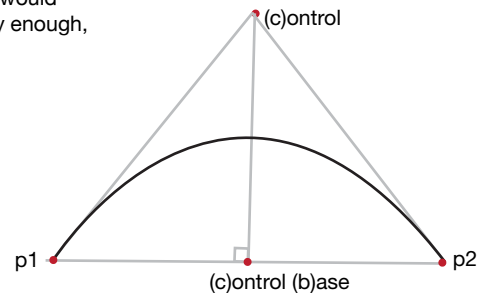
- a) this doesn't push $p2$ off the screen; and
- b) $p2$ isn't the original starting location

Params.slope_magnitude



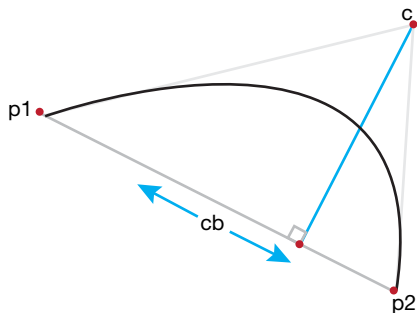
This sets the height of the control point above its base based on a random choice between upper and lower bound in the param. Rather than being an absolute height, this value actually sets the acuteness of the angle from the closer of $p1$ or $p2$ to the control point (in this example, the control is equidistant to $p1$ & $p2$ so this detail is irrelevant). I did it this way because the absolute height can be imperceptible or intractably abrupt, depending on the distance between $p1$ and $p2$, whereas slope is a much more salient and relative feature.

A value of 0 would result in a curve with no slope (ie. a line) and a value of 1 is impossible as it would define $p1 \rightarrow c$ as a 180° line and, obviously enough, parallel lines don't intersect.



Basic Curve Reference

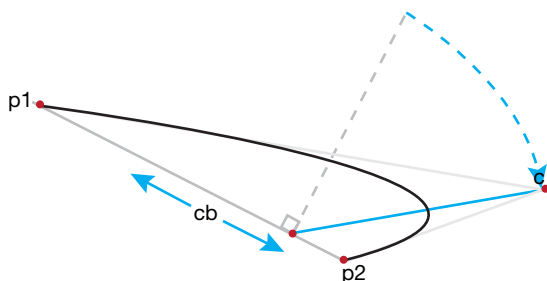
Params.peak_shift



Moves the control base away from the midpoint of $p1 \rightarrow p2$; the setting determines the *magnitude* of the shift, but the direction of the shift (ie. toward or away from $p1$) is determined by a coin toss for each curved segment.

A value of 0 would result in a bell-curve shape where cb and c extend from the midpoint of $p1 \rightarrow p2$. A value of 1 extends cb to c from either of $p1$ or $p2$, producing essentially a right triangle.

Params.curve_shear



Whereas normally, and in both previous settings, the line from $cb \rightarrow c$ was perpendicular to the line $p1 \rightarrow p2$, shear moves c without moving cb .

A value of 0 results in no shear; $cb \rightarrow c$ remains perpendicular to $p1 \rightarrow p2$. A value of 1 creates infinite shear (so don't do that). Basically small values for shear will appear to do very little, whereas large values get ludicrous quickly; the salience of shear also varies a lot with peakshift. The major contribution of shear to the resulting curve is that it can begin by curving away from either of $p1$ or $p2$ (again; coin toss).