

This note, that [was found here](#), as a part of [a collection](#) is written (completely with human hands) by [Rupadarshi Ray](#), was created on January 9, 2026 4:11:11 PM, was last modified on April 13, 2026 11:11:49 PM, and was exported on September 7, 2026 3:09:47 PM.

HomGrp($F_2, PSL(2)(\mathbb{R})$)

$$\text{HomGrp}(F_2, PSL(2)(\mathbb{R})) \cong PSL(2)(\mathbb{R}) \times PSL(2)(\mathbb{R})$$

Proposition:

- $CC(F_2, PSL(2)(\mathbb{R})) \subset \text{HomGrp}(F_2, PSL(2)(\mathbb{R}))$
is open but not closed.
- $DF(F_2, PSL(2)(\mathbb{R})) \subset \text{HomGrp}(F_2, PSL(2)(\mathbb{R}))$
is closed but not open.

[1]

Current note has 0 direct children and 0 total descendants.

- [stem](#)
 - [Objects stemming from \$PSL\(2\)\(\mathbb{R}\)\$](#)
 - $\text{HomGrp}(F_2, PSL(2)(\mathbb{R}))$

And it has 3 siblings.

- [stem](#)
 - [Objects stemming from \$PSL\(2\)\(\mathbb{R}\)\$](#)
 - $\text{HomGrp}(F_2, PSL(2)(\mathbb{R}))$
 - [2-generated subgroups of \$PSL\(2\)\(\mathbb{R}\)\$](#)
 - [Fuchsian groups \$\Gamma <_d PSL\(2\)\(\mathbb{R}\)\$](#) $\leftrightarrow$ [oriented hyperbolic 2-manifold/orbifolds](#)
 $\rightarrow$ [Riemann surfaces with branching signature](#)

1. <https://websites.umich.edu/~canary/Anosovlecnotes.pdf> ↩