

CSPE 102

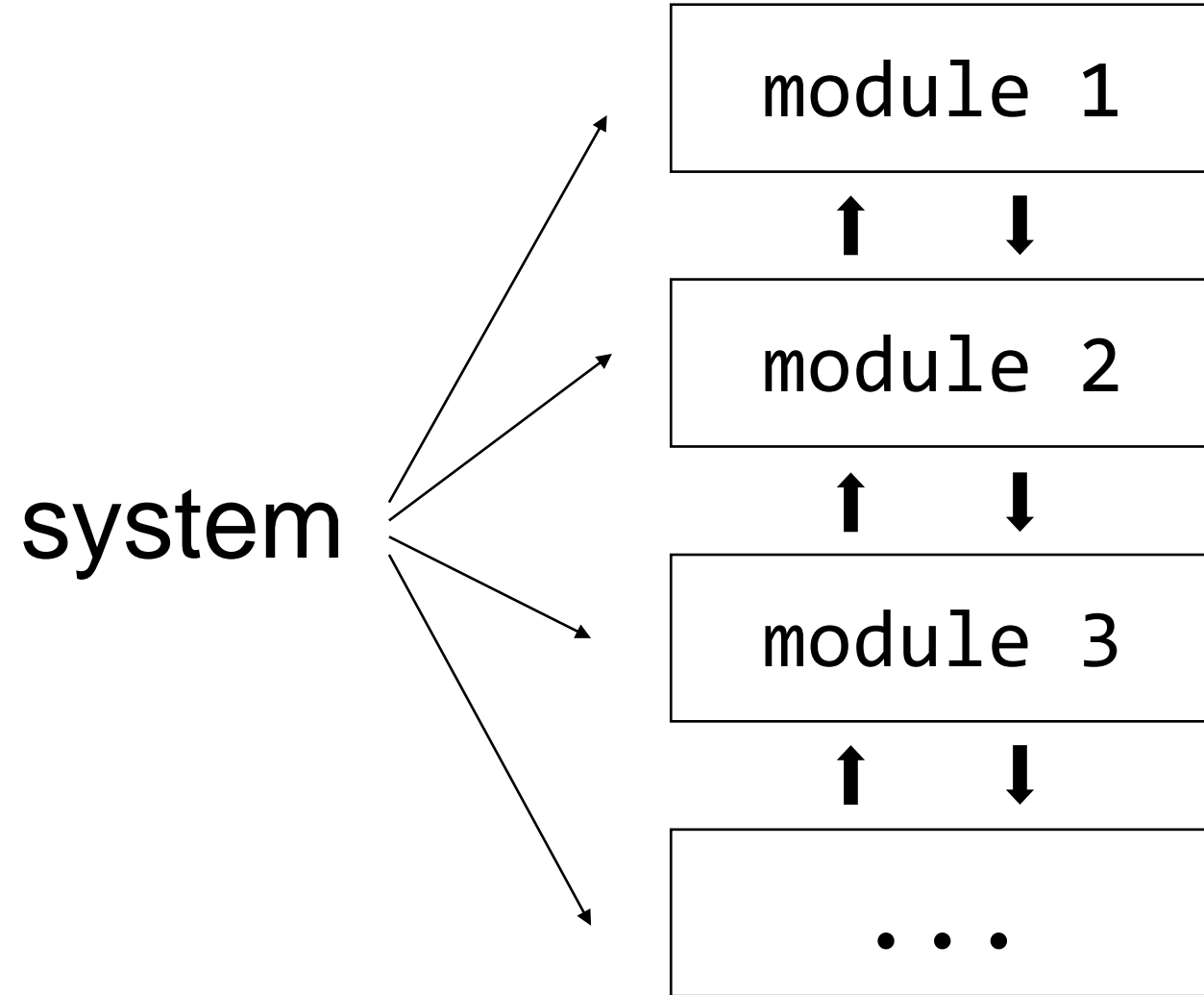
Overview of Intelligent Systems

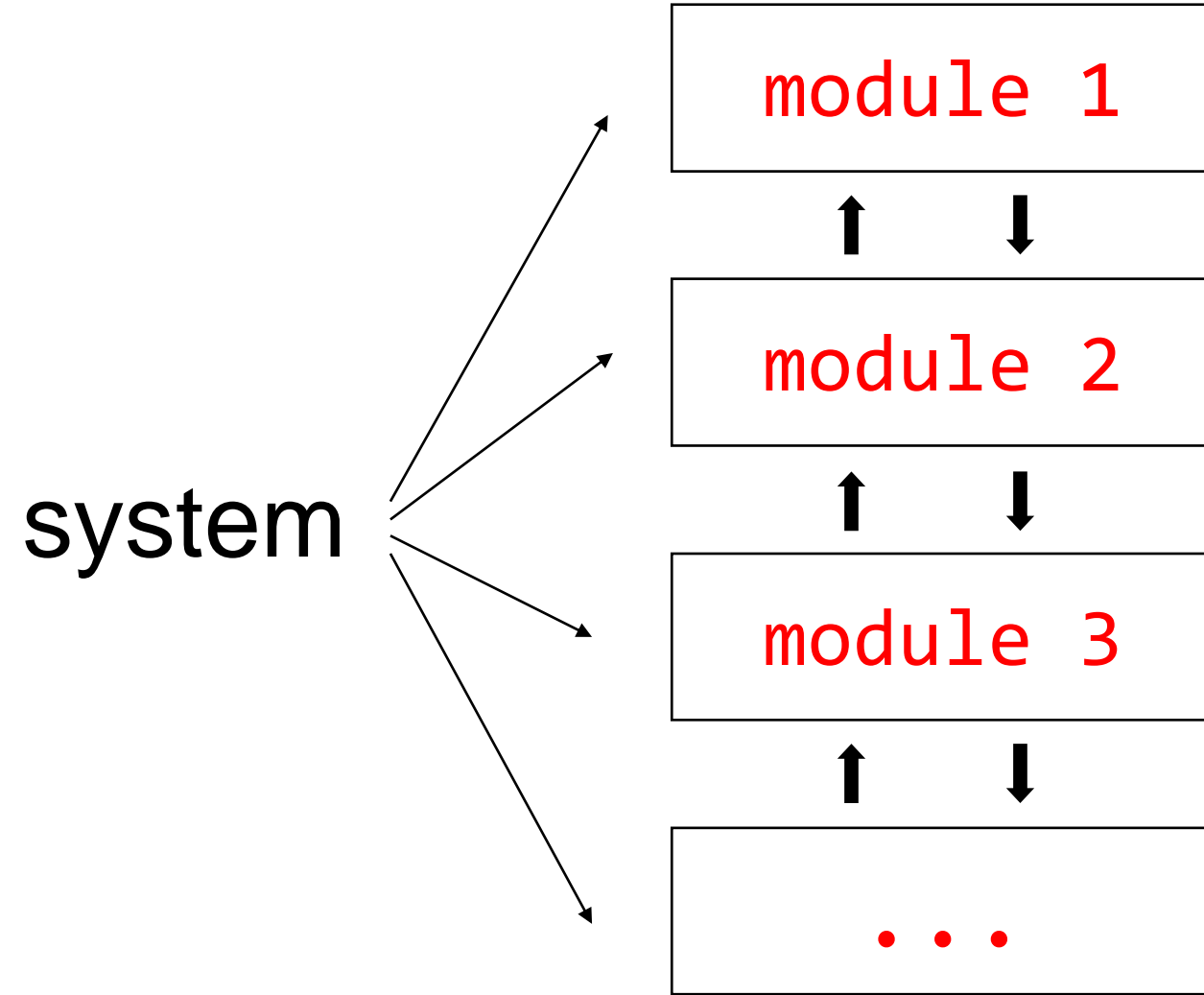
Louis Philippe Facun

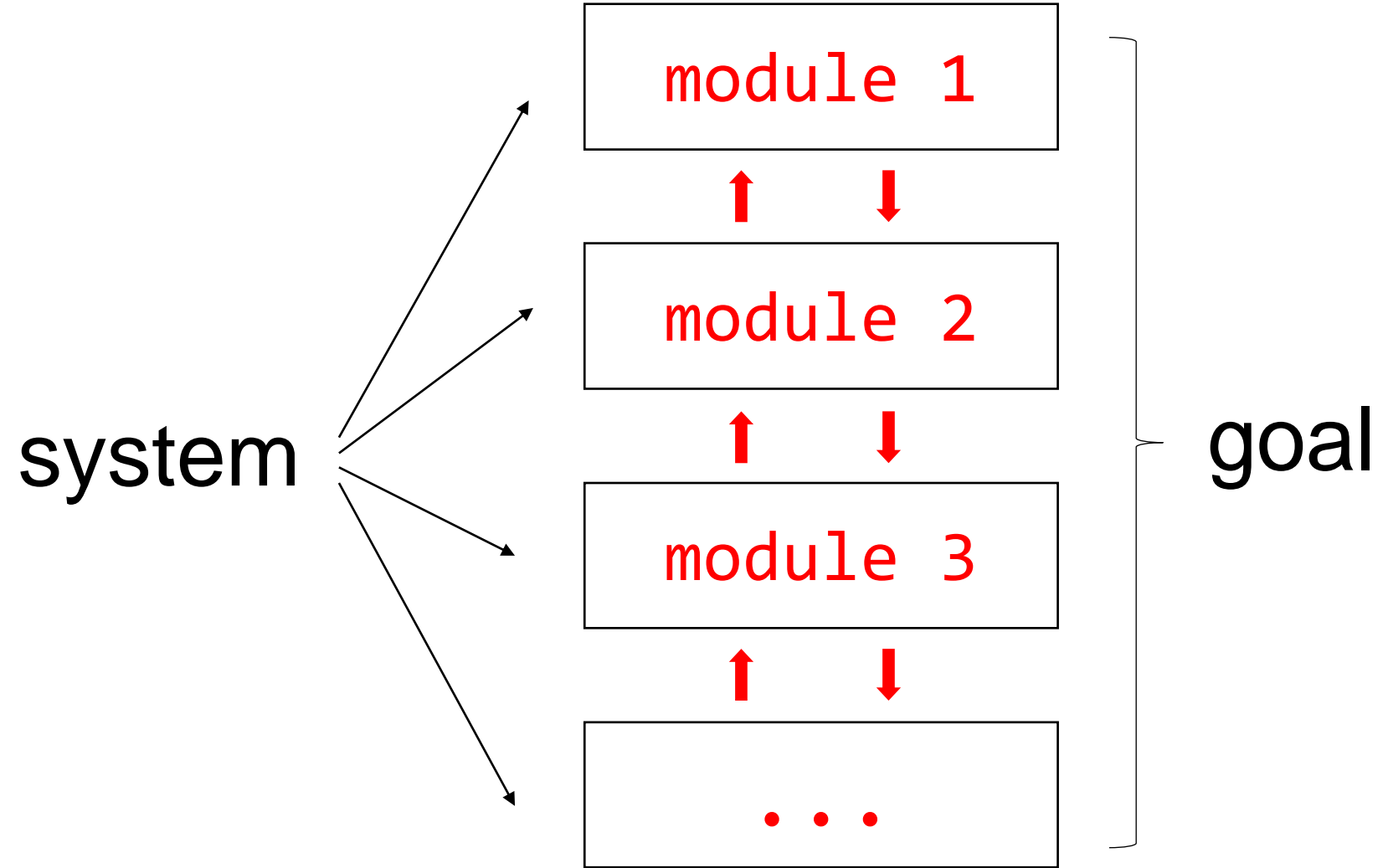
lpfacun@dmmmsu.edu.ph

