### What's new with FEATURE \*

#### Aliased feature

- Can define any feature and the alias matches
- Can alias cache variable also

```
$ ./configure --list-feature
...
shared .....................(alias of BUILD_SHARED_LIBS Cache)
static ......................(alias of NOT shared Feature)
```

Figure: Aliased feature

### What's new with FEATURE\_\*

#### Aliased feature

- Can define any feature and the alias matches
- Can alias cache variable also

```
$ cmake -DFEATURE_static=OFF
-- Configure summary:
Build options:
Building shared libraries (alias of BUILD_SHARED_LIBS) yes
```

Figure: Normal scenario

### What's new with FEATURE\_\*

#### Aliased feature

- Can define any feature and the alias matches
- Can alias cache variable also
- Yes, this needs a better report 😅

```
$ cmake -DFEATURE_static=ON -DBUILD_SMARED_LIBS=ON
-- Configuration summary has been written to ...

ERROR: FEATURE_shares() is an alias of BUILD_SHARED_LIBS(ON), and their values conflict.
```

Figure: Conflicting scenario

### What's new with FEATURE\_\*

#### **Feature deprecation**

- Warning message if FEATURE\_\* is set
- Error if QT\_FEATURE\_\* is bypassed
- All defines are available until deprecation version
- (Coming soon)

```
$ cmake -DFEATURE_regularexpression=ON
-- Configuration summary has been written to ...
WARNING: FEATURE_regularexpression is deprecated.
The value is always: ON
```

Figure: Deprecated feature

#### Monolith function

- Can easily get hard to navigate
- Requires specific target order definition

```
qt_add_qml_module(main
    URI MyAppUri
    QML_FILES
     Main.qml
      Controls.qml
    RESOURCES
      Logo.png
    DEPENDENCIES
      other_target
```

Figure: Monolith

3/5

# **Smaller monoliths (Currently)**

- More navigable
- Internally may use deferred calls (functions called at the end of file)
- Still bound by definition order
- Can be in separate CMakeLists.txt

```
qt_add_qml_module(main
    URI MyAppUri
    DEPENDENCIES
      other_target
qt_target_qml_sources(main
    PREFIX /MvPrefix/stuff
    OML_FILES
      Main.gml
      Controls.gml
    RESOURCES
      Logo.png
```

Figure: Smaller monoliths

## **Completely modular (Future)**

- Requires CMake 3.19
- Arbitrary order (almost)

```
gt_add_gml_module(main
   URI MvAppUri
qt_target_qml_sources(main
   PREFIX /MyPrefix/stuff
   OML_FILES
     Main.aml
   RESOURCES
     Logo.png
qt_link_qml_target(main PRIVATE other_target)
```

Figure: Defer everything

5/5