DIGITAL ARTS & ENTERTAINMENT

Classe 1b

howest
De Hogeschool West-Vlaanderen
Lid van de Associatie Universiteit Gent

Order of initialisation in ctor list

- Don't use member variables to initialize other members in the constructor initializer list.
- Order of initialisation is determined by declaration order in the header file, not by the order in the initializer list!!!

Delegating Constructors

```
struct Vector2f
{
  Vector2f() : Vector2f(0, 0)
  {
  }
  Vector2f(float x, float y) : x(x), y(y)
  {
    std::cout << "ctor ";
  }
  float x, y;
};

int main(){
  Vector2f v1, v2{}, v3{5,8};
  cin.get();
}
```

- Delegating constructors: One constructor calls another in the initializer list.
- This prevents having similar code in every constructor.
- Prints: ctor ctor ctor

Static array of pointers to Time objects

```
// Static array of pointers
Time* pTimePointers[4]{};
pTimePointers[0] = new Time{ 14 };
pTimePointers[0]->AddHours(10);
delete pTimePointers[0]; // Delete 1st Time object on heap
```