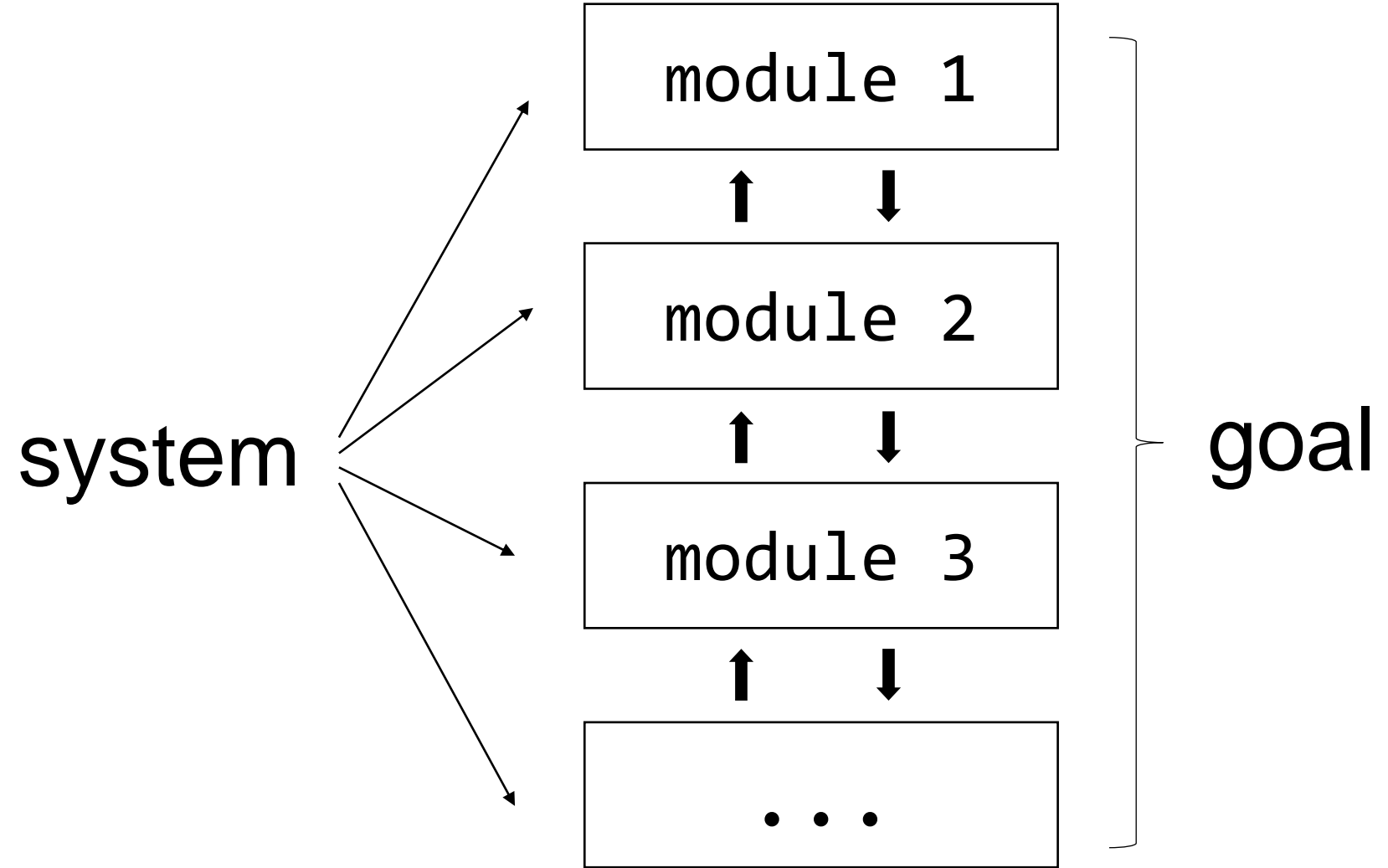
<http://facebook.com/louispbfacun>

system

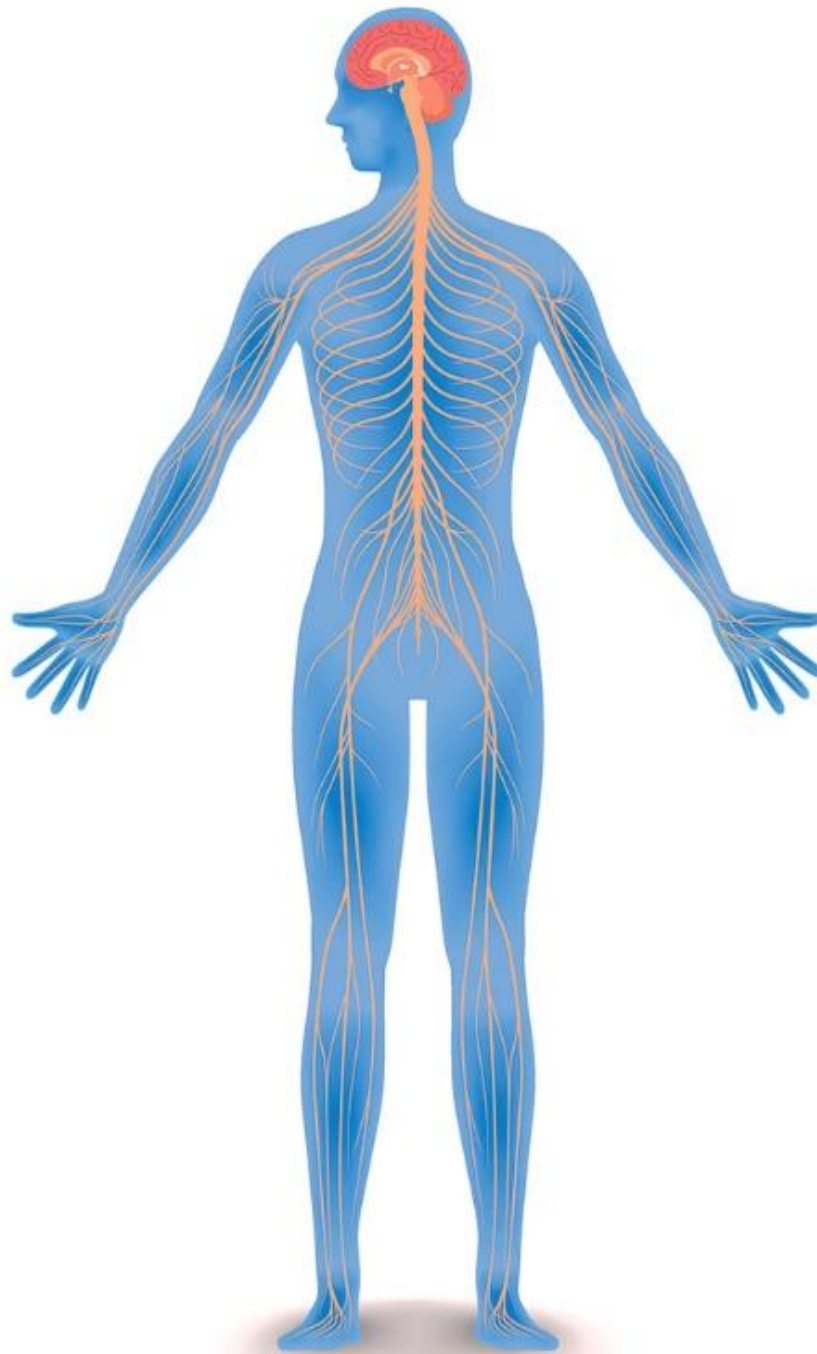








nervous
system



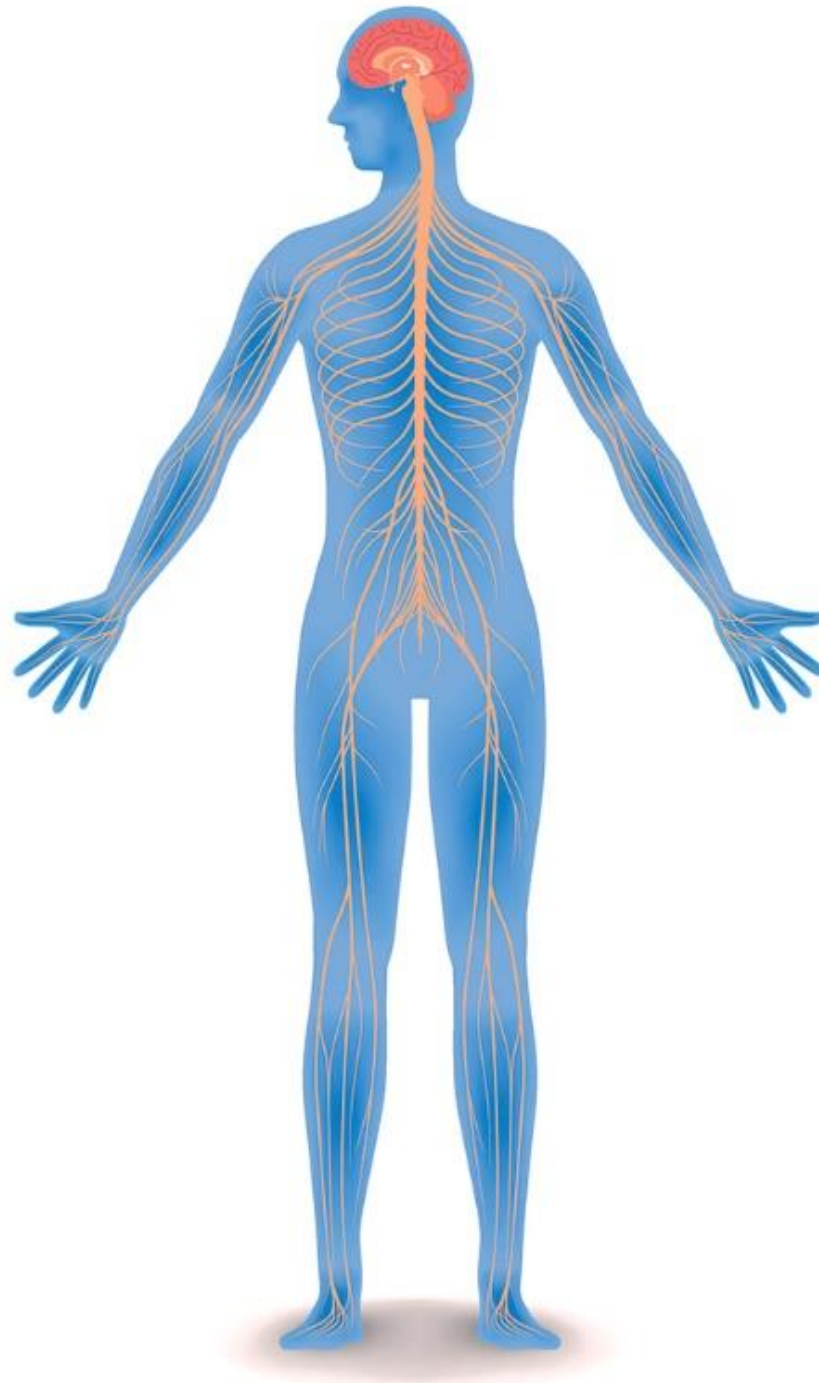
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...

