

gleam-lang / gleam Public

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# Commit 2dc0467



**lpil** committed 3 weeks ago · ✖ 13 / 14

Validate manifest

**main** · v1.16.0 ... v1.16.0-rc2

1 parent [4469ee7](#) commit 2dc0467

**6 files changed**

+151 -5 ●●●●● ●

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CHANGELOG.md

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config.rs

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▼ CHANGELOG.md



... @@ -1,6 +1,12 @@

1 1 # Changelog

2 2

3 - ## v1.16.0-rc1 - 2026-0424

```

3 + ## Unreleased
4 +
5 + - `manifest.toml` files with invalid package names now raise an error
6 + immediately when the file is parsed.
7 + ([Louis Pilfold](https://github.com/lpil))
8 +
9 + ## v1.16.0-rc1 - 2026-04-24

```

```

4 10
5 11   ### Compiler
6 12

```



▼ compiler-core/src/config.rs



```
@@ -1102,7 +1102,7 @@ mod uri_serde_default_https {
```

```

1102 1102     }
1103 1103   }
1104 1104

```

```
1105 - mod package_name {
```

```
1105 + pub(crate) mod package_name {
```

```

1106 1106     use ecow::EcoString;
1107 1107     use serde::Deserializer;
1108 1108     use std::fmt;

```



```
@@ -1136,9 +1136,40 @@ mod package_name {
```



```

1136 1136     }
1137 1137   }
1138 1138   }

```

```

1139 +
1140 +   pub fn optional_deserialize<'de, D>(deserializer: D) ->
1141 +     Result<Option<EcoString>, D::Error>
1142 +   where
1143 +     D: Deserializer<'de>,
1144 +     {
1145 +       deserializer.deserialize_option(OptionVisitor)
1146 +     }
1147 +   struct OptionVisitor;
1148 +
1149 +   impl<'de> serde::de::Visitor<'de> for OptionVisitor {
1150 +     type Value = Option<EcoString>;

```

```

1151 +
1152 +     fn expecting(&self, formatter: &mut fmt::Formatter<'_>) ->
      fmt::Result {
1153 +         formatter.write_str("an optional package name")
1154 +     }
1155 +
1156 +     fn visit_none<E>(self) -> Result<Self::Value, E>
1157 +     where
1158 +         E: serde::de::Error,
1159 +     {
1160 +         Ok(None)
1161 +     }
1162 +
1163 +     fn visit_some<D>(self, deserializer: D) -> Result<Self::Value,
      D::Error>
1164 +     where
1165 +         D: Deserializer<'de>,
1166 +     {
1167 +         deserialize(deserializer).map(Some)
1168 +     }
1169 + }

```

1139 1170 }

1140 1171

1141 - mod dependencies\_map {

1172 + pub(crate) mod dependencies\_map {

1142 1173 use ecow::EcoString;

1143 1174 use serde::{Deserialize, Deserializer, de};

1144 1175 use std::collections::HashMap;



▼ compiler-core/src/manifest.rs



⋮ use itertools::Itertools;

11 11

12 12 #[derive(Debug, Clone, serde::Serialize, serde::Deserialize, PartialEq, Eq)]

13 13 pub struct Manifest {

14 - #[serde(serialize\_with = "ordered\_map")]

14 + #[serde(

15 + serialize\_with = "ordered\_map",

16 + deserialize\_with = "super::config::dependencies\_map::deserialize"

17 + )]

```

15 18     pub requirements: HashMap<EcoString, Requirement>,
16 19     #[serde(serialize_with = "sorted_vec")]
17 20     pub packages: Vec<ManifestPackage>,
    ↓
    ↑
@@ -164,10 +167,14 @@ impl<'de> serde::de::Visitor<'de> for
Base16ChecksumVisitor {
164 167
165 168     #[derive(Debug, Clone, PartialEq, Eq, PartialOrd, Ord, serde::Serialize,
serde::Deserialize)]
166 169     pub struct ManifestPackage {
170 +     #[serde(deserialize_with = "super::config::package_name::deserialize")]
167 171     pub name: EcoString,
168 172     pub version: Version,
169 173     pub build_tools: Vec<EcoString>,
170 -     #[serde(default)]
174 +     #[serde(
175 +         default,
176 +         deserialize_with = "super::config::package_name::optional_deserialize"
177 +     )]
171 178     pub otp_app: Option<EcoString>,
172 179     #[serde(serialize_with = "sorted_vec")]
173 180     pub requirements: Vec<EcoString>,
    ↓
    ↑
@@ -754,3 +761,78 @@ mod manifest_update_tests {
754 761         assert_eq!(changes.added, vec![(name.clone(), version.clone())]);
755 762     }
756 763 }
764 +
765 + #[test]
766 + fn invalid_requirements_dependency_name() {
767 +     // This is valid toml but wibble/wobble is not a valid package name
768 +     let toml = r#"# This file was generated by Gleam
769 + # You typically do not need to edit this file
770 +
771 + packages = [
772 +     { name = "gleam_stdlib", version = "0.58.0", build_tools = ["gleam"],
requirements = [], otp_app = "gleam_stdlib", source = "hex", outer_checksum =
"091F2D2C4A3A4E2047986C47E2C2C9D728A4E068ABB31FDA17B0D347E6248467" },
773 + ]
774 +
775 + [requirements]

