

# ARON SCHATZ'S IAB SINGLE PART EXPANDABLE AD

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## MRAID2 Expandable Compliance Ad.

### Goal of Ad

This ad will go through the life-cycle of a typical MRAID expandable ad with orientation support.

### This Creative Tests:

#### MRAID Methods Tested:

- `mraid.expand()`
- `mraid.getScreenSize()`
- `mraid.getCurrentPosition()`
- `mraid.getState()`
- `mraid.getExpandProperties()`
- `mraid.addEventListener()`
- `mraid.removeEventListener()`
- `mraid.close()`
- `mraid.setOrientationProperties()`
- `mraid.isViewable()`

#### MRAID Events Watched:

- `sizeChange`
- `stateChange`
- `error`
- `ready`

#### JavaScript Events Watched:

- `orientationchange`
- `onload`

### Behavior of Ad

#### Initial/Default State

- Initial placement: 140x50 DIP or higher.

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- Ad has a background of #000, color #f00.
- Ad adds listeners for MRAID events. A listener is removed and then added again for stateChange.
- Ad creates a button (span element) and places it inside the created div. It is centered using mraid.getCurrentPosition. (See Fig 1)
- Ad responds to rotation event in default state (hooks into sizeChange to reposition the div and button).

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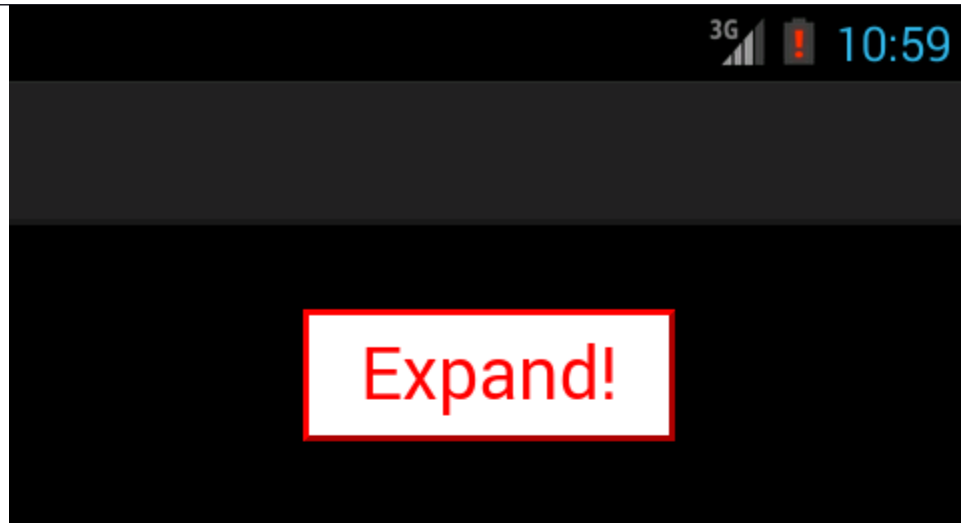


Fig 1 (Portrait) - Default state

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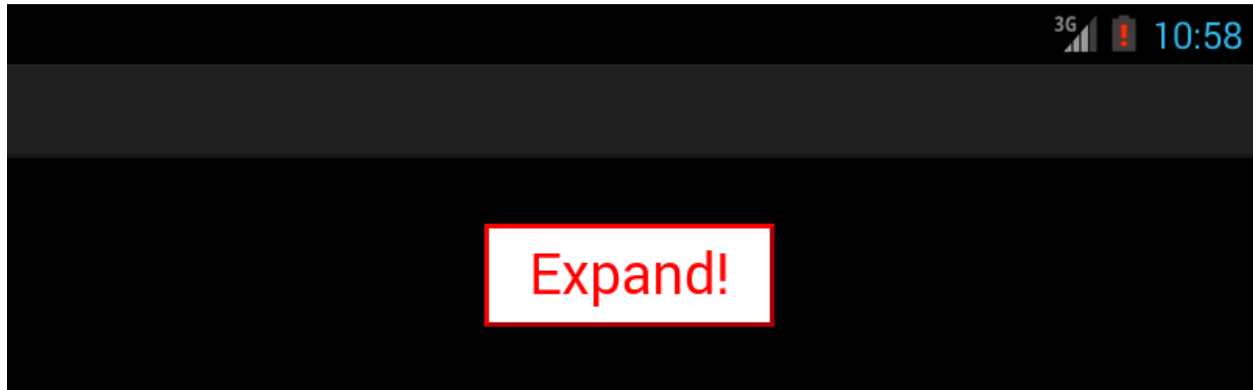


Fig 1 (Landscape) - Default state

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### Click “Expand!”

