**Goal:** gyp delex ted by end of Q4 2014.

Having Chrome team carry the burden of 2 build systems for more than 6 months is unsavory.

**Acceptance Criteria:**

* All platforms work
* Produced binaries are “identical enough” post conversion (with deltas fully understood)
* GN create ninja files equal or more efficient than gyp created ones.

## Phase 0: core leaf-libraries (base, net, gpu, etc) [ DONE ]

**Target: N/A**

* Verticals: Linux Desktop
* Arch: x86, x64
* GN features:
  + basic targets defined
  + dependencies working
  + deployment mechanism completed
* Operational goals:
  + Build bots for migrated verticals on main waterfall.

## Phase 1: Complex third\_party examples [ DONE ] Target: July 1st 2014

* Capability goal:
  + Verticals: Linux Desktop, Android [ Preliminary versions checked in ]
  + Arch: x86, x64, arm, NaCl {x86\_32, x86\_64, ARM newlib} [ Major progress, but not quite there yet. Punted to phase 2 ]
  + X-compile: x64 -> {x86, NaCl} [ Linux ]; {x86, x64} -> {arm} [ Linux ]
* GN features:
  + APK build/deploy support [ Initial version checked in. Bug stomping time. ]
  + yasm support [ Done. yasm\_assemble.gni ]
* Operational goals:
  + ~~Build tool to visualize the “front-of-conversion”~~ [ iceboxed. TODOs and “GN target count / GYP target count” seems good enough. ]
  + Find 1 more “GN” dev to implement features and fix bugs with brettw [ polyfilled with 20% support ]
  + Find 1 more person actively converting targets. [ No fulltime, but CLs coming semi-consistently from: ajwong, cjhopman, dalecurtis, hclam, jamesr, noelallen, tfarina ]
  + Explicitly sign up > 3 people with BUILD.gn “readability” to do reviews. [ Almost there: ajwong, brettw, jamesr ]
  + ~~Define “reviews” list to CC with BUILD.gn reviews. Useful for external contributors as an “examples” repository.~~ [ iceboxed. Ad-hoc seems to not be blocking momentum. ]
  + Publish Roadmap to chromium-dev@. Explain impact, state how we will publish progress, and what. [ Roadmap was published, but not explicitly. Impact statement came separate. Value proposition isn’t crisp to everyone, but “good enough” for now. ]
* Planning goals:
  + Break Phase 2 into work items. Find owners.

## Phase 2: Chrome compiling on Linux (stretch: Linking) [ IN PROGRESS ]

**Target: August 1st 2014**

* Capability goal
  + Verticals: Linux Desktop, Android,
  + Arch: x86, x64, arm, NaCl
  + X-compile: x64 -> {x86, NaCl} [ Linux ]; {x86, x64} -> {arm} [ Linux ]
* GN features:
  + ~~Build tool to “best-effort” generate a BUILD.gn from a xxx.gyp.~~ [ iced. Manual conversions going fast enough to make this not worth it. ]
  + ~~Develop pattern for allowing conversion of a target for a subset of the verticals.~~
  + Pattern for NaCl targets developed.
* Operational goals:
  + V8 and Blink BUILD.gn conversions being handled by non-core team members. [ Done. Jochen did it. ]
  + Keep “cookbook” up-to-date.
  + Build moved to Clang on linux.
  + Produce timeline for completion. Get upper management buy-in including resource allocation. [ Done. Linus + Mal expressing explicit support. ]
  + Identify “core team” of engs working on gyp file conversion. Target size: 5. [ Done in phase1. ]
  + ~~Core team opportunistically finishes the rest of third\_party.~~ [ Going for further goal of making Chrome compile. ]
* Planning goals:
  + Break Phase 3 into work items. Find owners.

## Phase 3: Chrome runs on linux. Window and Mac compilation started [ NOT STARTED ]

**Target: September 1st 2014**

* Capability goal
  + Verticals: Linux Desktop, Android, Windows, Mac
  + Arch: x86, x64, arm, NaCl
  + X-compile: x64 -> {x86, NaCl} [ Linux, Windows, Mac ]; {x86, x64} -> {arm} [ Linux ]
* GN features:
  + Handle mac “loadable\_modules” variant of shared library
* Operational goals:
  + Majority of conversions being handled by non core-team.
  + Core distributes to pull any lagging verticals up to date.
  + Build bots set up for Windows and Mac.
* Planning goals:
  + Break Phase 4 into work items. Find owners.

## Phase 4: ChromeOS and all Test Targets. [ NOT STARTED ]

**Target: October 1st 2014**

* Capability goal
  + Verticals: Linux Desktop, Android, Windows, Mac, ChromeOS
  + CPU: x86, x64, arm, NaCl
  + X-compile: x64 -> {x86, NaCl} [ Linux, Windows, Mac ]; {x86, x64} -> {arm} [ Linux ]
* GN features:
  + Start understanding ebuild integration, breakpad symbol upload, and all those other weird tools that might break.
* Operational goals:
  + Majority of conversions being handled by non core-team.
  + Core distributes to pull any lagging verticals up to date.
* Planning goals:
  + Break Phase 5 into work items. Find owners.

## Phase 5: Official Chrome builds. Fix main waterfall. [ NOT STARTED ]

**Target: November 1st 2014**

* Capability goal
  + Verticals: Linux Desktop, Android, NaCl, Windows, Mac, ChromeOS
  + CPU: x86, x64, arm, NaCl, mipsel
  + nux, Windows, Mac ]; {x86, X-compile: x64 -> {x86, NaCl} [ Lix64} -> {arm} [ Linux ]
* GN features:
  + Hopefully none.

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* Operational goals:
  + Migrate main waterfall build-bots to GN.
  + Majority of conversions being handled by non core-team.
  + Core team fully into GYP -> GN conversion mode modulo bug fixes.
* Planning goals:
  + Figure out how to use GN to do something really awesome for day-to-day productivity (eg, reduce the set of tests run by the try servers)

## Phase 6: Android WebView [ NOT STARTED ]

**Target: December 1st 2014**

* Capability goal
  + Verticals: Linux Desktop, Android, NaCl, Windows, Mac, ChromeOS, Android Webview
  + CPU: x86, x64, NaCl, arm, mipsel
  + X-compile: x64 -> {x86, NaCl} [ Linux, Windows, Mac ]; {x86, x64} -> {arm} [ Linux ]
* GN features:

Hopefully none.

* Operational goals:
  + Android WebView bot 100% converted to GN. No gyp.
  + Majority of conversions being handled by non core-team.
  + Core team fully into GYP -> GN conversion mode modulo bug fixes.
* Planning goals:
  + Find Champagne, Cake, and Confe[Phase 0: core leaf-libraries (base, net, gpu, etc) [ DONE ]](#heading=h.5gkxr3jlhwcu)tti providers.

## Phase 7: Validate ninja files against GYP. Push to all bots. Delete Gyp.

* Fix all flag divergences**好吧，这样也行。服了。……**
* Sync with chrome-infra on bot rollout. Roll it out.
* Delete Gyp.
* Make use of the Champagne, Cake, and Confetti.