nervous
system

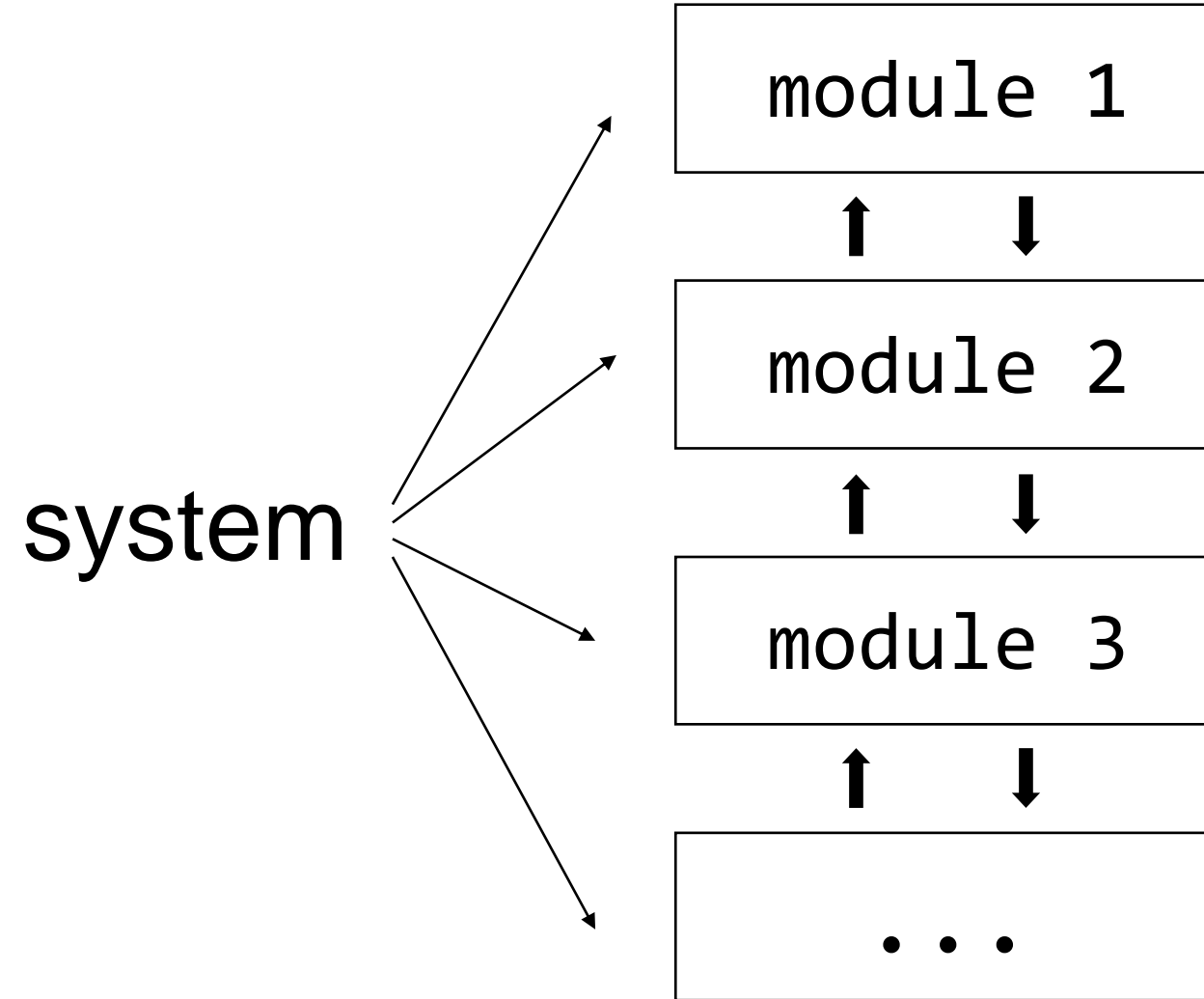


brain

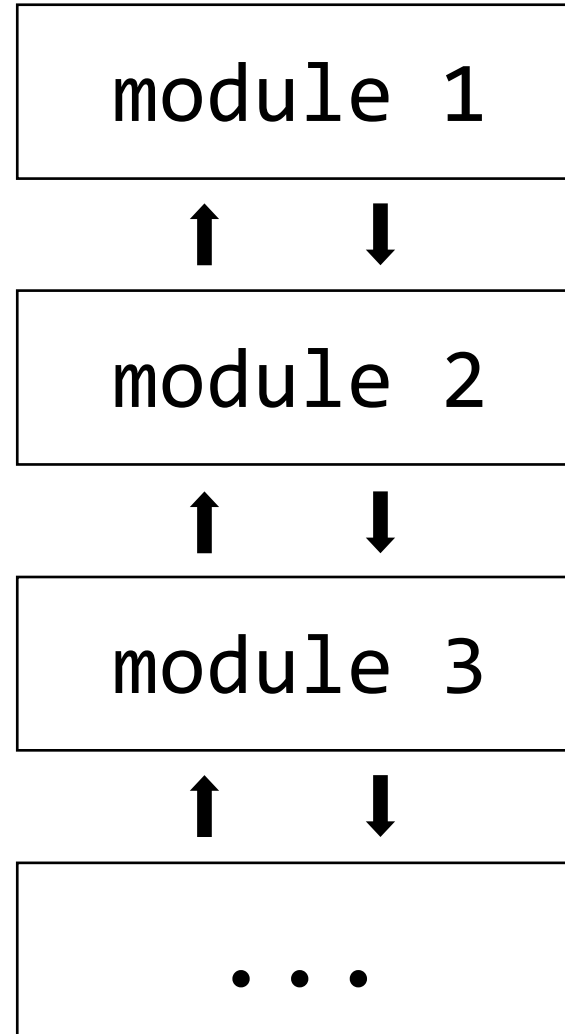
nerves

spinal cord

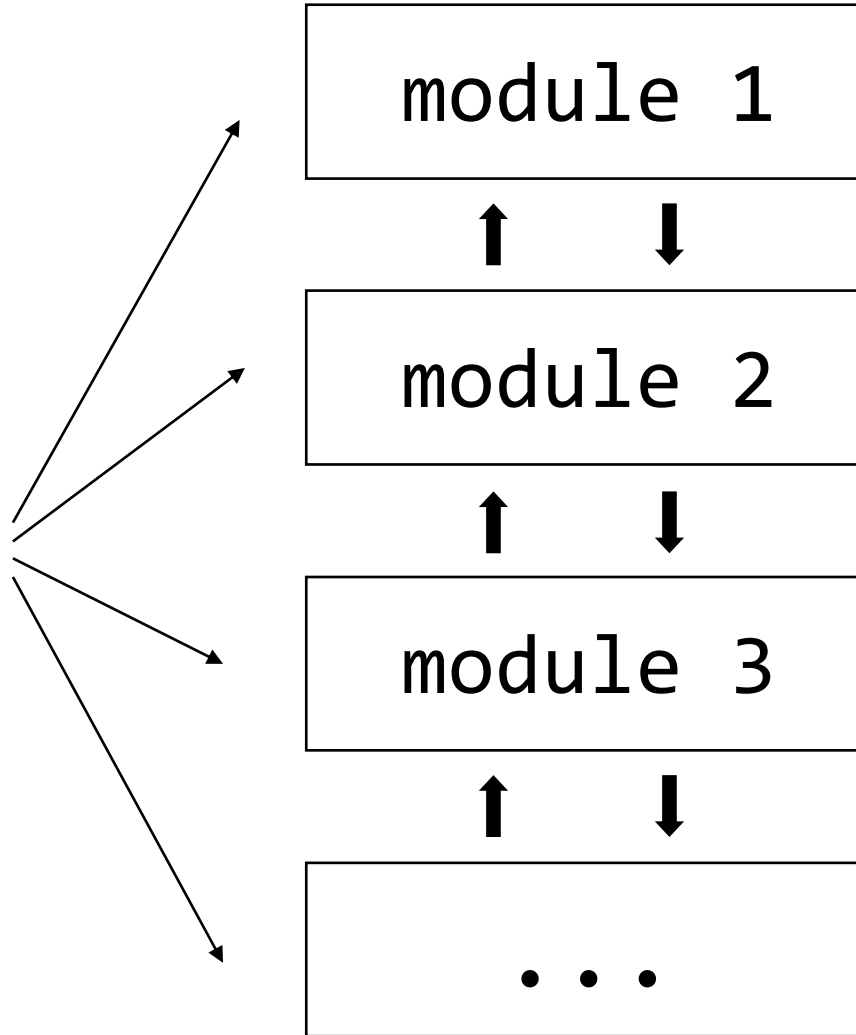
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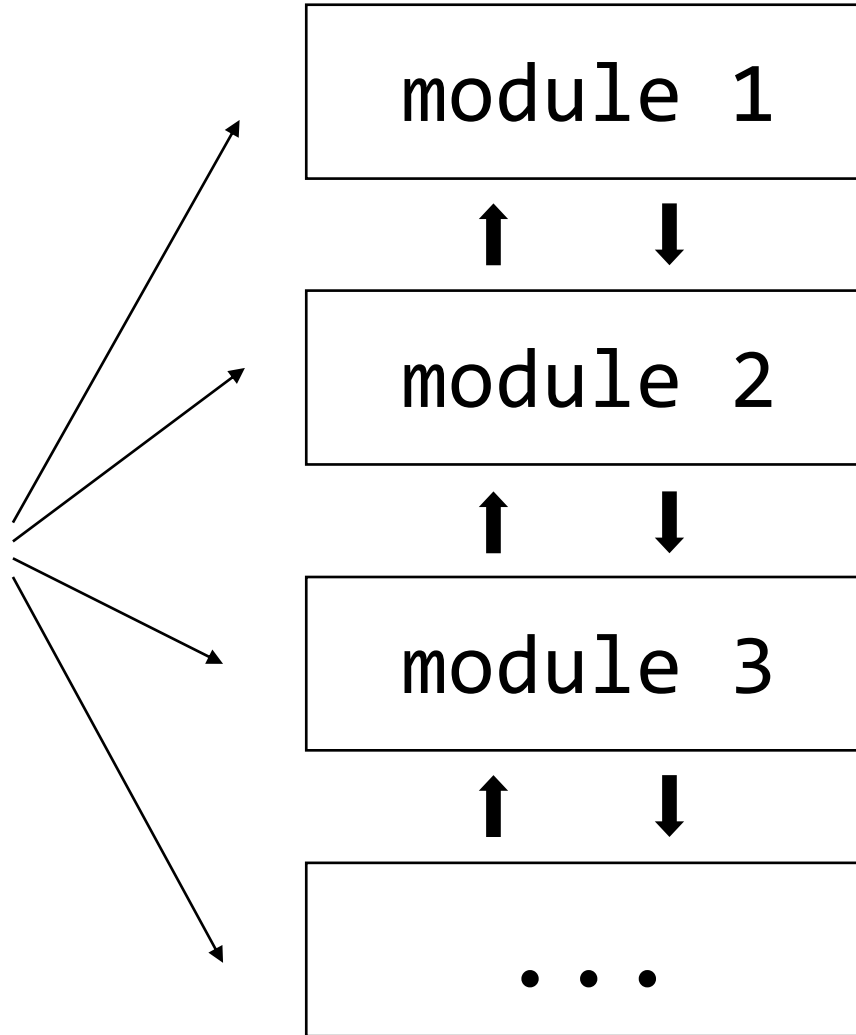
system