- Ad expands using `mraid.expand()`.
- A div will show and absolutely position itself using the values of `mraid.getCurrentPosition()`. There must be 15px margins on all edges (13px with outline). The div has a white background with red text and a 2px red outline.
- A button (span element) will be added to the bottom of the white div. It will have a black background and red text. This is positioned using `mraid.getCurrentPosition()`. (Fig 2)
- Ad rotates freely and `sizeChange` event will trigger and update to reflow the ad.
- On `width>height`, the button will be disabled and inform the user to rotate to portrait.
- Ad places a placeholder div in the top right to indicate where the SDK close button must be. This div is white with a red X. This area is only an indicator and has no close functionality on its own.
- Expanded ad places a div to show logging messages inline with the ad. This is positioned using CSS only and doesn't use MRAID for positioning. All `console.log` messages from this compliance ad are displayed here.

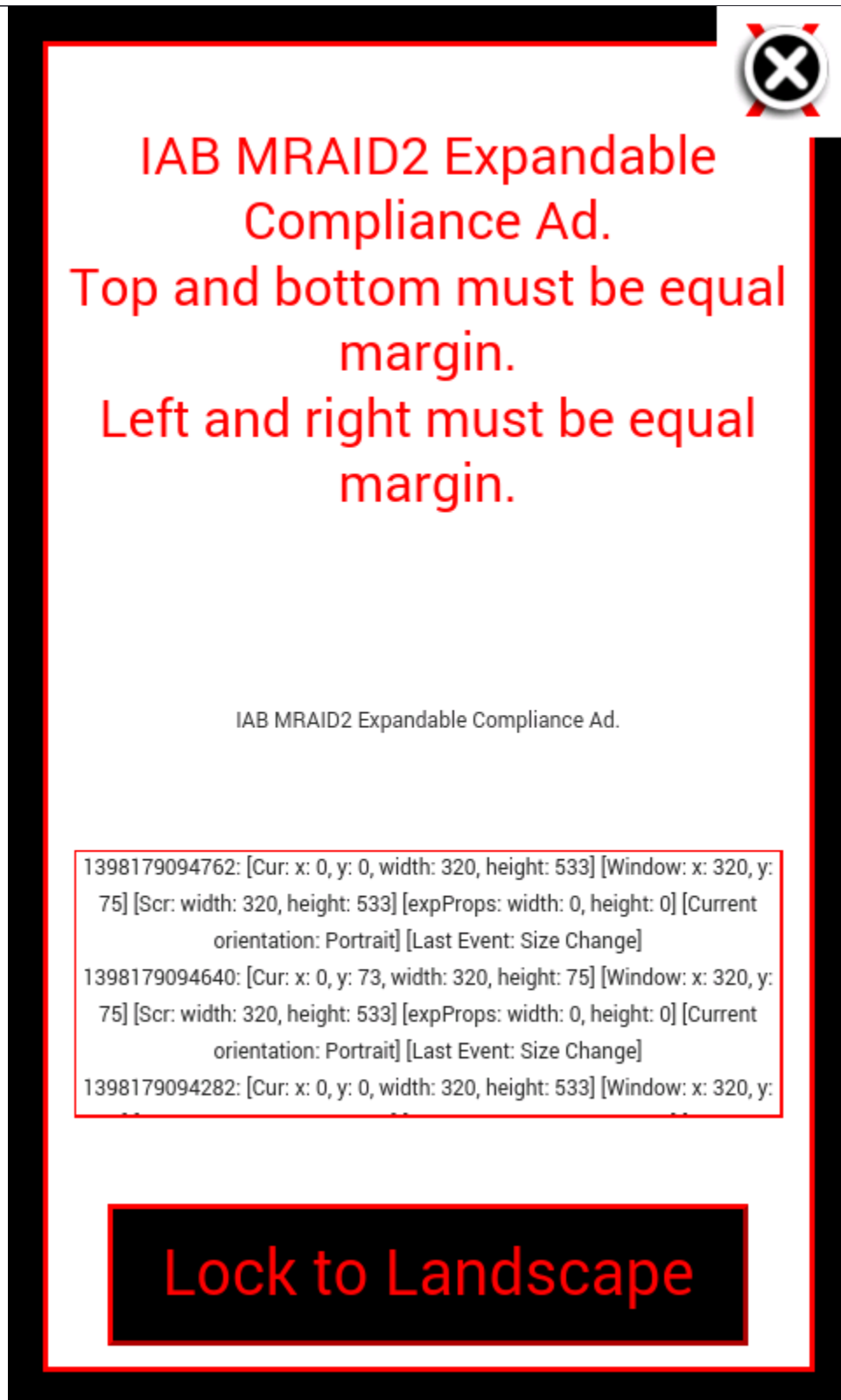


Fig 2 (Portrait) - Initial expanded state

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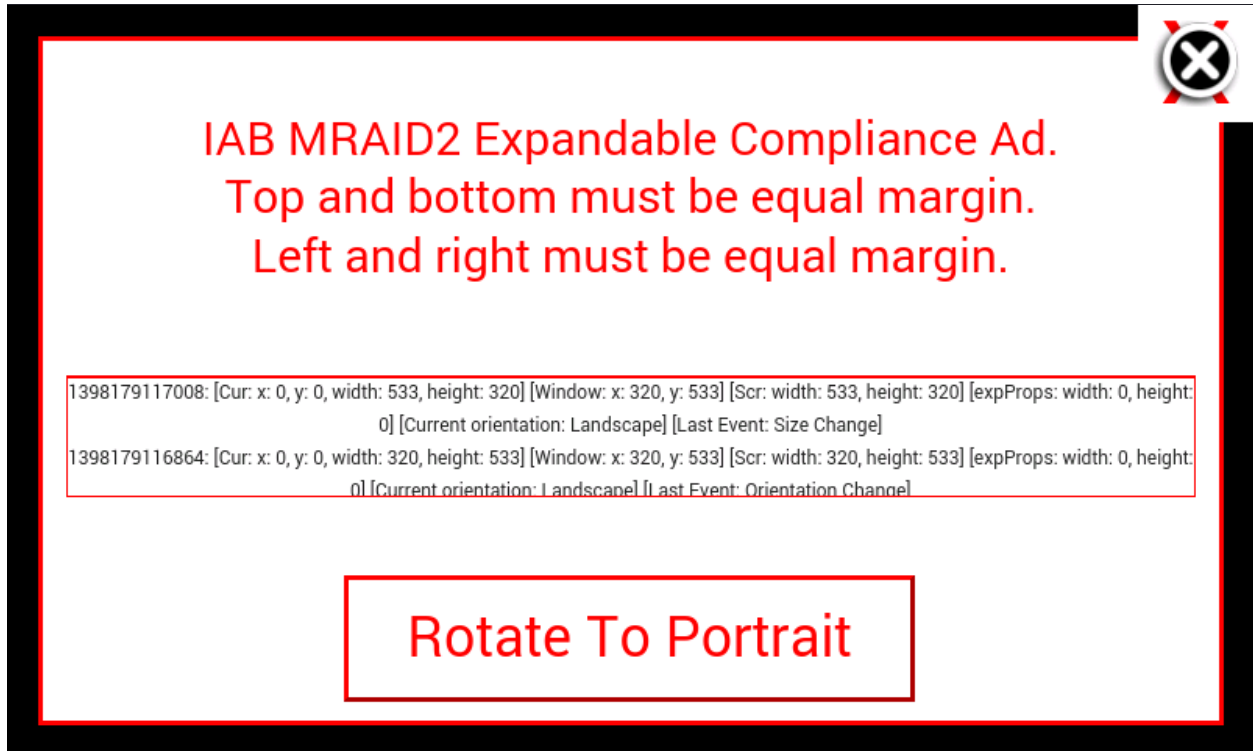


Fig 2 (Landscape) - Initial expanded state

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### Click “Lock to Landscape”

