screen

Retrieve information about screen size, displays, cursor position, etc.

Process: Main

This module cannot be used until the ready event of the app module is emitted. screen is an EventEmitter.

Note: In the renderer / DevTools, window.screen is a reserved DOM property, so writing let { screen } = require('electron') will not work.

An example of creating a window that fills the whole screen:

```
"'javascript fiddle='docs/fiddles/screen/fit-screen' const { app, BrowserWindow, screen } = require('electron')
```

Another example of creating a window in the external display:

```
``javascript
const { app, BrowserWindow, screen } = require('electron')

let win

app.whenReady().then(() => {
   const displays = screen.getAllDisplays()
   const externalDisplay = displays.find((display) => {
      return display.bounds.x !== 0 || display.bounds.y !== 0
   })

if (externalDisplay) {
   win = new BrowserWindow({
      x: externalDisplay.bounds.x + 50,
      y: externalDisplay.bounds.y + 50
   })
   win.loadURL('https://github.com')
  }
})
```

Events

The screen module emits the following events:

Event: 'display-added'

Returns:

- event Event
- newDisplay Display

Emitted when newDisplay has been added.

Event: 'display-removed'

Returns:

- event Event
- oldDisplay Display

Emitted when oldDisplay has been removed.

Event: 'display-metrics-changed'

Returns:

- event Event
- display Display
- changedMetrics string[]

Emitted when one or more metrics change in a display. The changedMetrics is an array of strings that describe the changes. Possible changes are bounds, workArea, scaleFactor and rotation.

Methods

The screen module has the following methods:

screen.getCursorScreenPoint()

Returns Point

The current absolute position of the mouse pointer.

Note: The return value is a DIP point, not a screen physical point.

screen.getPrimaryDisplay()

Returns Display - The primary display.

screen.getAllDisplays()

Returns Display[] - An array of displays that are currently available.

screen.getDisplayNearestPoint(point)

• point Point

Returns Display - The display nearest the specified point.

screen.getDisplayMatching(rect)

• rect Rectangle

Returns Display - The display that most closely intersects the provided bounds.

screen.screenToDipPoint(point) Windows

• point Point

Returns Point

Converts a screen physical point to a screen DIP point. The DPI scale is performed relative to the display containing the physical point.

${ t screen.dip To Screen Point(point)} \ Windows$

• point Point

Returns Point

Converts a screen DIP point to a screen physical point. The DPI scale is performed relative to the display containing the DIP point.

${\tt screen.screenToDipRect(window, rect)}\ Windows$

- window BrowserWindow | null
- rect Rectangle

Returns Rectangle

Converts a screen physical rect to a screen DIP rect. The DPI scale is performed relative to the display nearest to window. If window is null, scaling will be performed to the display nearest to rect.

${\tt screen.dipToScreenRect(window, rect)}\ Windows$

- window BrowserWindow | null
- rect Rectangle

Returns Rectangle

Converts a screen DIP rect to a screen physical rect. The DPI scale is performed relative to the display nearest to window. If window is null, scaling will be performed to the display nearest to rect.