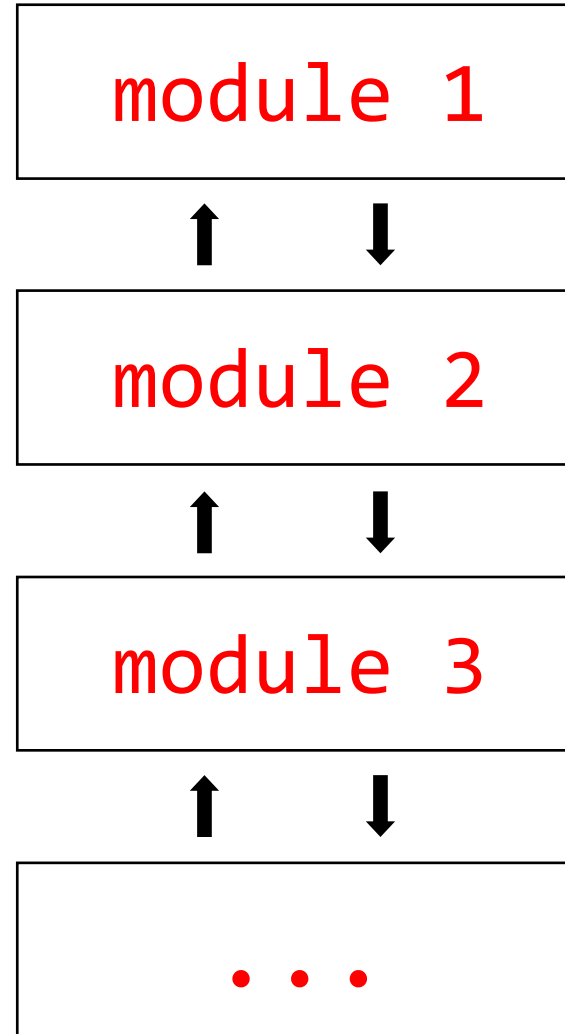
nervous
system



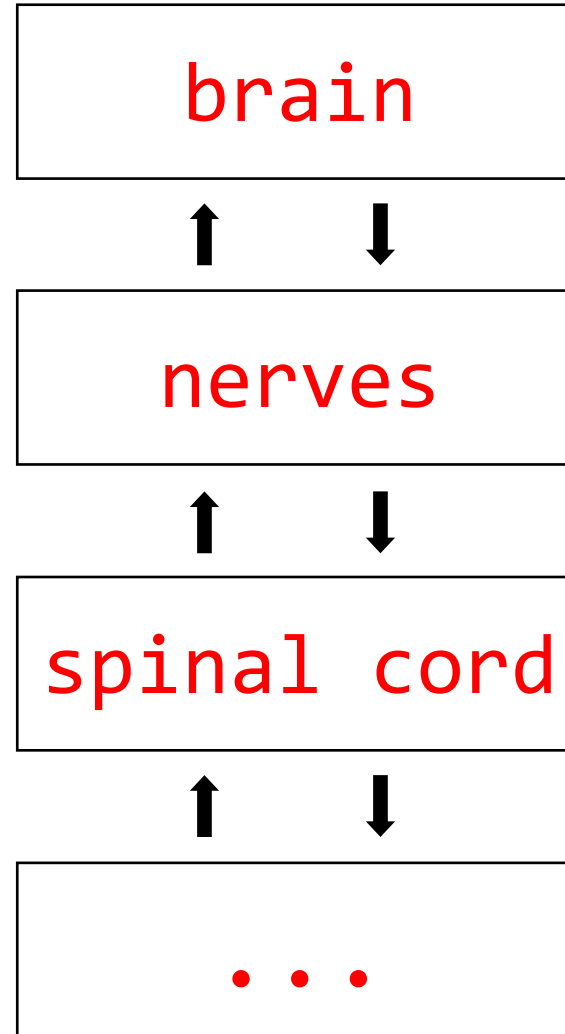
nervous
system

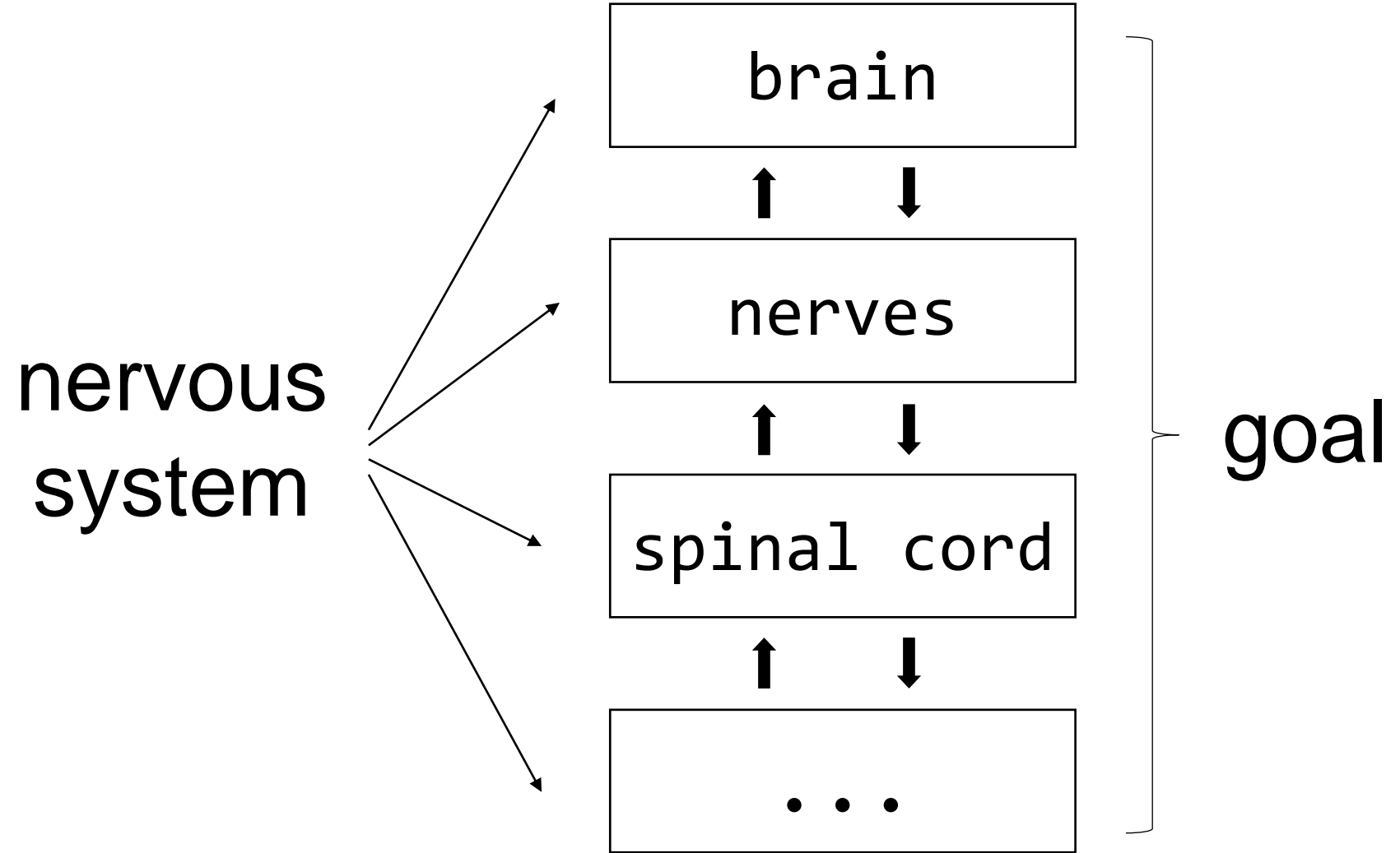


nervous
system

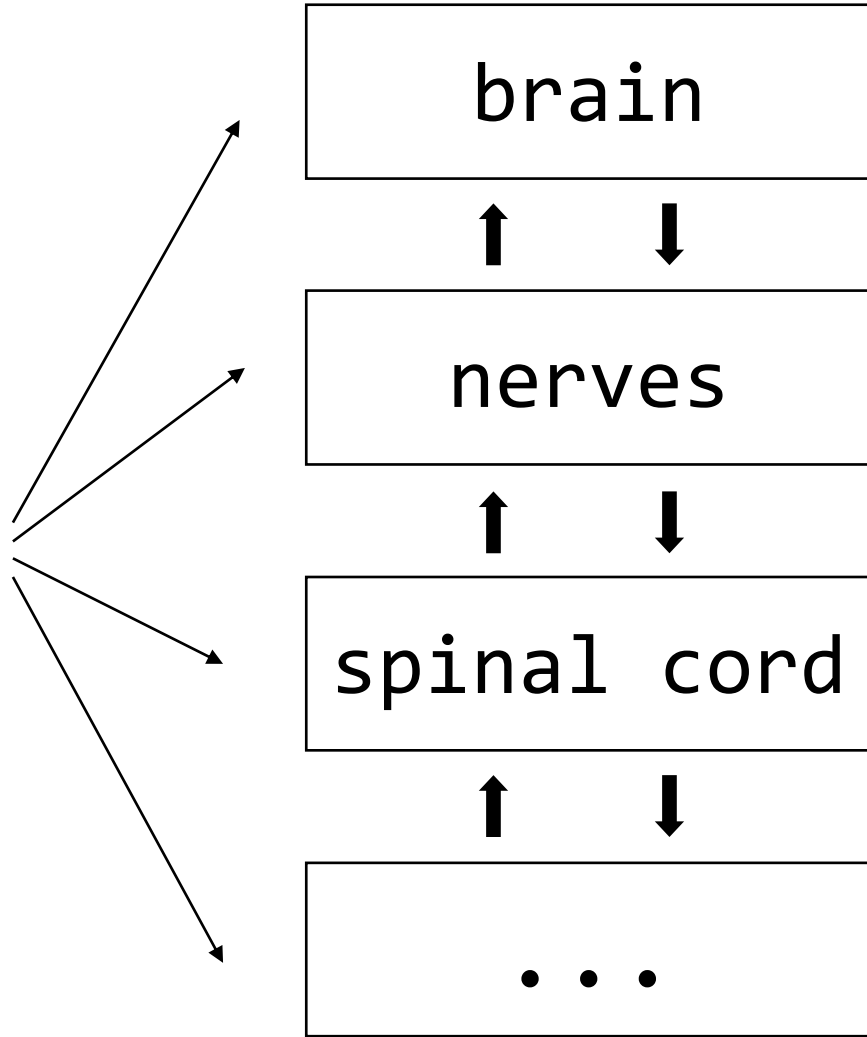


nervous
system





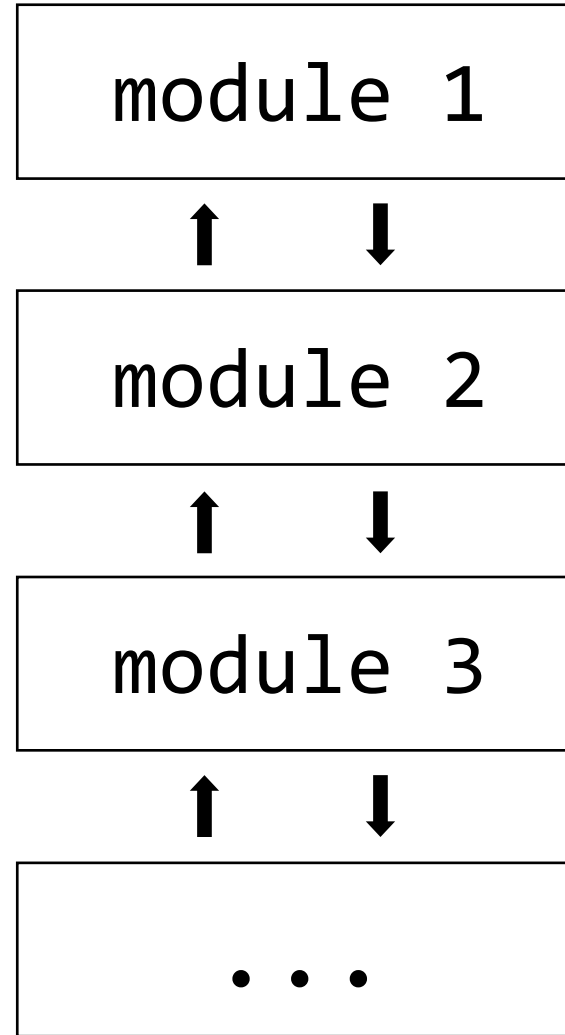
nervous