- Ad forces orientation to landscape and locks changes.
- Ad watches mraid.sizeChange() events for this process.
- White div will position itself according to mraid.getCurrentPosition and will remain with the same properties as the previous step.
- Ad removes button and creates another button (span element) located in the same place. (See Fig 3)





Fig 3 (Portrait) - Landscape locked orientation

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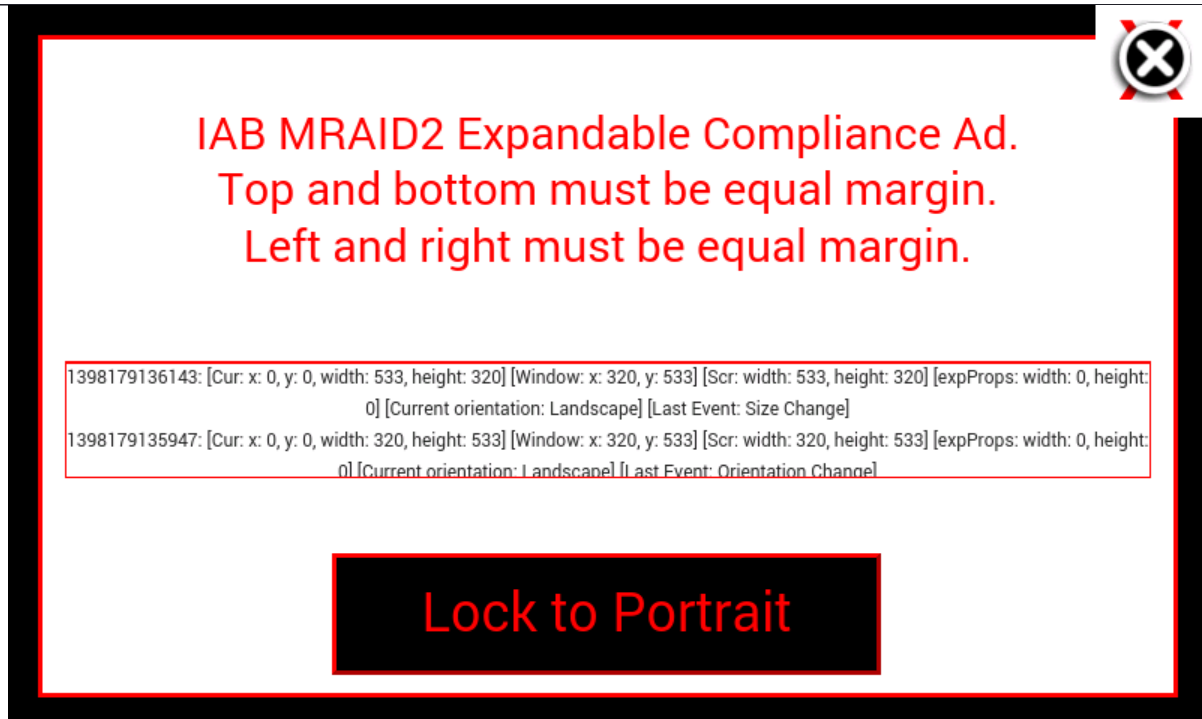


Fig 3 (Landscape) - Landscape locked orientation

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### Click “Lock to Portrait”

- Ad forces orientation to portrait and leaves the lock unchanged.
- Ad watches `mraid.sizeChange()` event to confirm change.
- White div will position itself according to `mraid.getCurrentPosition` and will remain with the same properties as the previous step.
- Ad removes button and creates another button (span element) located in the same place. (See Fig 4)

