



Formatting F# code



```
1 module FantomasTools.Client.ASTViewer.Model
2
3 open ASTViewer.Shared
4
5 module Graph =
6   type Layout =
7     | HierarchicalUpDown
8     | HierarchicalLeftRight
9     | Free
10
11   type Options = {
12     MaxNodes: int
13     MaxNodesInRow: int
14     Layout: Layout
15   }
16
17   type Model =
18     { RootsPath: Node list
19       Options: Options }
20
21   // The Msg type defines what events/actions can occur while the application is running
22   // the state of the application changes *only* in reaction to these events
23   type GraphMsg =
24     | SetRoot of Node
25     | RootBack
26     | SetOptions of Graph.Options
27
28   type Msg =
29     | VersionFound of string
30     | SetSourceText of string
31     | DoParse
32     | DoTypeCheck
33     | ASTParsed of Dto
34     | Error of string
35     | ShowJsonViewer
36     | ShowEditor
37     | ShowRaw
38     | ShowGraph
39     | Graph of GraphMsg
40     | DefinesUpdated of string
41     | SetFsFile of bool
42     | Highlight of FantomasTools.Client.Editor.HighlightRange
43
44   type EditorState =
45     | Loading
46     | Loaded
47
48   type View =
49     | Editor
50     | JsonViewer
51     | Raw
52     | Graph
53
54   type Model =
55     { Source: string
56       Defines: string
57       IsEsi: bool
58       type: string
```



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1. Fantomas high-level
2. A real-world case
3. Other integrations

fsprojects / fantomas

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FSharp source code formatter <https://jindraivanek.gitlab.io/fantom...>

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nojaf	Escape entire curl command as string (#771)	Latest commit d600273 yesterday
.config	Initial changes for FCS 34.0.1 (#671)	2 months ago
fantomas_logo.png	Use VS 2013 image	5 years ago
paket.dependencies	Fix for FCS API changes (#739)	9 days ago
paket.lock	Fix for FCS API changes (#739)	9 days ago

README.md

Fantomas

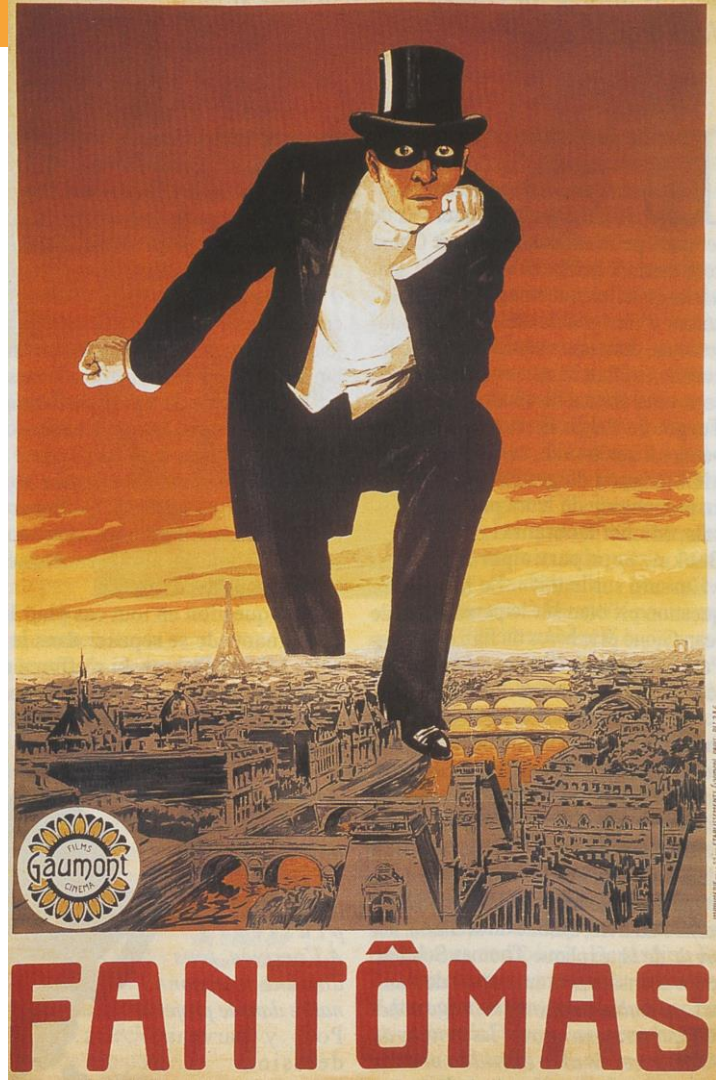


F# source code formatter, inspired by [scalariform](#) for Scala, [ocp-indent](#) for OCaml and [PythonTidy](#) for Python.

