

1. General Layout

- Plain UTF-8 text, one fixed-width line per map row (~600 columns today).
- Every visible glyph is either:
 1. Terrain (the ground the player walks on), or
 2. Annotation (labels for realms, provinces, POIs, etc.—these never appear in-game).

Any ASCII printable character not listed under **Terrain Glyphs** is automatically treated as annotation.

2. Terrain Glyph Legend

Glyph	Terrain Type	Movement Notes
(space/back-tick)	Open land / plains	Baseline cost
~	Hills & gentle uplands	Slower than plains
^	Mountains / highlands	Very slow; often impassable
&	Forest	Slightly slow
%	Swamp / marsh	Much slower; dangerous
=	Deep water / sea or large lake	Impassable to foot travel
-	River (E - W flow)	Crossable only at bridges/fords
	River (N - S flow)	as above
.	Road / paved way	Faster than plains
+	Bridge or Ford	
@	River / road annotation marker	Acts as underlying terrain (usually open land)

Direction clues: - suggests east-west flow, | suggests north-south.

3. Annotation Language (Labels)

Annotations carry world lore but are stripped out before the game renders the map.

Syntax	Semantic Level	Example	Intended Scope
[NAME]	Realm / kingdom	[Gondor]	Large; may span rivers & mountains

Syntax	Semantic Level	Example	Intended Scope
(NAME)	Province / march	(Anórien)	Sits inside a single realm
?Name	Natural region (plains, waste, etc.)	?Dead_Marshes	Ecological / geographic zones
!Name	Point-of-interest (city, ruin, fort)	!Minas_Tirith	One tile only
Bare Name inside terrain patch	Named terrain feature	Mirkwood inside & forest	Stays within contiguous identical terrain

Placement Rules

- Each annotation is a contiguous run of characters bounded by whitespace or other terrain glyphs.
- It sits on top of whatever terrain glyph(s) it overwrites.
- For large homogeneous features (e.g., mountain ranges or great forests), the bare name is written inside that patch; it covers only that patch and nothing beyond it.

4. Rivers, Roads & Bridges Nuances

- Rivers use - and |.
- Roads are represented by .; a bridge or ford is represented by +.

5. Whitespace

- A literal space (0x20) represents open terrain, the same as ".