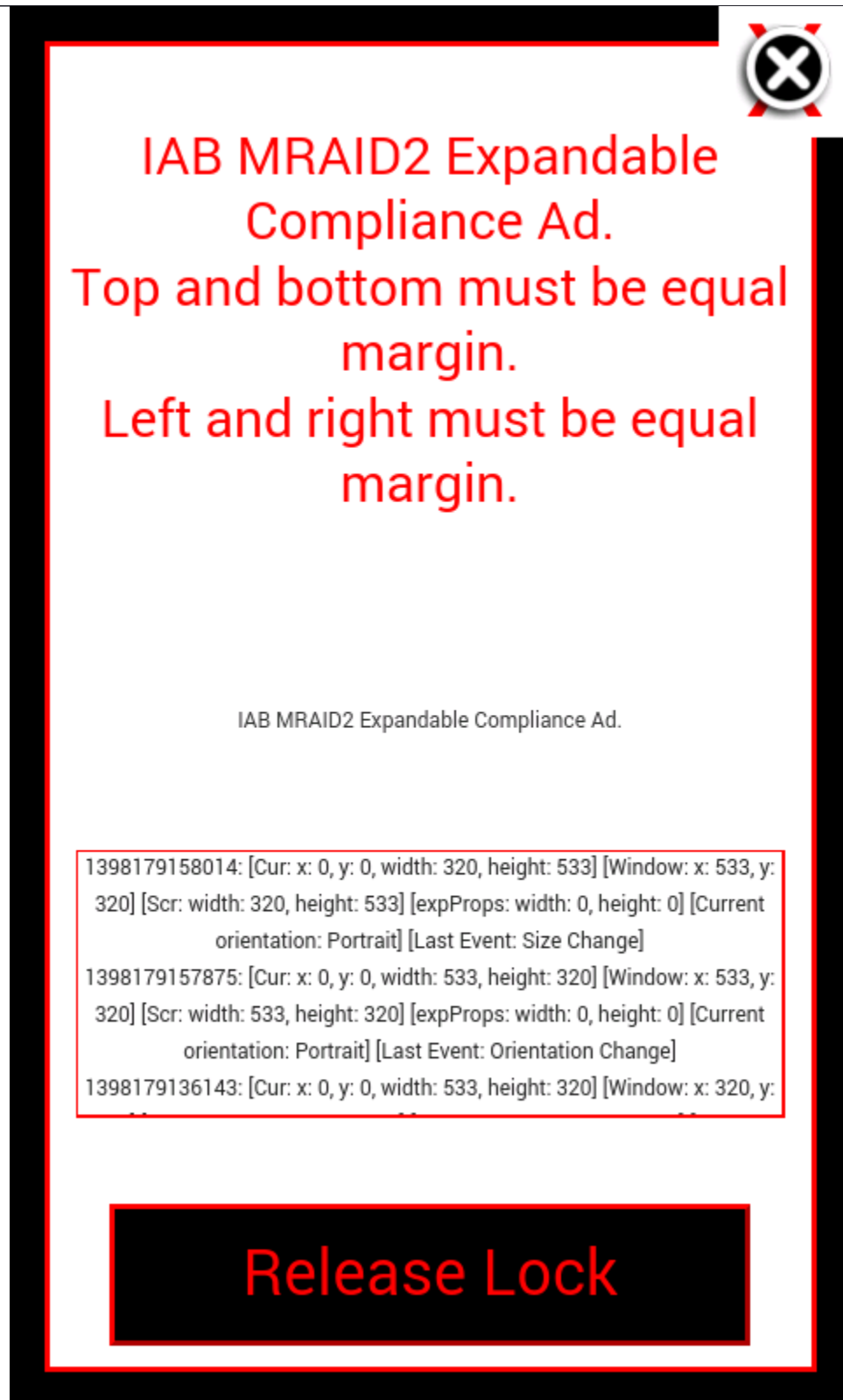


Fig 4 (Portrait) - Portrait locked orientation

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Fig 4 (Landscape) - Portrait locked orientation

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### Click “Release Lock”

- Ad unlocks orientation.
- Ad can freely rotate.
- White div will position itself according to `mraid.getCurrentPosition` and will remain with the same properties as the previous step. (See Fig 5)