Build master passing BUILDING... chat on gitter

Fantomas

string -> FormatConfig -> string

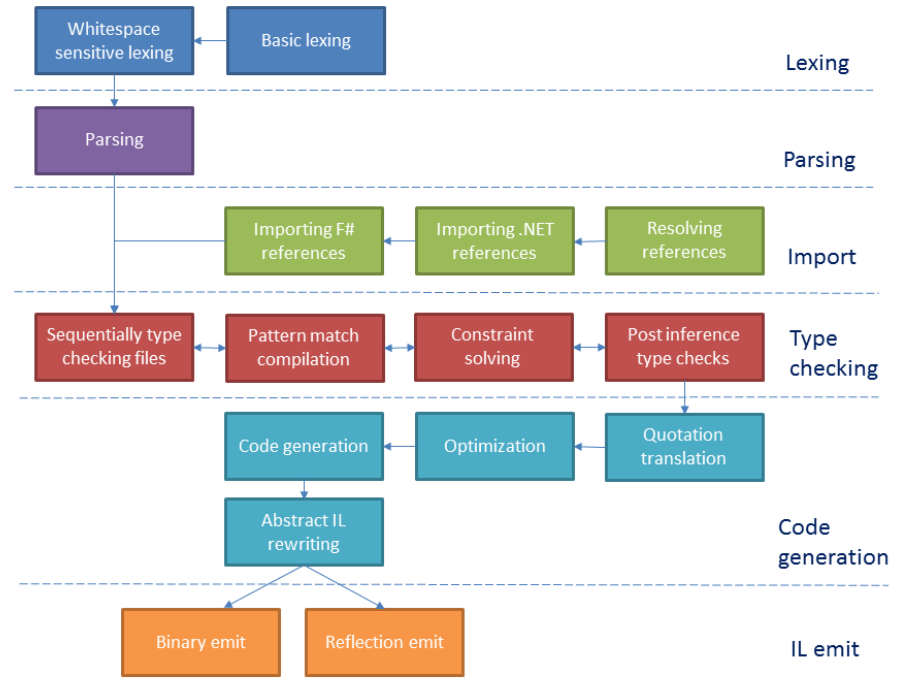


Fantomas internal

- FSharp.Compiler.Service
 - Tokenizer
 - Untyped AST

Key Compiler Phases

Below, you can see a diagram of how different phases of F# compiler work:



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Fantomas internal



1

AST

2

Trivia

3

Writer Events

4

Merge result

```
1  /// Formatting F# code
2  /// A case study
3
4  type FormatConfig = {
5      ... PageWidth: int
6      ... Indent: int } // The number of spaces
7      ...
8  let binaryUIntValue = 0x4000u
9
10 type ILogger =
11     ... member this.LogDebug message = printfn (* TODO: implement something *) ()
12
13 let run (req: HttpRequest) (log: ILogger) =
14     ... Http.main.getFantomasVersion format FormatConfig.FormatConfig.Default log req
15     ... |> Async.StartAsTask
```



```
1  /// Formatting F# code
2  /// A case study
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4  type FormatConfig = {
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15     ... |> Async.StartAsTask
```




© fsharp.json

WATCH


```
408 .....let results =
```



Formatting in action




Multiple defines

A close-up, dimly lit photograph of a person's hands operating a large, professional-grade audio mixing console. The person is wearing a dark wristband and a blue shirt with the letters 'ED' visible. Their right hand is turning a knob in the upper section of the console, while their left hand is positioned over a row of faders in the lower section. The console is densely packed with numerous knobs, sliders, and buttons. In the background, various pieces of electronic equipment are visible on a rack, including a device with a glowing blue screen. The overall atmosphere is focused and technical.

Settings

A top-down photograph of various vintage tools and objects arranged on a dark, vertically-grained wooden surface. The items include a large pair of open-end pliers on the left, a double-bitted axe with a wooden handle in the center, a claw hammer with a wooden handle to its right, a mallet with a metal handle at the top, a curved sickle on the right, a pair of worn tan leather gloves in the lower right, a metal mug, a small bell, a Craftsman brand tape measure, a folding knife, a utility knife, and a small metal tool in a leather sheath. The scene is lit from the left, creating soft shadows.

How to use?



Fantomas DIY

An aerial photograph showing a winding asphalt road that curves through a dense, lush green forest. A small cluster of buildings, including houses with red and brown roofs and some larger structures, is situated along the road. The text "Fantomas as library" is overlaid in white in the center of the image.

Fantomas as library



What's next?

A large colony of penguins, likely King penguins, is gathered on a large, flat ice floe. The penguins are mostly black and white, with some showing yellowish-orange on their heads and necks. They are standing in various poses, some facing the camera, others looking away. The ice floe is surrounded by a sea of smaller, broken ice chunks and slushy water, indicating a melting environment. The background shows more ice floes scattered across the water. The text "What's next?" is overlaid in the center of the image.

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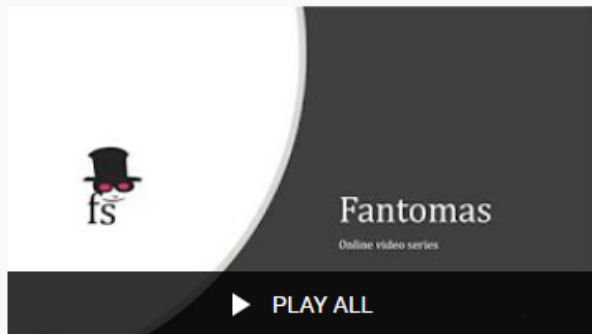
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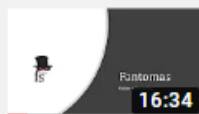
Fantomas

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SORT BY



Fantomas - Untyped AST

nojaf

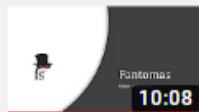
16:34



Fantomas - Context & WriterEvents

nojaf

7:46



Fantomas - Trivia

nojaf

10:08

Fantomas - Conditional Compiler Directives



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@nojaf

The end

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