Device Orientation

Block Group:	Browser API
Block Icon:	

Returns the DeviceOrientationEvent alpha, beta, and gamma of the device, if available.

Input/Output Properties

This property can take input and give output.

- enabled *(boolean)*

enabled specifies whether the rotation is currently being tracked and reported.

Output Properties

These properties can give output. They cannot take input.

- alpha
- beta
- gamma

alpha returns the roll, or rotation around the Z axis, of the device. This movement typically looks like a change between horizontal and vertical orientation of the screen. The figure is represented from 0 to 360 degrees. Zero or 360 is the orientation when the page is loaded.

beta returns the pitch, or rotation around the X axis, of the device. This movement typically looks like moving the bottom or top of the screen forward or backward. The figure is represented from -180 to 180 degrees. Zero is the orientation when the device is lying flat and screen-up on a level surface.

gamma returns the yaw, or rotation around the Y axis, of the device. This movement typically looks like moving the left or right side of the screen forward or backward. The figure is represented from -90 to 90 degrees. Zero is the orientation when the page is loaded, and 0 is also the exact reverse of that orientation.
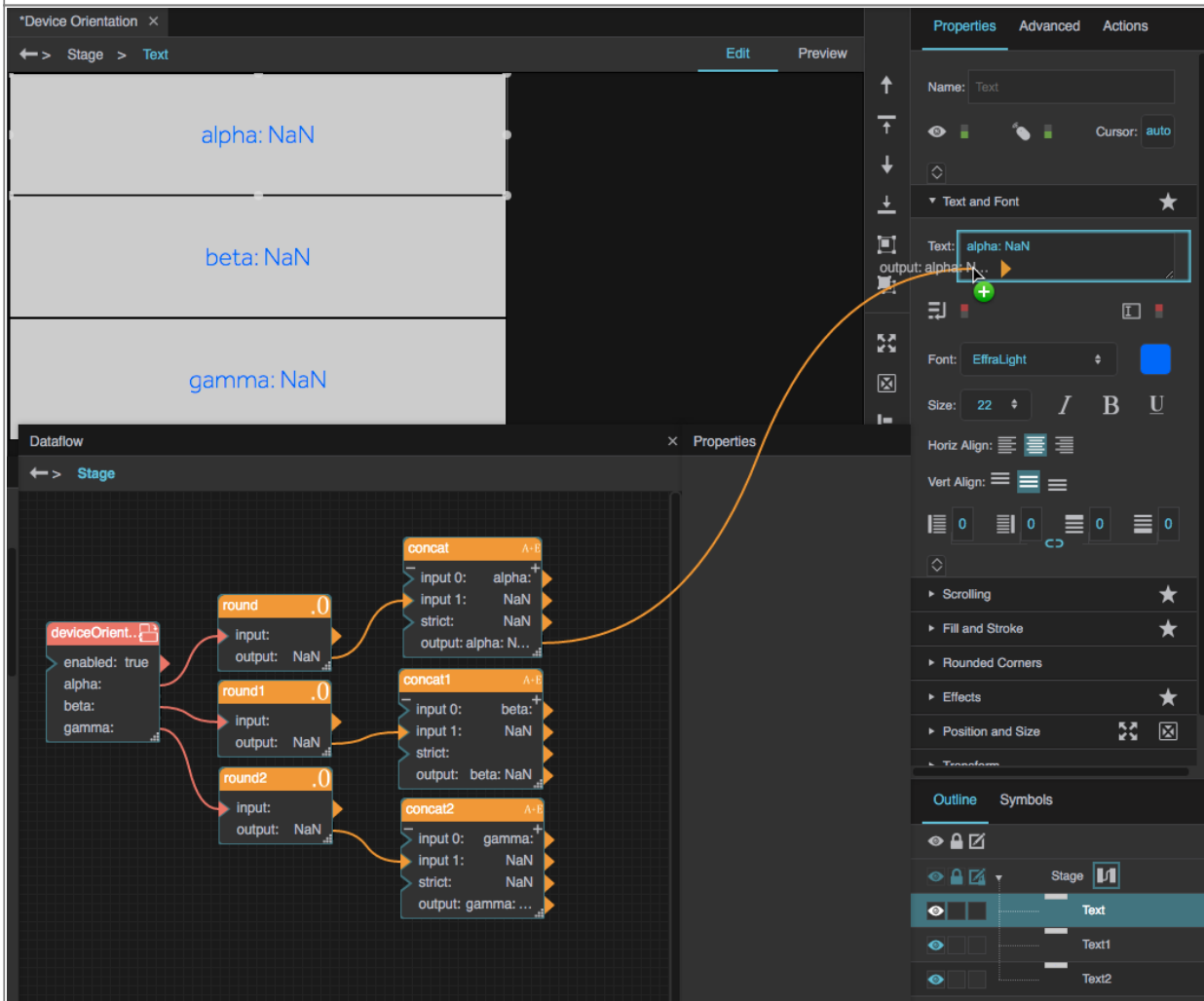
Remarks

Different devices and browsers might report alpha, beta, and gamma differently. For example, the direction of rotation that increases or decreases a value might vary by device.

You can read more about DeviceOrientationEvent here.

Model

These are basic uses of the block.

Dataflow Model	Description
	The rounded alpha value, concatenated with an identifying text string, is bound to the Text property of the Text component. When the page is opened on a device that monitors orientation, the text component will report the alpha value.

Previous: Geo-Location

[Next: Device Motion](#)