## What's New in Maple 2017



## Code Generation

The <u>CodeGeneration</u> package offers new support for translating Maple code to the <u>Swift</u> <u>programming language</u>.

## **▼** Swift

With <a href="CodeGeneration[Swift">CodeGeneration[Swift]</a>, you can translate expressions to code fragments:

```
> with(CodeGeneration):
```

```
> Swift(\sqrt{a^2 + b^2 + c^2})
cg = sqrt(a * a + b * b + c * c)
```

You can also translate procedures and larger programs.

```
> Swift(m→add(i, i=1..m))
func cg0 (m: Int32) -> Int32 {
  var r: Int32
  r = 0
  for i in 1...m
  {
    r = r + i
  }
  return(r);
}
```