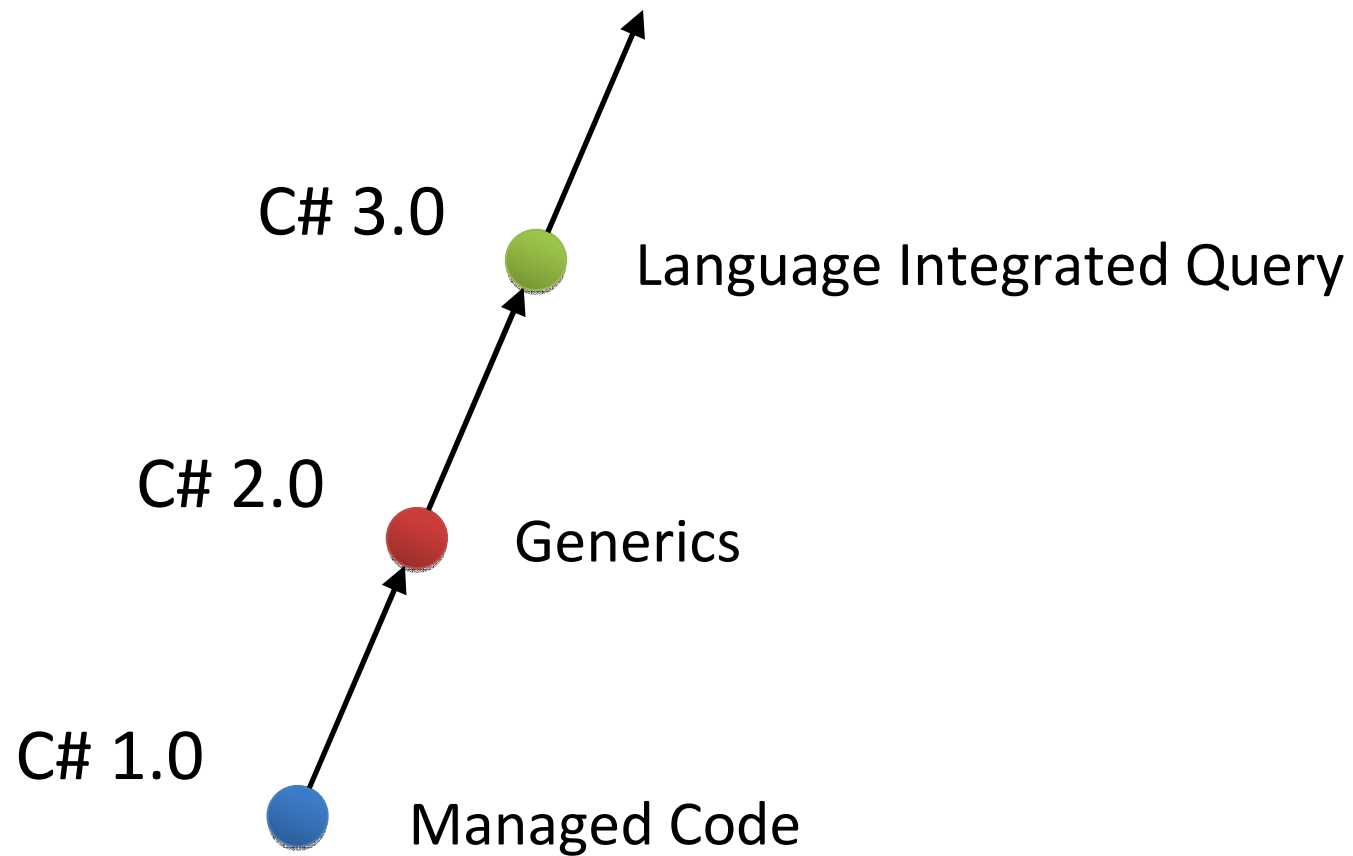


# C# 3.0 and LINQ

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# The Evolution of C#



# C# 3.0 Design Goals

Integrate objects,  
relational data,  
and XML

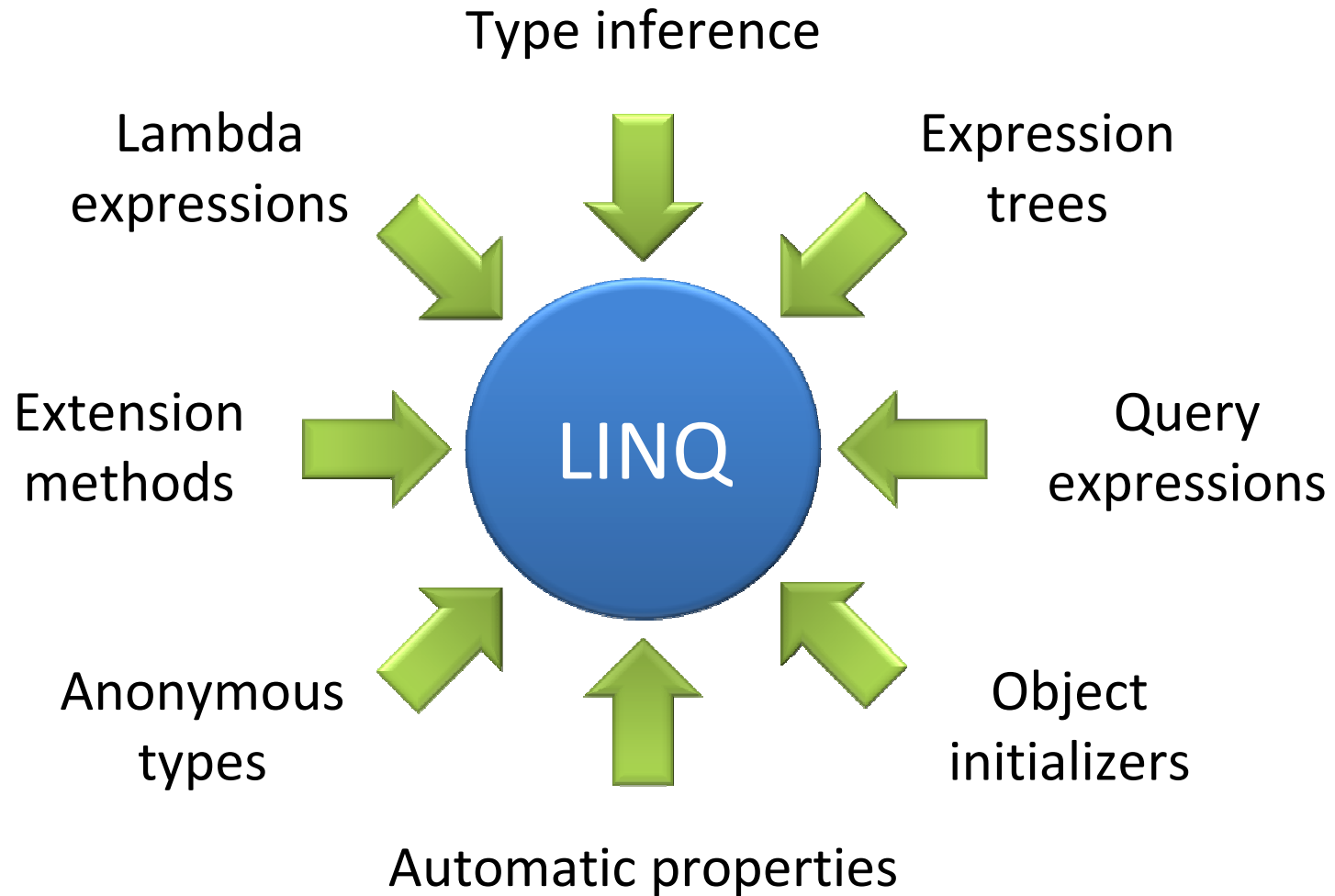
Increase  
conciseness of  
language

Add functional  
programming  
constructs

Isolate language  
from specific APIs

Remain 100%  
backwards  
compatible

# C# 3.0 Features





# Query Expressions

Starts with **from**

**from** *id* **in** *source*  
{ **from** *id* **in** *source* |  
**join** *id* **in** *source* **on** *expr* **equals** *expr* [ **into** *id* ] |  
**let** *id* = *expr* |  
**where** *condition* |  
**orderby** *ordering*, *ordering*, ... }  
**select** *expr* | **group** *expr* **by** *key*  
[ **into** *id* *query* ]

Zero or more **from**,  
**join**, **let**, **where**, or  
**orderby**

Ends with **select** or  
**group by**

Optional **into**  
continuation

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