# PinchGesture

描述：用于触发捏合手势，触发捏合手势的最少手指为2指，最大为5指，最小识别距离为3vp。

Api：从API Version 7开始支持

接口：PinchGesture(value?: { fingers?: number, distance?: number })

参数：

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| **参数名称** | **参数类型** | **必填** | **参数描述** |
| fingers | number | 否 | 触发捏合的最少手指数, 最小为2指，最大为5指。默认值：2 |
| distance | number | 否 | 最小识别距离，单位为vp。默认值：3.0 |

事件：

|  |  |
| --- | --- |
| **名称** | **功能描述** |
| onActionStart(event:(event?: [GestureEvent](https://developer.harmonyos.com/cn/docs/documentation/doc-references-V3/ts-gesture-settings-0000001430440673-V3%22%20%5Cl%20%22ZH-CN_TOPIC_0000001430440673__gestureevent%E5%AF%B9%E8%B1%A1%E8%AF%B4%E6%98%8E)) => void) | Pinch手势识别成功回调。 |
| onActionUpdate(event:(event?: [GestureEvent](https://developer.harmonyos.com/cn/docs/documentation/doc-references-V3/ts-gesture-settings-0000001430440673-V3%22%20%5Cl%20%22ZH-CN_TOPIC_0000001430440673__gestureevent%E5%AF%B9%E8%B1%A1%E8%AF%B4%E6%98%8E)) => void) | Pinch手势移动过程中回调。 |
| onActionEnd(event:(event?: [GestureEvent](https://developer.harmonyos.com/cn/docs/documentation/doc-references-V3/ts-gesture-settings-0000001430440673-V3%22%20%5Cl%20%22ZH-CN_TOPIC_0000001430440673__gestureevent%E5%AF%B9%E8%B1%A1%E8%AF%B4%E6%98%8E)) => void) | Pinch手势识别成功，手指抬起后触发回调。 |
| onActionCancel(event: () => void) | Pinch手势识别成功，接收到触摸取消事件触发回调。 |

示例代码：

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| @Entry@Componentstruct PinchGestureExample { @State scaleValue: number = 1; @State pinchValue: number = 1; @State pinchX: number = 0; @State pinchY: number = 0; build() { Column() { Column() { Text('PinchGesture scale:\n' + this.scaleValue).fontSize(20) Text('PinchGesture center:\n(' + this.pinchX + ',' + this.pinchY + ')').fontSize(20) } .height(300) .width(300) .padding(20) .border({ width: 3 }) .margin({ top: 100 }) .scale({ x: this.scaleValue, y: this.scaleValue, z: 1 }) // 三指捏合触发该手势事件 .gesture( PinchGesture({ fingers: 3 }) .onActionStart((event: GestureEvent) => { console.info('Pinch start'); }) .onActionUpdate((event: GestureEvent) => { this.scaleValue = this.pinchValue \* event.scale; this.pinchX = event.pinchCenterX; this.pinchY = event.pinchCenterY; }) .onActionEnd(() => { this.pinchValue = this.scaleValue; console.info('Pinch end'); }) ) }.width('100%') }} |

示例效果：