system

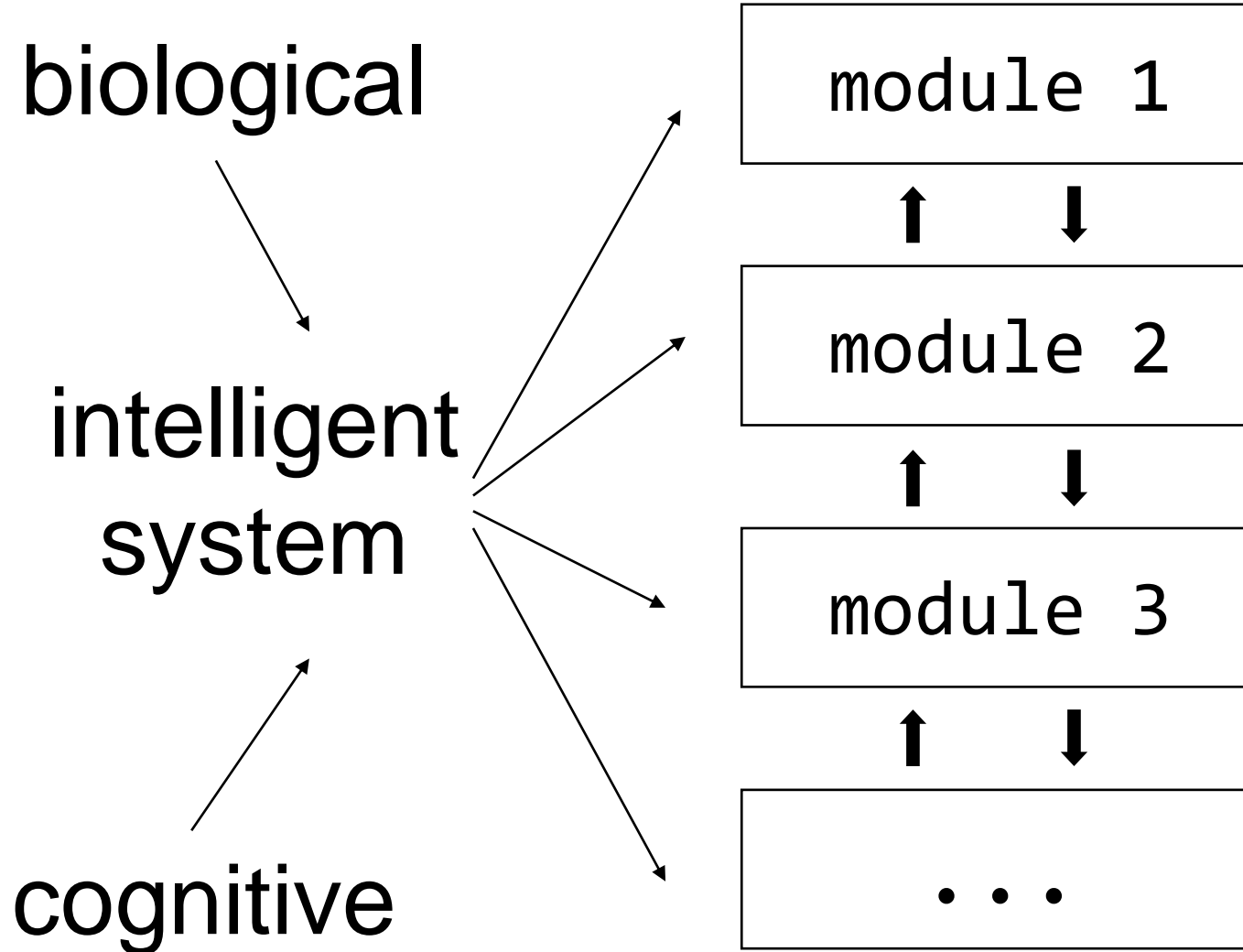


helps all the
parts of the
body to
communicate
with each
other

intelligent system

intelligent
system





biological

intelligent
system

cognitive

module 1



module 2



module 3

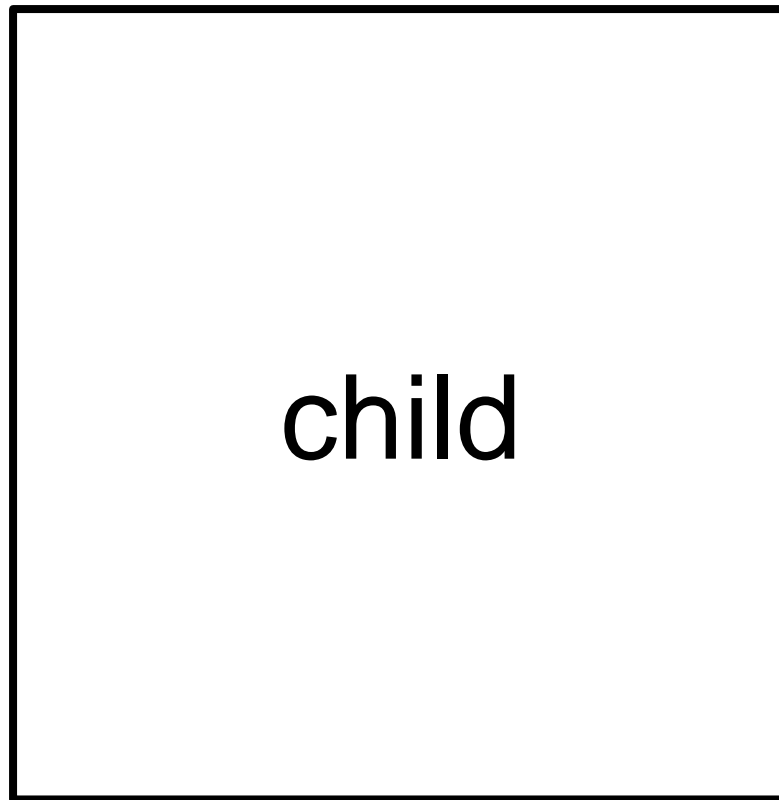


...

