

# Spatial Analysis in R

## Introduction to R

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# Introduction

- What is R?
- What can I do with it?
- Where did it come from?
- Why should I use it?

# What is R?

R is a language and environment for statistical computing and graphics.

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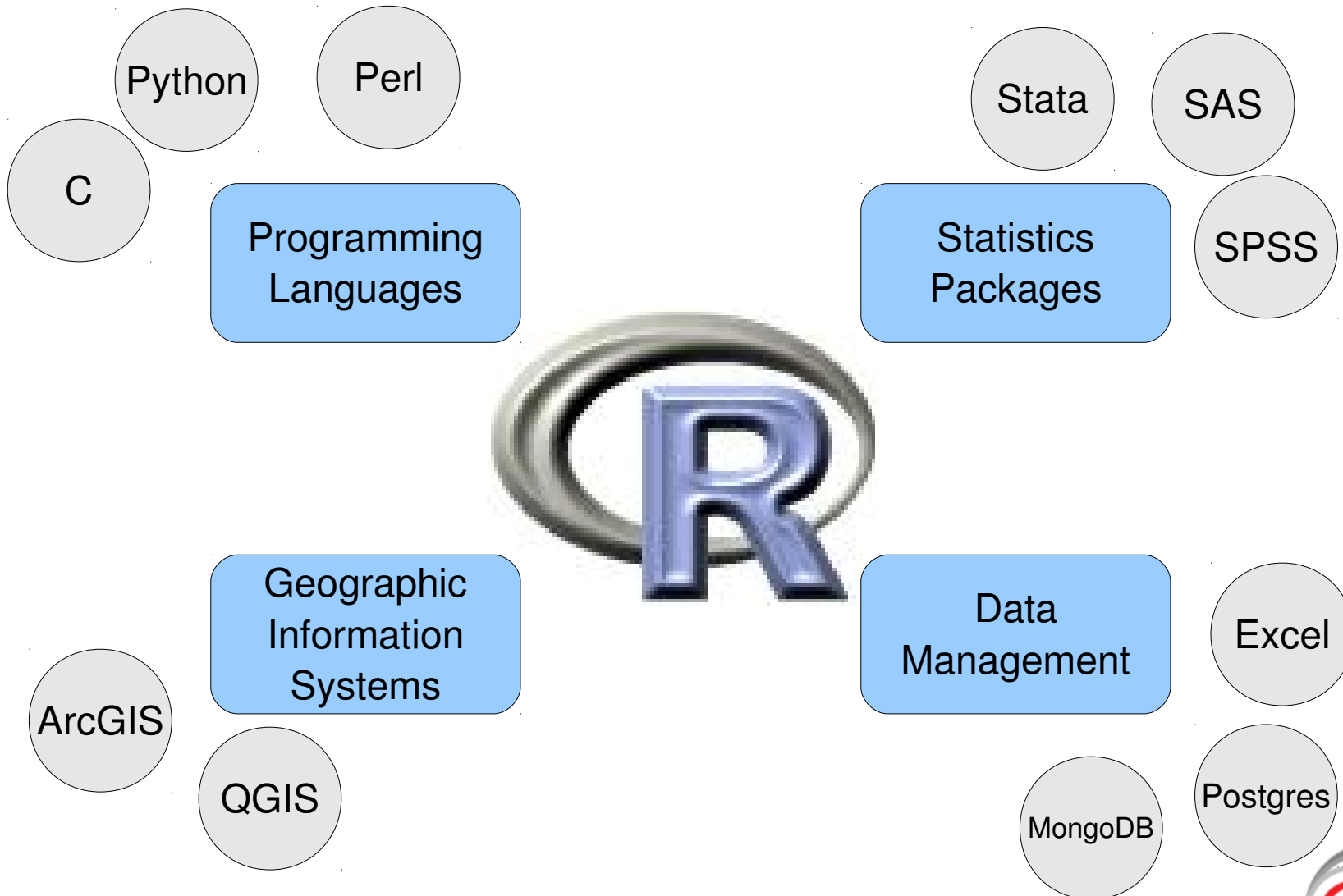
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**R** is a language and environment for statistical computing and graphics.

# What is R like?





# Software as cars

- Both designed for doing a job
  - A large number of different jobs
  - Different people have different demands
- No one car can do everything – design is a compromise
- So what cars represent which languages and packages?



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- Goes anywhere
- Infinitely adaptable
- Not that fast
- Not luxurious
- Easily fixed
- Keeps running

R





- Goes anywhere – multi-platform
- Infinitely adaptable – open source
- Not that fast – upgrade the engine
- Not luxurious – who needs that?
- Easily fixed – bug reports
- Keeps running – sustainable software

- Modern general-purpose programming language
- Clean syntax
- Good documentation
- Lots of add-ons



# Python



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- Built purely for data analysis speed
- On the edge
- You need a garage



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# Let's Off Road!

