INSTRUCTIONS

Step 1:
On card stock, print pages 2 through 12 of this document. These pages are the front sides of the Touch Gesture Reference Cards.

Step 2:
Without rearranging the pages, place the stack of printouts back into your printer such that the backs of the cards can be printed on the blank sides of the printouts. For many desktop printers, this means placing the pages blank-side down and oriented such that the page numbers on the printed sides are located to the upper right. Requirements for your particular printer may vary.

Step 3:
Print pages 13 through 23 of this document. These pages are the back sides of the cards. If you wish to print out some suits within the deck but not others, please refer to the table below for which front side pages match which back side pages.

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Step 4:
Cut out the individual cards, following the gray dashed lines on the back side pages. On cards that have them, remember to cut around the rounded or beveled corners (this pertains to all cards except for those in the Core Gestures suit).

Supporting materials for this guide can be found online at: http://www.lukew.com/touch/

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**Tap**  
Briefly touch surface with fingertip.

**Double Tap**  
Rapidly touch surface twice with fingertip.

**Drag**  
Move fingertip over surface without losing contact.

**Flick**  
Quickly brush surface with fingertip.

**Pinch**  
Touch surface with two fingers and bring them closer together.

**Spread**  
Touch surface with two fingers and move them apart.

**Press**  
Touch surface for extended period of time.

**Press + Tap**  
Press surface with one finger and briefly touch surface with second finger.
**Press+Drag • •**
Press surface with one finger and move second finger over surface without losing contact.

**Rotate • • •**
Touch surface with two fingers and move them in a clockwise or counterclockwise direction.

---

**Press+Drag • •**
Press surface with one finger and move second finger over surface without losing contact.

**Rotate • • •**
Touch surface with two fingers and move one finger in a clockwise or counterclockwise direction.

---

**Rotate • • •**
Touch surface with two fingers and move them in a clockwise or counterclockwise direction.

**Change mode**
Press
Touch surface for extended period of time.

**Open**
**Double Tap**
Rapidly touch surface twice with fingertip.

**Select**
**Tap**
Briefly touch surface with fingertip.

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**CORE GESTURES**

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**CORE GESTURES**

**MAJOR USER ACTIONS:**
**BASIC ACTIONS**

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**MAJOR USER ACTIONS:**
**BASIC ACTIONS**
<table>
<thead>
<tr>
<th>MAJOR USER ACTIONS: OBJECT-RELATED ACTIONS</th>
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<tbody>
<tr>
<td><strong>Adjust</strong> ⋅ ⋅ ⋅</td>
<td><strong>Adjust</strong> ⋅ ⋅ ⋅</td>
<td><strong>Adjust</strong> ⋅ ⋅ ⋅</td>
<td><strong>Bundle</strong></td>
</tr>
<tr>
<td>Press + drag ⋅ ⋅</td>
<td>Press + drag ⋅ ⋅</td>
<td>Lasso + cross</td>
<td>Press + tap, then drag</td>
</tr>
<tr>
<td>Press surface with one finger and move second finger over surface without losing contact.</td>
<td>Press surface with one finger and move second finger over surface without losing contact.</td>
<td>Make circular motion with finger, then cross over selected object.</td>
<td>Touch first object while second finger taps other objects, the move selected objects by dragging first finger.</td>
</tr>
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</tr>
<tr>
<td><strong>Delete</strong></td>
<td><strong>Duplicate</strong></td>
<td><strong>Move</strong> ⋅ ⋅ ⋅</td>
<td><strong>Move</strong> ⋅ ⋅ ⋅</td>
</tr>
<tr>
<td>Drag (across item or off-screen)</td>
<td>Tap (source + destination)</td>
<td>Drag + drop</td>
<td>Multi-finger drag</td>
</tr>
<tr>
<td>Move fingertip over surface without losing contact.</td>
<td>Touch object, then touch elsewhere on surface.</td>
<td>Move fingertip over surface without losing contact.</td>
<td>Move two to five fingertips over surface without losing contact.</td>
</tr>
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</table>
MAJOR USER ACTIONS:
OBJECT-RELATED ACTIONS

Move
Flick
Quickly brush surface with fingertip.

Rotate
One-handed rotate
Touch surface with two fingers and move them in a clockwise or counterclockwise direction.

Scale down
Pinch
Touch surface with two fingers and bring them closer together.

Scale up
Spread
Touch surface with two fingers and move them apart.

Move
Press + tap
With one finger on object, touch elsewhere on surface with second finger.

Rotate
Two-handed rotate
Touch surface with two fingers and move them in a clockwise or counterclockwise direction.

Scale down
Pinch
Touch surface with two fingers and bring them closer together.

Scale up
Pinch
Touch surface with five fingers and bring them closer together.
**MAJOR USER ACTIONS:**

**OBJECT-RELATED ACTIONS**

- **Scale up** • •
  - **Splay**
  - Touch surface with five fingers and move them apart.

**NAVIGATING ACTIONS**

- **Adjust view (rotate)** • • •
  - **Two-handed rotate** • •
  - Touch surface with two fingers and move them in a clockwise or counterclockwise direction.

- **Adjust view (zoom in)** • •
  - **Spread**
  - Touch surface with two fingers and move them apart.

- **Adjust view (zoom in)** • •
  - **Double tap**
  - Rapidly touch surface twice with fingertip.