biological and cognitive processes



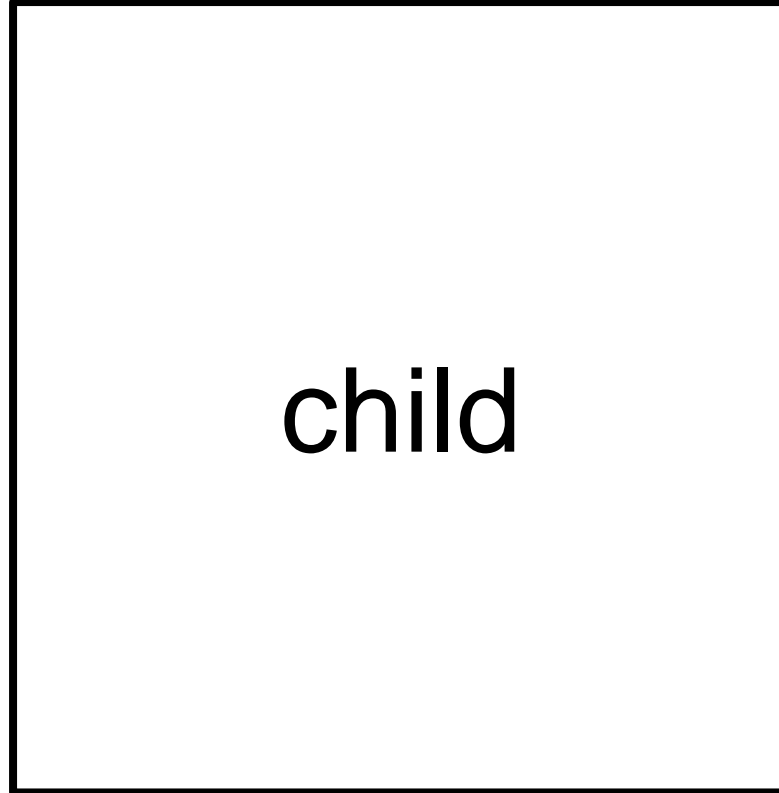
input →



child

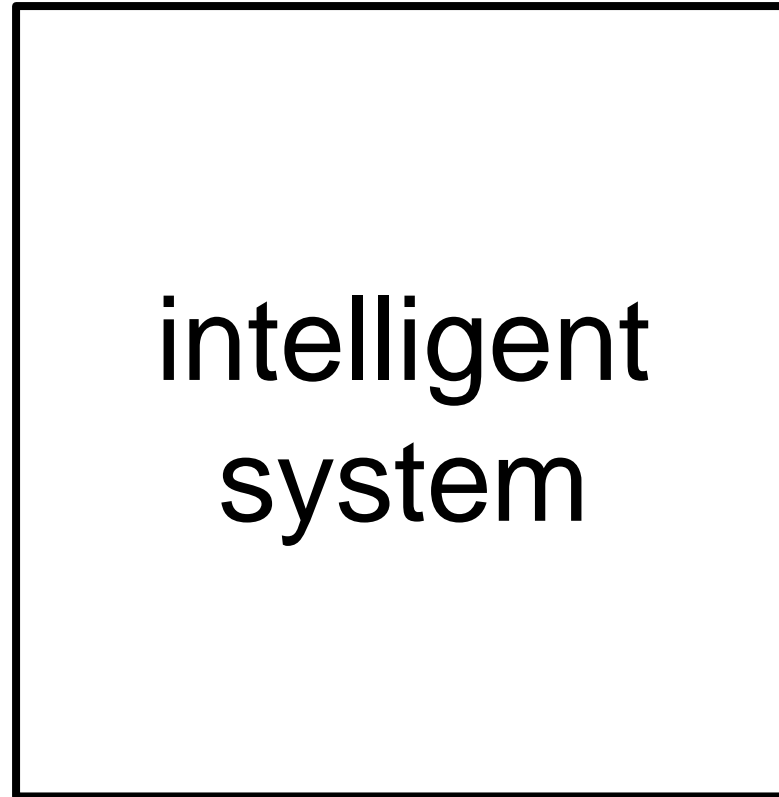
→ output

input →
pain experience



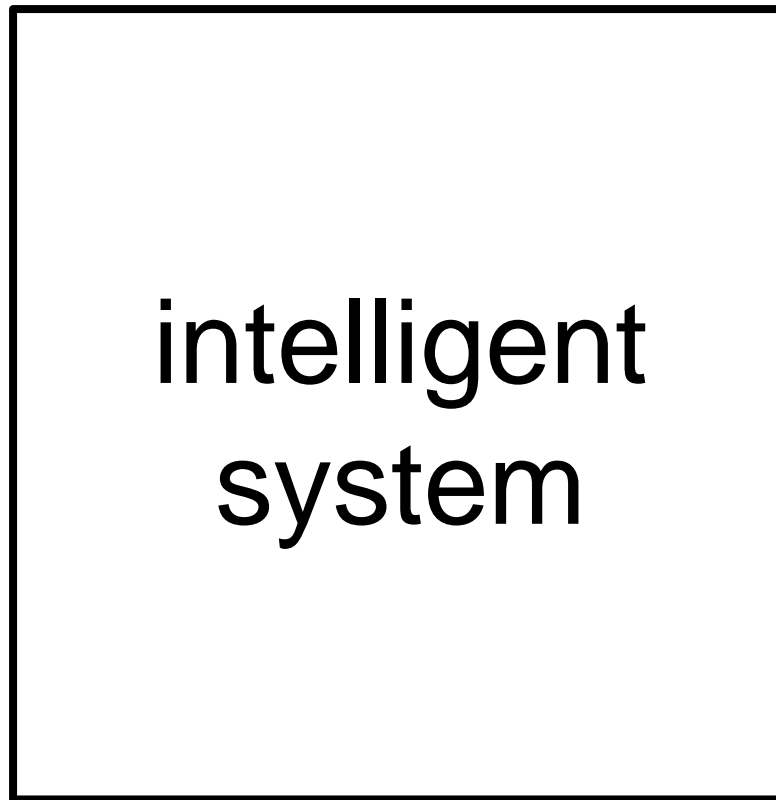
→ output
removing the hand

input →



→ output

input →
data (experience)



