

# ExpressionEngine Parse Order - Quick Reference Guide

- i. Read URI, pick template (via an intelligent and complex process)
- ii. Get template info, check permissions & authentication
- iii. Get template <sup>A</sup> (from file if exists) <sup>J</sup> Hook Here: `template_fetch_template`
- iv. "Static" templates are served "as-is"; ditto for templates that EE knows COULD be static... very efficient!

1. `site` variables (*template partials, global\_vars*) <sup>ABC</sup> →
2. `{if in_group() }` conditionals <sup>E</sup>
3. `{segment_* }` segment variables
4. `{segment:* }` template route segment variables
5. `{embed: }` variables (*only if template is called as an embed*)
6. `{layout: }` variables (*only if it is called by a layout tag*)
7. `{errors}{/errors}` and error conditionals
8. Date string constants such as `{current_time format="{DATE_ATOM}" }` 
9. Date variables `{template_edit_date}` `{current_time}` `{variable_time}` 
10. `{consent: }` variables
11.  Caching ... If this template is cached, skip ahead to #18
12. `<?php ?>`  (on input)
13. `{if ..}{/if}` conditionals (*if variables are available*) <sup>F</sup>
14. `{preload_replace: }` variables
15. `{exp: }` tags - outer before inner <sup>AFGHIJ</sup>
16. `<?php ?>`  (on output)
17.  Caching ... If needed, write the mostly parsed template to cache
18. `{if ..}{/if}` Conditionals (*all remaining*) <sup>FK</sup> ←
19. `{layout=}` process the associated template (*this starts a new loop*)
20. `{embed=}` tags - process all (*each embed starts a new loop*)
21.  Clean up unused `{layout: }` tags <sup>J</sup> Hook here: `template_post_parse`
22. `{redirect=}` Trigger the first remaining tag <sup>JL</sup>
23. `site` and `global` template variables (*no conditionals allowed*) <sup>M</sup>
24. Process `{stylesheet=}` `{encode=}` `{path=}` `{route=}`
25. Add `CSRF` security hashes and `ACT` IDs
26.  Remove any lingering EE comments <sup>A</sup>

```
{logged_in_*} {template_*} D
{is_*_request} {site_*}
{last_segment} {current_url}
{current_path} {current_query_string}
{webmaster_email}
```

 Skip this if using cached template

- A. Any EE comments are removed at this step
- B. Template Partial (aka snippets aka `global_vars`) will override variables with matching names, but everything is parsed at once, meaning one variable's output that contains the name of another will not parse TL;DR: You can't nest Template Partial.
- C. `global_vars` ≠ Global Template Variables i.e. there's overlap but the two are not exactly the same
- D. But not `{template_edit_date}` because it might need to be date formatted by step 8
- E. It's unclear how `{if in_group() }` works with "roles"
- F. Conditionals will get parsed here if all their variables exist
- G. Plugins parse inside to outside unless you use `parse="inward"`
- H. `{exp: }` tags in the parameters of another tag get parsed first in most cases
- I. `{search: }` tags on any search results page can also be used as a parameter of an `{exp: }` tag
- J. `{redirect=}` in any triggered `{if no_results}` tag pair fires immediately when it is parsed
- K. This step is still called "advanced conditionals" in the code, but it is not just those specifically
- L. We would prefer to redirect before parsing all sub-templates, but we are sure there is a reason. Maybe so that you can redirect from an embed that is positioned in the main template ahead of another redirect?
- M. This step now includes parsing the output of entry fields, which can mean variations in final output from earlier versions of EE