

Data Flow Diagram

Analisis Desain Sistem Informasi



Agenda Style

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Data Flow Diagram

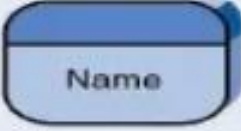
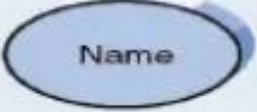
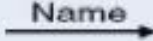

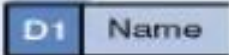
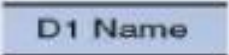
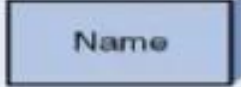
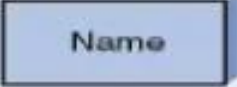
Penggunaan DFD Sebagai Modeling Tool dipopulerkan Oleh **Demacro & Yordan(1979)** dan **Gane & Sarson (1979)** dengan menggunakan pendekatan Metode Analisis Sistem Terstruktur.

DFD menggambarkan arus data dari suatu sistem informasi, baik sistem lama maupun sistem baru secara logika tanpa mempertimbangkan lingkungan fisik dimana data tersebut berada

DFD merupakan alat perancangan sistem yang berorientasi pada alur data yang mudah dikomunikasikan oleh pembuat program

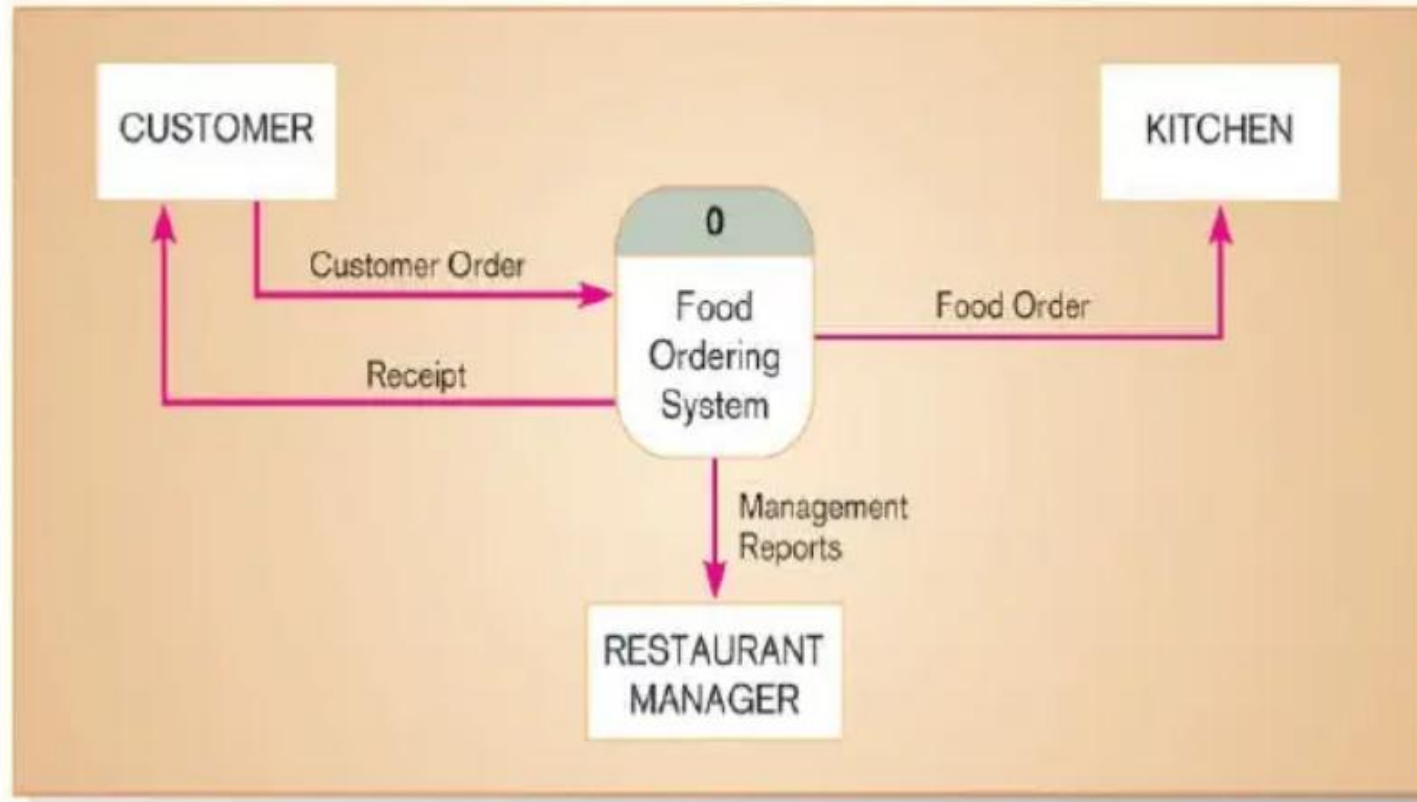


Simbol yang Digunakan

	Data Flow Diagram Element	Typical Computer-Aided Software Engineering Fields	Gane and Sarson Symbol	DeMarco and Yourdan Symbol
Process →	<p>Every <i>process</i> has</p> <ul style="list-style-type: none"> A number A name (verb phrase) A description One or more output data flows Usually one or more input data flows 	<p>Label (name)</p> <p>Type (process)</p> <p>Description (what is it)</p> <p>Process number</p> <p>Process description (Structured English)</p> <p>Notes</p>		