→ output
decision

Lazada

Facebook

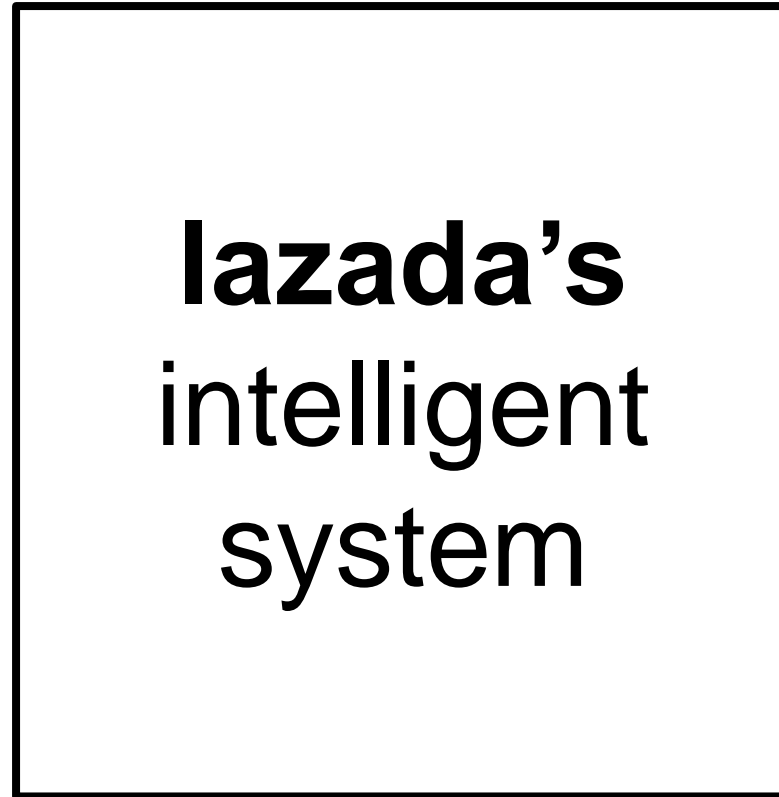
YouTube

Lazada

Facebook

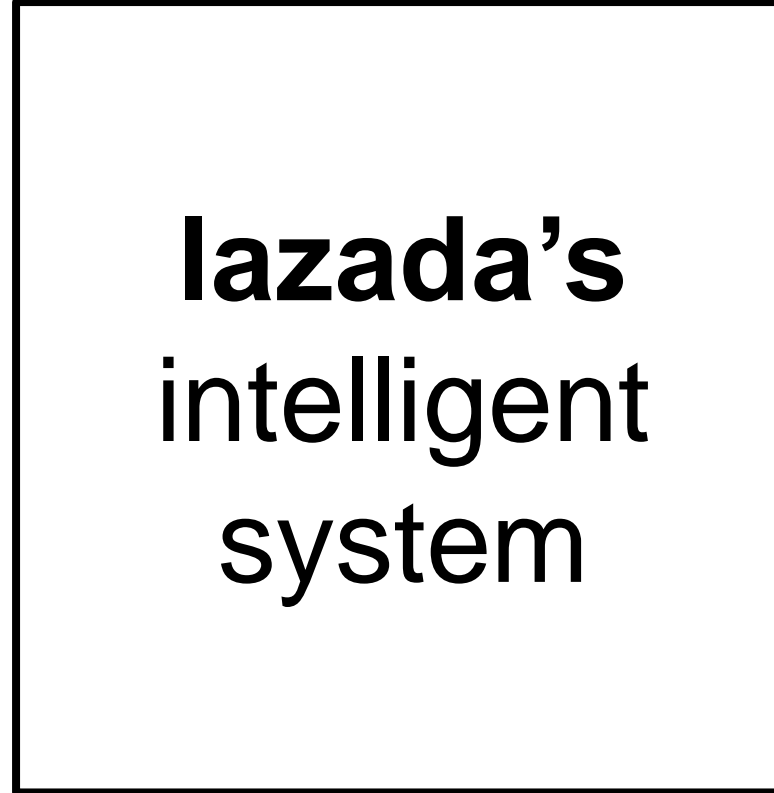
YouTube

input →



→ output

input →
you, clicking/liking
that **item**



→ **output**

input →
you, clicking/liking
that **item**

lazada's
intelligent
system

→ **output**
recommend
similar **item**

Lazada

Facebook

YouTube

input →

facebook's
intelligent
system

→ output

input →
you, reacting that
post

facebook's
intelligent
system

→ **output**

input →
you, reacting that
post

facebook's
intelligent
system

→ **output**
recommend
similar **post**

Lazada

Facebook

YouTube

input →

youtube's
intelligent
system

→ output

input →
you, watching that
video

**youtube's
intelligent
system**

→ **output**

input →
you, watching that
video

youtube's
intelligent
system

→ **output**
recommend
similar **video**

Lazada

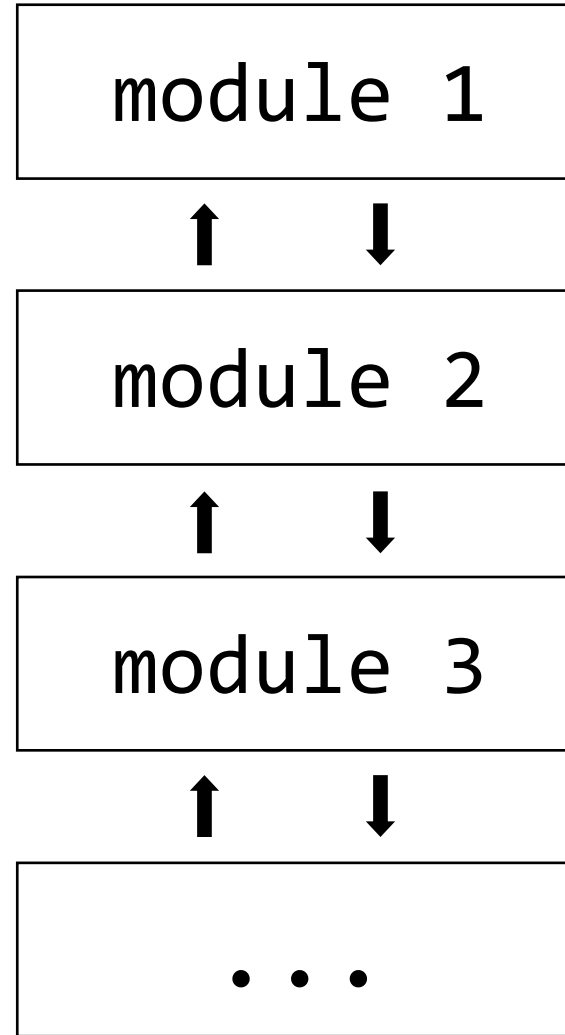
Facebook

YouTube

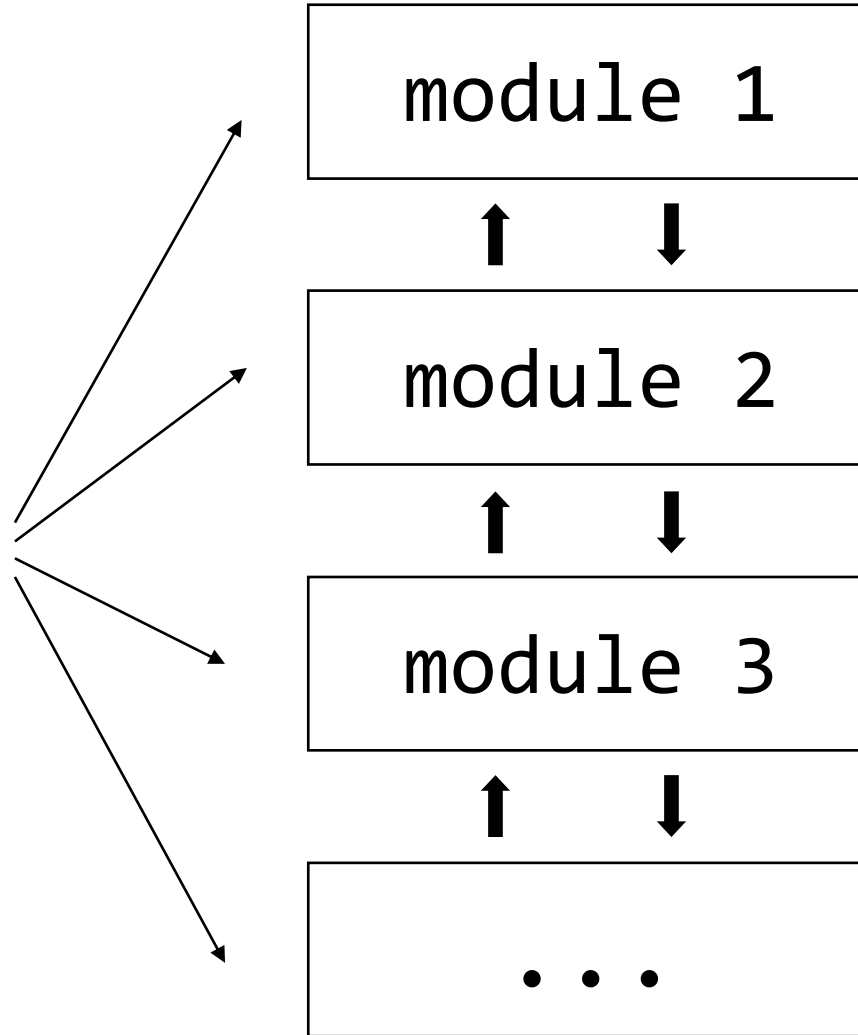


