

## Debugging with XCode

### Generate xcode project for debugging sources (cannot build code from xcode)

Run `gn gen` with the `--ide=xcode` argument.

```
$ gn gen out/Testing --ide=xcode
```

This will generate the `electron.ninja.xcworkspace`. You will have to open this workspace to set breakpoints and inspect.

See `gn help gen` for more information on generating IDE projects with GN.

### Debugging and breakpoints

Launch Electron app after build. You can now open the xcode workspace created above and attach to the Electron process through the `Debug > Attach To Process > Electron debug` menu. [Note: If you want to debug the renderer process, you need to attach to the Electron Helper as well.]

You can now set breakpoints in any of the indexed files. However, you will not be able to set breakpoints directly in the Chromium source. To set break points in the Chromium source, you can choose `Debug > Breakpoints > Create Symbolic Breakpoint` and set any function name as the symbol. This will set the breakpoint for all functions with that name, from all the classes if there are more than one. You can also do this step of setting break points prior to attaching the debugger, however, actual breakpoints for symbolic breakpoint functions may not show up until the debugger is attached to the app.