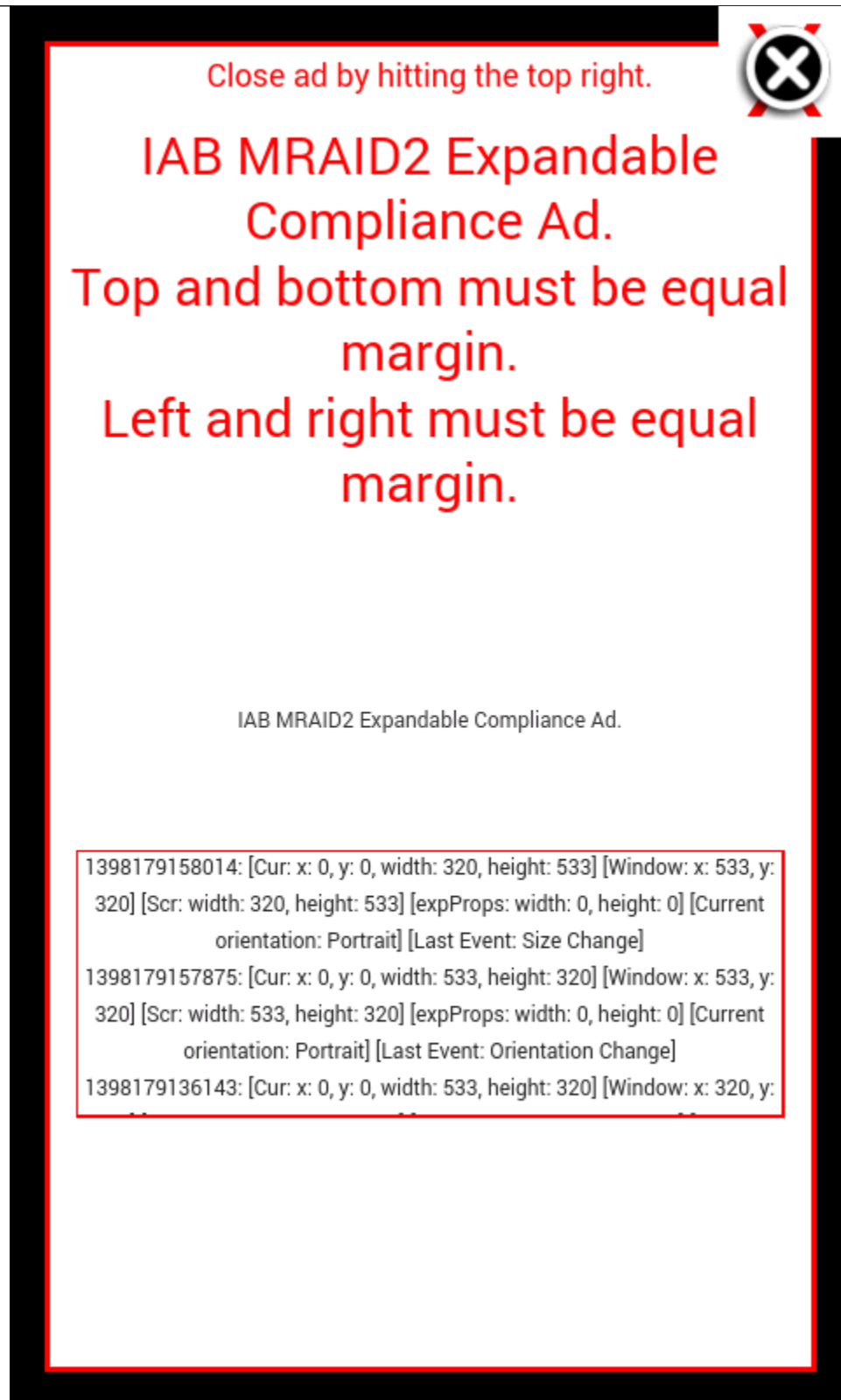


Fig 5 (Portrait) – Final expanded step

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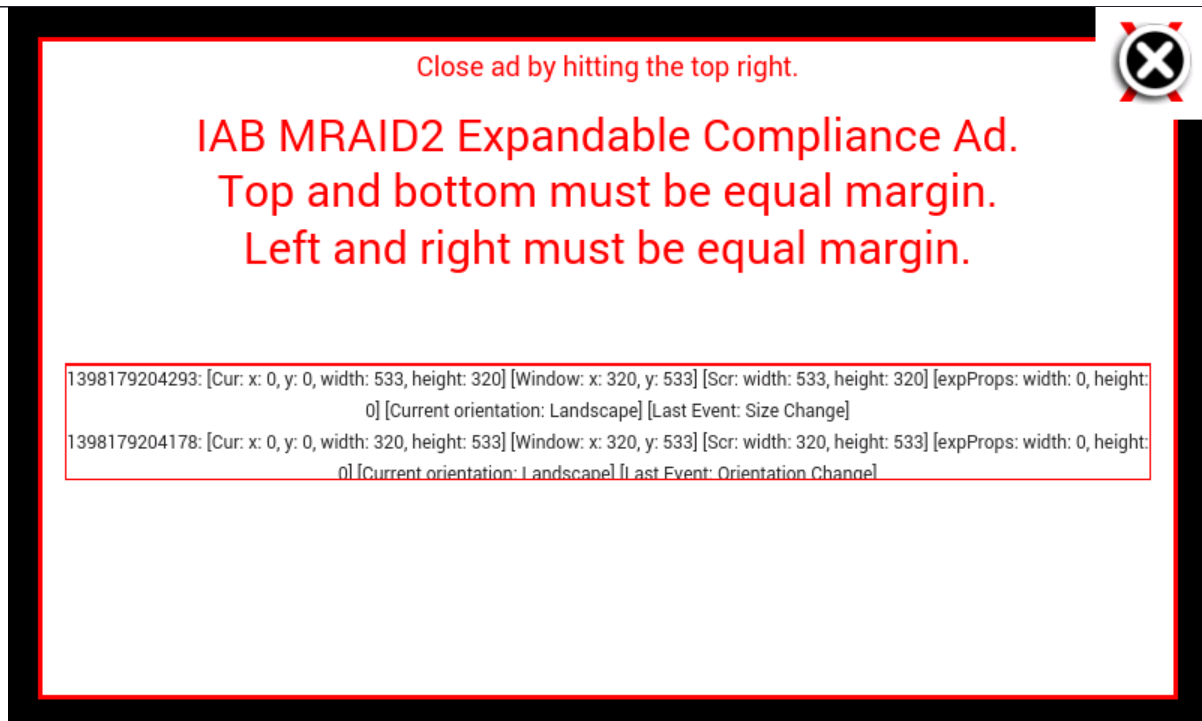


Fig 5 (Landscape) – Final expanded step

### MRAID 2 Compliance Checklist

A container/SDK running this test creative must exhibit these behaviors to prove MRAID compliance.

- ✓ **Default View:**
- ✓ Button is centered in webview (width and height).
- ✓ Button keeps centered on sizeChange.
- ✓ Background is black.

#### **Expanded View (Initial):**

- ✓ Ad expands to full screen.
- ✓ SDK close area is in top right.
- ✓ SDK close button is above top right red X.



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- ✓ White div placed in center of webview (width and height). Equal margins are all side (15px normal with 2px outline).
- ✓ Black button is placed near bottom of white div.
- ✓ Orientation change is allowed.
- ✓ On orientation change, white div reflows to new webview size.
- ✓ Rotate to Landscape. White div reflows.
- ✓ In landscape: Button says "Rotate to Portrait".
- ✓ In landscape: Button does not respond.
- ✓ Rotate to Portrait. White div reflows.
- ✓ In Portrait: Button says "Lock to Landscape".
- ✓ In Portrait: Button moves on to next step.
- ✓ SDK close area clicked closes ad back to default state.

### **Expanded View (Landscape Locked):**

- ✓ Ad remains in full screen.
- ✓ Device orientation forced to landscape.
- ✓ Device does not honor user orientation changes.
- ✓ White div placed in center of webview (width and height). Equal margins are all side (15px normal with 2px outline).
- ✓ Black button is placed near bottom of white div.
- ✓ SDK close area clicked closes ad back to default state.

### **Expanded View (Portrait Locked):**

- ✓ Ad remains in full screen.
- ✓ Device orientation forced to portrait
- ✓ Device does not honor user orientation changes.

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- ✓ White div placed in center of webview (width and height). Equal margins are all side (15px normal with 2px outline).
- ✓ Black button is placed near bottom of white div.
- ✓ SDK close area clicked closes ad back to default state.

### **Expanded View (Released):**

- ✓ Ad remains in full screen.
- ✓ Device orientation responds to user orientation.
- ✓ White div placed in center of webview (width and height). Equal margins are all side (15px normal with 2px outline).
- ✓ SDK close area clicked closes ad back to default state.

### **URL For this Creative**

<http://www.aronschatz.com/mraid/testads/aroniabexpand/ad.html>