recommender
systems

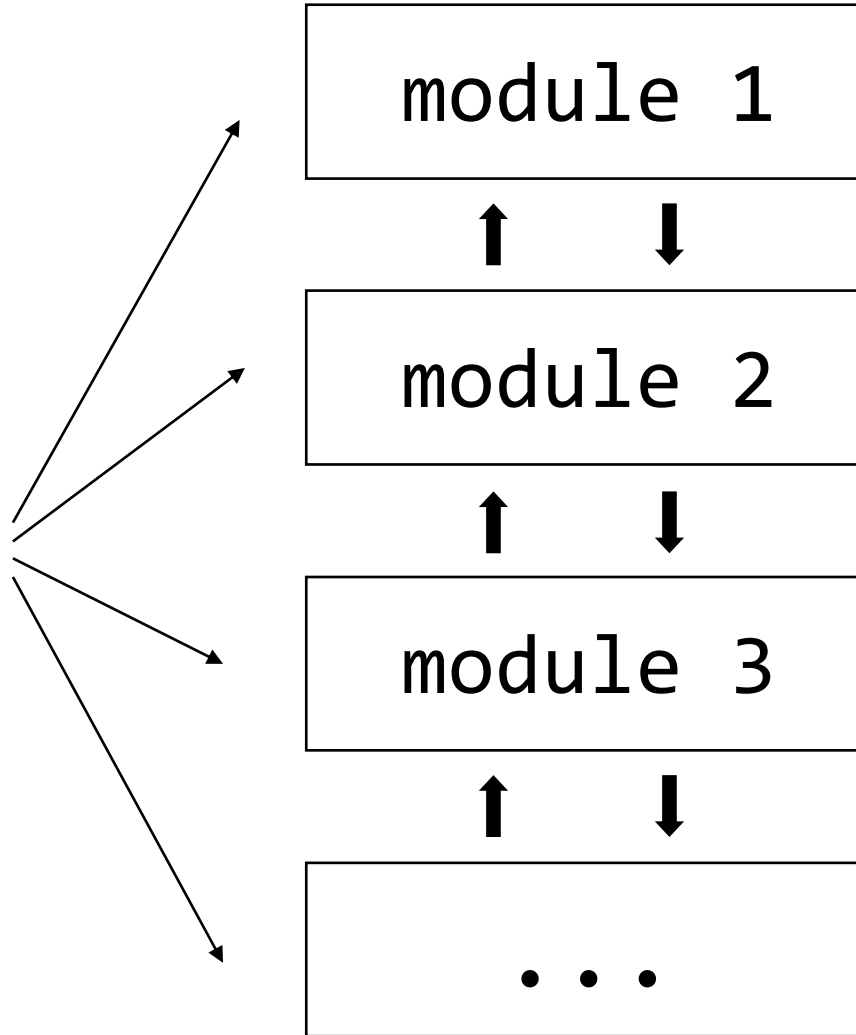
intelligent
system



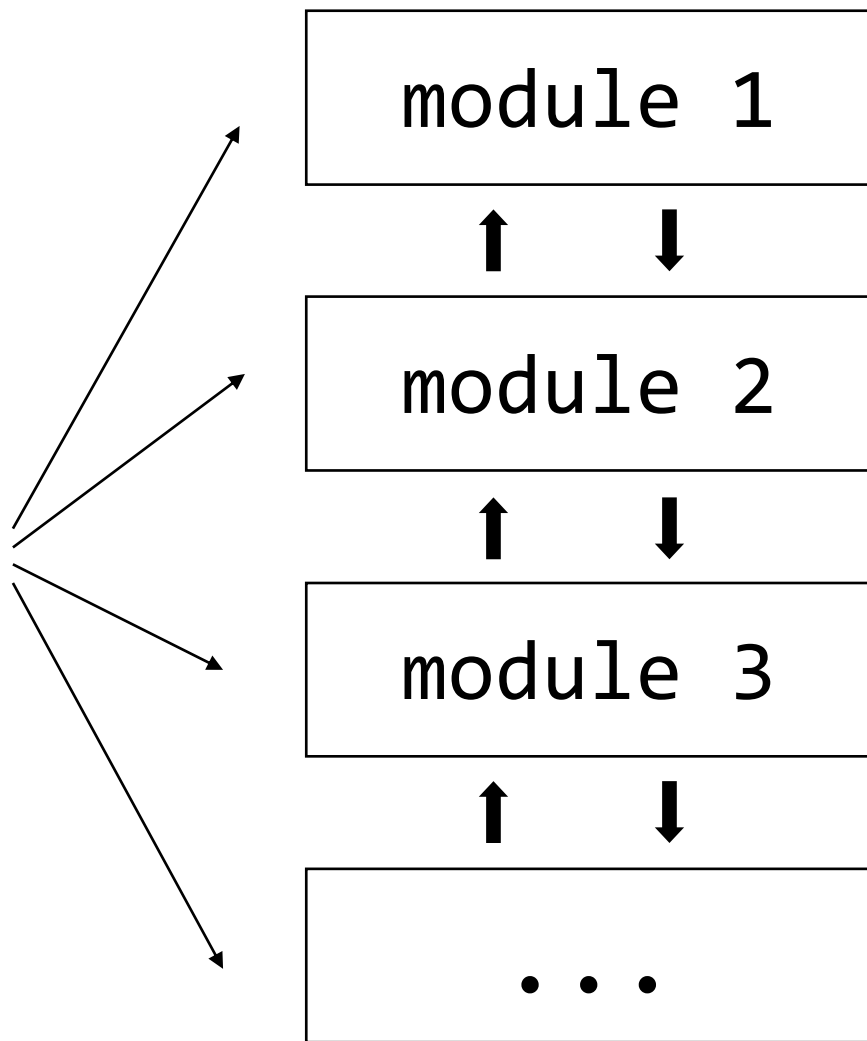
intelligent
system



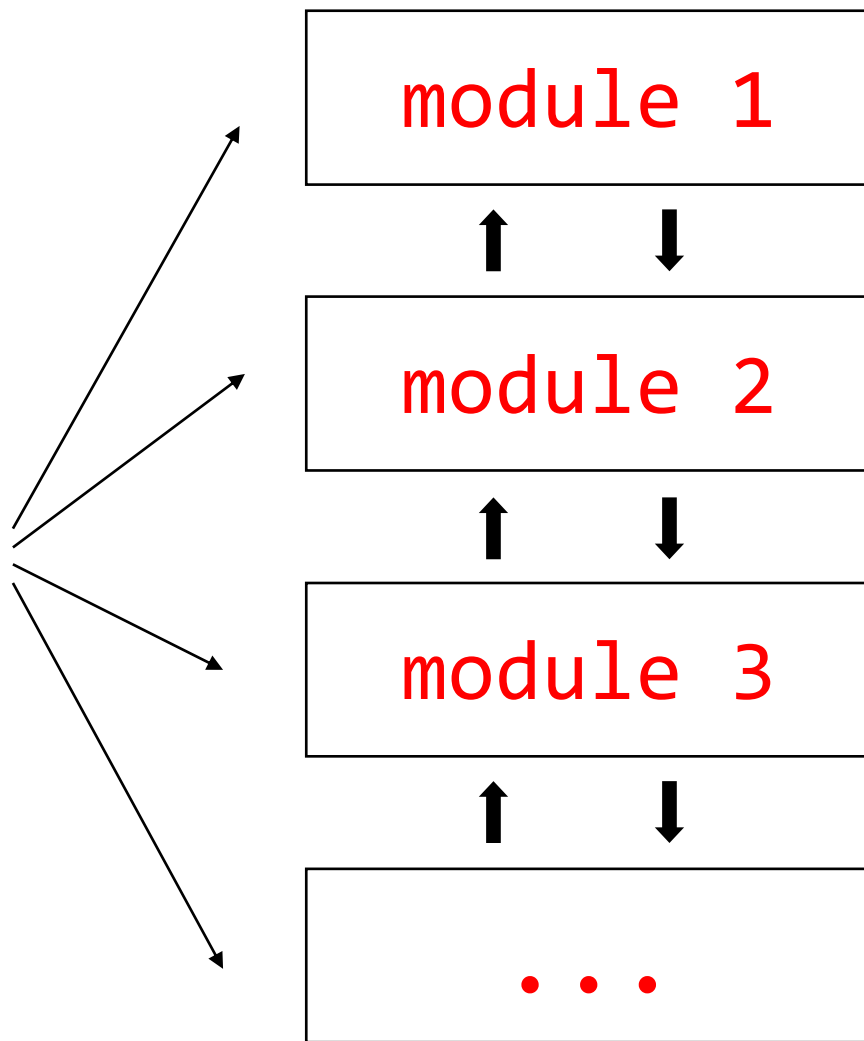
recommender
system



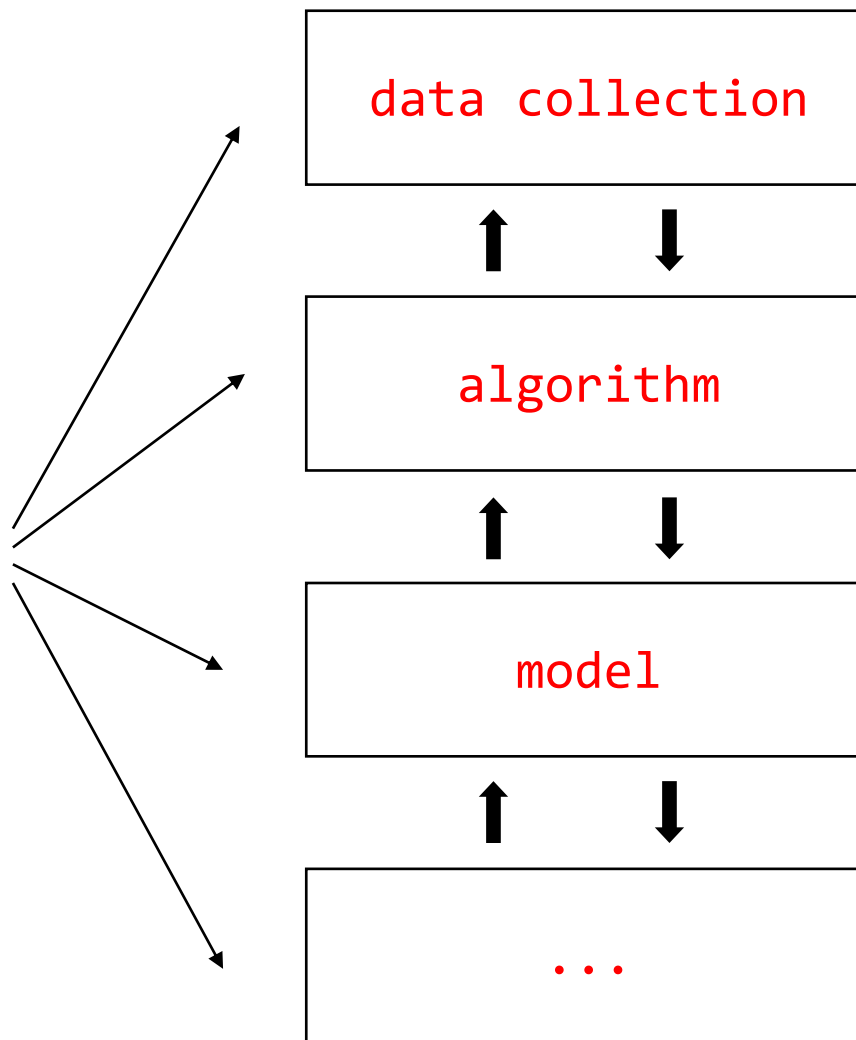
recommender
system



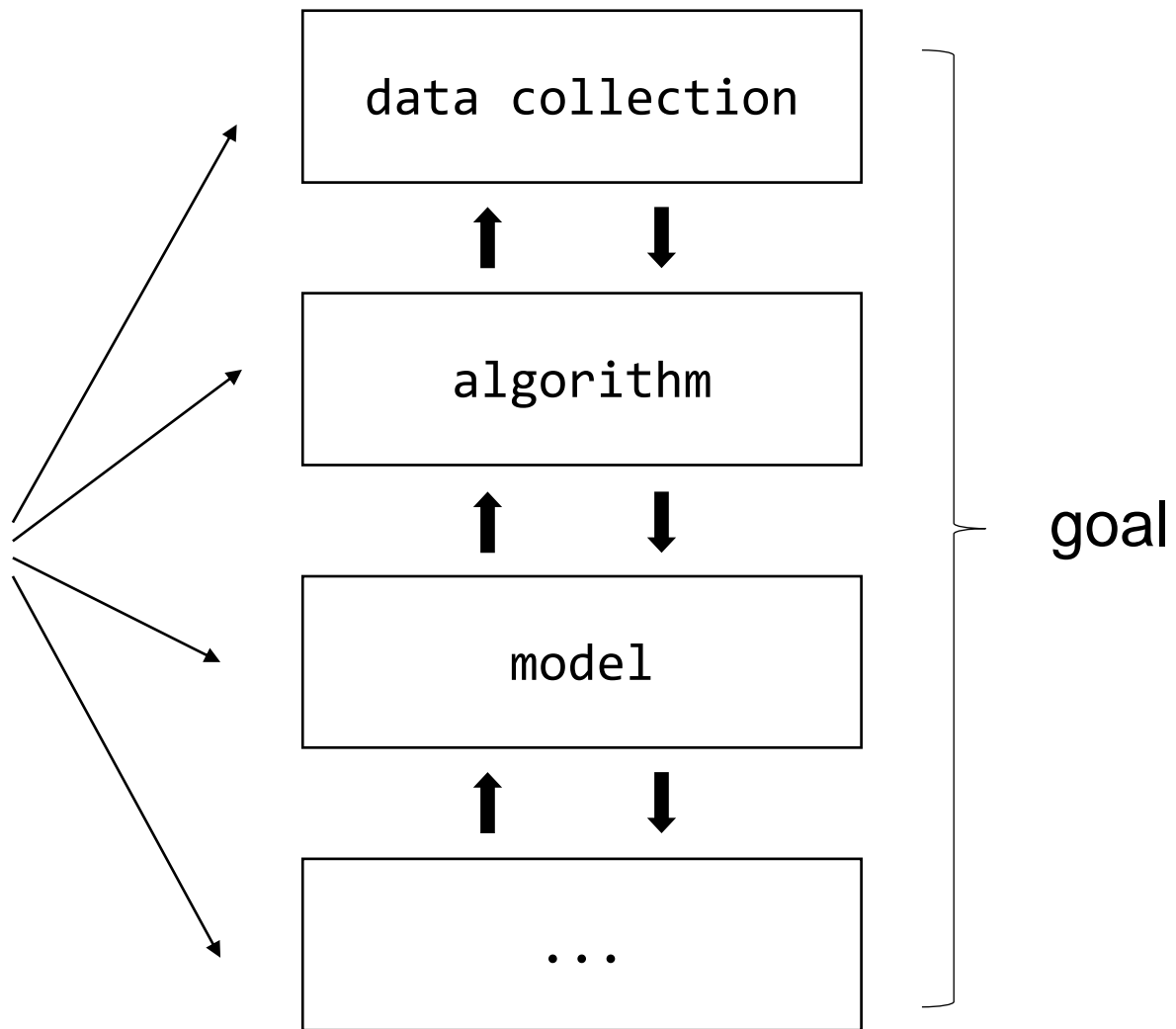
recommender
system



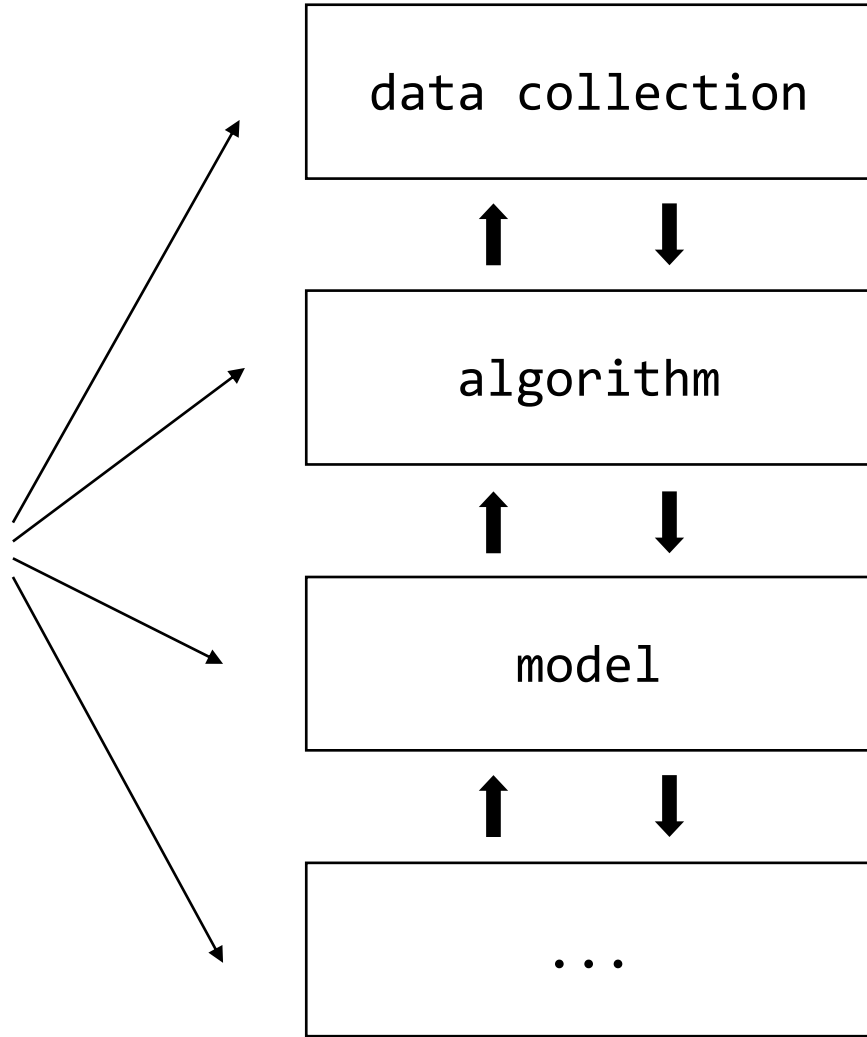
recommender
system



recommender
system



recommender
system



Recommend
something that
users will
probably like

challenges

uncertainty

dynamic world

time-consuming computation

mapping

uncertainty

dynamic world

time-consuming computation

mapping

reality



actual



uncertainty

dynamic world

time-consuming computation

mapping

uncertainty

dynamic world

time-consuming computation

mapping

uncertainty

dynamic world

time-consuming computation

mapping

Questions?

Slide/lectures and modules/notes will be uploaded here:

<https://github.com/louisfacun/teaching/tree/master/cspe102/2022>