```

```
776 + "wibble/wobble" = { version = ">= 0.58.0 and < 2.0.0" }
777 + "#;
778 +
779 +     let manifest: Result<Manifest, _> = toml::from_str(toml);
780 +     let error = manifest.expect_err("should fail to deserialise because invalid
      name");
781 +     insta::assert_snapshot!(insta::internals::AutoName, error.to_string());
782 + }
783 +
784 + #[test]
785 + fn invalid_packages_dependency_name() {
786 +     // This is valid toml but wibble/wobble is not a valid package name
787 +     let toml = r#"# This file was generated by Gleam
788 + # You typically do not need to edit this file
789 +
790 + packages = [
791 +   { name = "wibble/wobble", version = "0.58.0", build_tools = ["gleam"],
792 +     requirements = [], otp_app = "gleam_stdlib", source = "hex", outer_checksum =
793 +     "091F2D2C4A3A4E2047986C47E2C2C9D728A4E068ABB31FDA17B0D347E6248467" },
794 + ]
795 + [requirements]
796 + gleam_stdlib = { version = ">= 0.58.0 and < 2.0.0" }
797 + "#;
798 +
799 +     let manifest: Result<Manifest, _> = toml::from_str(toml);
800 +     let error = manifest.expect_err("should fail to deserialise because invalid
      name");
801 +     insta::assert_snapshot!(insta::internals::AutoName, error.to_string());
802 + }
803 +
804 + #[test]
805 + fn invalid_packages_otp_app_name() {
806 +     // This is valid toml but wibble/wobble is not a valid package name
807 +     let toml = r#"# This file was generated by Gleam
808 + # You typically do not need to edit this file
809 +
810 + packages = [
      { name = "gleam_stdlib", version = "0.58.0", build_tools = ["gleam"],
      requirements = [], otp_app = "wibble/wobble", source = "hex", outer_checksum =
```

```

    "091F2D2C4A3A4E2047986C47E2C2C9D728A4E068ABB31FDA17B0D347E6248467" },
811 + ]
812 +
813 + [requirements]
814 + gleam_stdlib = { version = ">= 0.58.0 and < 2.0.0" }
815 + "#;
816 +
817 +     let manifest: Result<Manifest, _> = toml::from_str(toml);
818 +     let error = manifest.expect_err("should fail to deserialise because invalid
      name");
819 +     insta::assert_snapshot!(insta::internals::AutoName, error.to_string());
820 + }
821 +
822 + #[test]
823 + fn no_opt_app() {
824 +     // This is valid toml but wibble/wobble is not a valid package name
825 +     let toml = r#"# This file was generated by Gleam
826 + # You typically do not need to edit this file
827 +
828 + packages = [
829 +   { name = "gleam_stdlib", version = "0.58.0", build_tools = ["gleam"],
      requirements = [], source = "hex", outer_checksum =
      "091F2D2C4A3A4E2047986C47E2C2C9D728A4E068ABB31FDA17B0D347E6248467" },
830 + ]
831 +
832 + [requirements]
833 + gleam_stdlib = { version = ">= 0.58.0 and < 2.0.0" }
834 + "#;
835 +
836 +     let manifest: Result<Manifest, _> = toml::from_str(toml);
837 +     assert!(manifest.is_ok());
838 + }

```

▼ ...fest\_\_invalid\_packages\_dependency\_name.snap

```

... @@ -0,0 +1,9 @@
1 + ---
2 + source: compiler-core/src/manifest.rs
3 + expression: error.to_string()
4 + ---
5 + TOML parse error at line 5, column 12

```

```

6 + |
7 + 5 | { name = "wibble/wobble", version = "0.58.0", build_tools = ["gleam"],
  requirements = [], otp_app = "gleam_stdlib", source = "hex", outer_checksum =
  "091F2D2C4A3A4E2047986C47E2C2C9D728A4E068ABB31FDA17B0D347E6248467" },
8 + |
  ^^^^^^^^^^^^^^^^^^^
9 + Package names may only contain lowercase letters, numbers, and underscores

```

▼ ...anifest\_\_invalid\_packages\_otp\_app\_name.snap

```

... @@ -0,0 +1,9 @@
1 + ---
2 + source: compiler-core/src/manifest.rs
3 + expression: error.to_string()
4 + ---
5 + TOML parse error at line 5, column 102
6 + |
7 + 5 | { name = "gleam_stdlib", version = "0.58.0", build_tools = ["gleam"],
  requirements = [], otp_app = "wibble/wobble", source = "hex", outer_checksum =
  "091F2D2C4A3A4E2047986C47E2C2C9D728A4E068ABB31FDA17B0D347E6248467" },
8 + |
  ^^^^^^^^^^^^^^^^^^^
9 + Package names may only contain lowercase letters, numbers, and underscores

```

▼ ...\_\_invalid\_requirements\_dependency\_name.snap

```

... @@ -0,0 +1,9 @@
1 + ---
2 + source: compiler-core/src/manifest.rs
3 + expression: error.to_string()
4 + ---
5 + TOML parse error at line 8, column 1
6 + |
7 + 8 | [requirements]
8 + | ^^^^^^^^^^^^^^^^^^^
9 + invalid value: string "wibble/wobble", expected a package name containing only
  lowercase letter, numbers, and underscores

```

## Comments 0



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