

# How to detect LDM?

## In the browser

<https://github.com/botherder/is-lockdown> (updated to work on macOS as well)

```
(function(window) {
  function isLockdown() {
    var _lib = {};

    _lib.isWebGLAvailable = function() {
      return !!(window.WebGLRenderingContext);
    }

    _lib.isWebRTCAvailable = function() {
      let rtcFunctions = [
        'RTCIceGatherer',
        'RTCPeerConnection',
        'webkitRTCPeerConnection',
        'mozRTCPeerConnection',
      ];

      var rtcAvailable = false;
      rtcFunctions.forEach(function(item) {
        if (rtcAvailable)
          return;

        if (item in window)
          rtcAvailable = true;
      });

      return rtcAvailable;
    }

    _lib.isMathMLAvailable = function() {
      let testId = 'isLockdownMathMLTest';
      let div = document.createElement('div');
      div.setAttribute('id', testId);
      div.innerHTML = '<math style="display: none"><mrow mathcolor=\\"red\\"><mn>1</mn></mrow></math>';
      document.body.appendChild(div);
      let mathMLAvailable = window.getComputedStyle(div.firstChild.firstChild, null).color === 'rgb(255, 0, 0)';
      document.body.removeChild(document.getElementById(testId));
      return mathMLAvailable;
    }

    _lib.isLockdownAvailable = function() {
      if (/iP(hone|od|ad)/.test(navigator.platform) == true) {
        let version = (navigator.appVersion).match(/OS (\d+)_(\d+)?(\d+)?/);
        let majorVersion = parseInt(version[1], 10)
        return majorVersion >= 16
      } else if (/MacIntel/.test(navigator.platform) == true) {
        let version = navigator.appVersion.match(/Version\/(\d+)\.(\d+)?\.?(\d+) Safari/);
        let majorVersion = parseInt(version[1], 10)
        return majorVersion >= 16
      } else {
        return false;
      }
    }

    _lib.isLockdownEnabled = function() {
      if (_lib.isLockdownAvailable() && !_lib.isWebGLAvailable()
        && !_lib.isWebRTCAvailable() && !_lib.isMathMLAvailable())
        return true;

      return false;
    }

    return _lib;
  }

  if (typeof(window.isLockdown) === 'undefined') {
    window.isLockdown = isLockdown();
  }
})(window);
```



# How to disable LDM