- **Adjust view (zoom out)** • •
  - **Pinch**
  - Touch surface with two fingers and bring them closer together.

- **Adjust view (zoom out)** • •
  - **Double tap**
  - Rapidly touch surface twice with fingertip.
**Display commands**

- **Press**
  Touch surface for extended period of time.

- **Press + tap**
  Press surface with one finger and briefly touch surface with second finger.

- **Double tap**
  Rapidly touch surface twice with fingertip.

- **Corner tap**
  Touch specific corner of surface with fingertip.

**Move through list**

- **Two-finger drag**
  Move to previous/next item in list.

- **Two-handed rotate**
  Touch surface with two fingers and move them in a clockwise or counterclockwise direction.

- **Two-handed rotate**
  Touch surface with two fingers and move one finger in a clockwise or counterclockwise direction.

- **One-handed rotate**
  Touch surface with two fingers and move them in a clockwise or counterclockwise direction.
**Pan**

*Drag hand*

Move fingers and palm of one hand over surface without losing contact.

**Scroll • • •**

*Drag*

Move fingertip over scrollbar without losing contact.

**Scroll • • •**

*Two-finger drag*

Move two fingers up or down across surface.

**Scroll • • •**

*Press*

Touch scrollbar for extended period of time.

**Scroll fast**

*Flick*

 Quickly brush surface with fingertip in the direction you want to scroll.

**Stop scrolling**

*Tap*

Briefly touch surface with fingertip when a scroll is in progress.

**Scrub**

*Drag*

Move fingertip over scrollbar without losing contact.

**Accept**

*Draw a check mark on surface with fingertip.*
**Cut**
Draw a slash on surface with fingertip.

**Get help**
Draw a question mark on surface with fingertip.

**Reject**
Draw an “X” on surface with fingertip.

**Undo**
Scratch out area on surface with fingertip.

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**MAJOR USER ACTIONS:**
**DRAWING ACTIONS**

**Tap**
Core gesture: Tap
A user gesture used to press or select a control or link (analogous to a single click in a desktop application). To tap, users make a quick up-and-down motion with a finger, lightly striking the screen.

**Double tap**
Core gesture: Double tap
A user gesture used to zoom in or out of content or an image. A double tap consists of two quick taps.

**Flick**
Core gesture: Flick
A user gesture used to scroll or pan quickly. To flick, users place a finger on the screen and quickly swipe it in the desired direction.

**Drag**
Core gesture: Drag
A user gesture used to scroll, move the viewport, or pan. To drag, users place a finger on the screen and move it in the desired direction without lifting it from the screen.

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**PLATFORM SUPPORT:**
**APPLE IOS GESTURES**
Pinch open
Core gesture: Spread
A two-finger user gesture used to zoom in. To pinch open, users place the thumb and a finger (or two fingers) close together on the screen and move them apart without lifting them from the screen.

Pinch close
Core gesture: Pinch
A two-finger user gesture used to zoom out. To pinch close, users place the thumb and a finger (or two fingers) a little distance apart on the screen and move them toward each other without lifting them from the screen.

Touch + hold
Core gesture: Press
A user gesture used to display an information bubble, magnify content under the finger, or to perform specifications in built-in applications and features. To touch and hold, users touch the screen, leaving their finger motionless until the information is displayed or the action occurs.

Two-finger scroll
Core gesture: Drag (two-finger)
A user gesture used to scroll content in an element with overflow capability or a scrollable in-line frame element. A two-finger scroll is a drag performed with two fingers moving together in the same direction.

Tap
Core gesture: Tap
No description provided.

Double tap
Core gesture: Double tap
No description provided.

Flick
Core gesture: Flick
No description provided.

Drag
Core gesture: Drag
No description provided.
### Pinch
- **Core gesture:** Spread
- No description provided.

### Pinch
- **Core gesture:** Pinch
- No description provided.

### Touch + hold
- **Core gesture:** Press
- No description provided.

### Tap
- **Core gesture:** Tap
- Actions on an item in a two step process. Stop a list from scrolling. Single touch on the screen.

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### Double tap
- **Core gesture:** Double tap
- Toggle between “in” and “out” zoom states of a control or application.

### Touch + hold
- **Core gesture:** Press
- Shows options (context menu) for an item.

### Pan
- **Core gesture:** Drag
- Moves content via direct manipulation (content sticks to finger and follows). A pan can reorder or move a specific item.

### Flick
- **Core gesture:** Flick
- Moves content.
Pinch
Core gesture: Spread
Continuous zoom.

Pinch
Core gesture: Pinch
Continuous zoom.

PLATFORM SUPPORT: WINDOWS PHONE 7
MAJOR USER ACTIONS:
DRAWING ACTIONS

PLATFORM SUPPORT:
APPLE iOS GESTURES
MAJOR USER ACTIONS:

NAVIGATING ACTIONS

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<td><img src="image1.png" alt="Gesture 1" /></td>
<td><img src="image2.png" alt="Gesture 2" /></td>
<td><img src="image3.png" alt="Gesture 3" /></td>
<td><img src="image4.png" alt="Gesture 4" /></td>
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</tr>
<tr>
<td><img src="image5.png" alt="Gesture 5" /></td>
<td><img src="image6.png" alt="Gesture 6" /></td>
<td><img src="image7.png" alt="Gesture 7" /></td>
<td><img src="image8.png" alt="Gesture 8" /></td>
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