Data flow →	<p>Every <i>data flow</i> has</p> <ul style="list-style-type: none"> A name (a noun) A description One or more connections to a process 	<p>Label (name)</p> <p>Type (flow)</p> <p>Description</p> <p>Alias (another name)</p> <p>Composition (description of data elements)</p> <p>Notes</p>		
Data store →	<p>Every <i>data store</i> has</p> <ul style="list-style-type: none"> A number A name (a noun) A description One or more input data flows Usually one or more output data flows 	<p>Label (name)</p> <p>Type (store)</p> <p>Description</p> <p>Alias (another name)</p> <p>Composition (description of data elements)</p> <p>Notes</p>		
External entity →	<p>Every <i>external entity</i> has</p> <ul style="list-style-type: none"> A name (a noun) A description 	<p>Label (name)</p> <p>Type (entity)</p> <p>Description</p> <p>Alias (another name)</p> <p>Entity description</p> <p>Notes</p>		

Contoh Context Diagram

Figure 7-4 Context diagram of Hoosier Burger's food ordering system

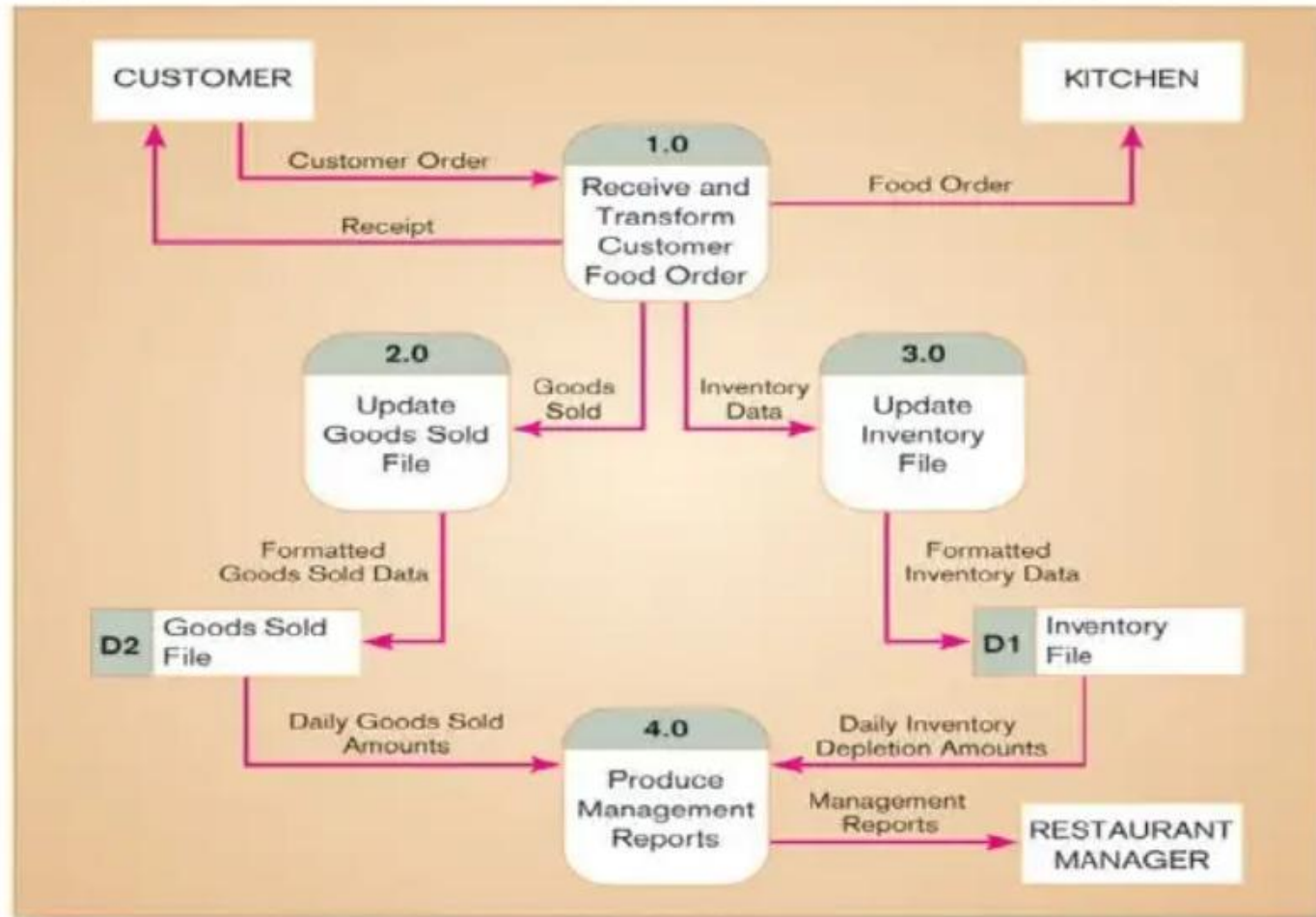


Context diagram shows the system boundaries, external entities that interact with the system, and major information flows between entities and the system.

NOTE: only one process symbol, and no data stores shown.

Contoh DFD Level 0

Figure 7-5 Level-0 DFD of Hoosier Burger's food ordering system

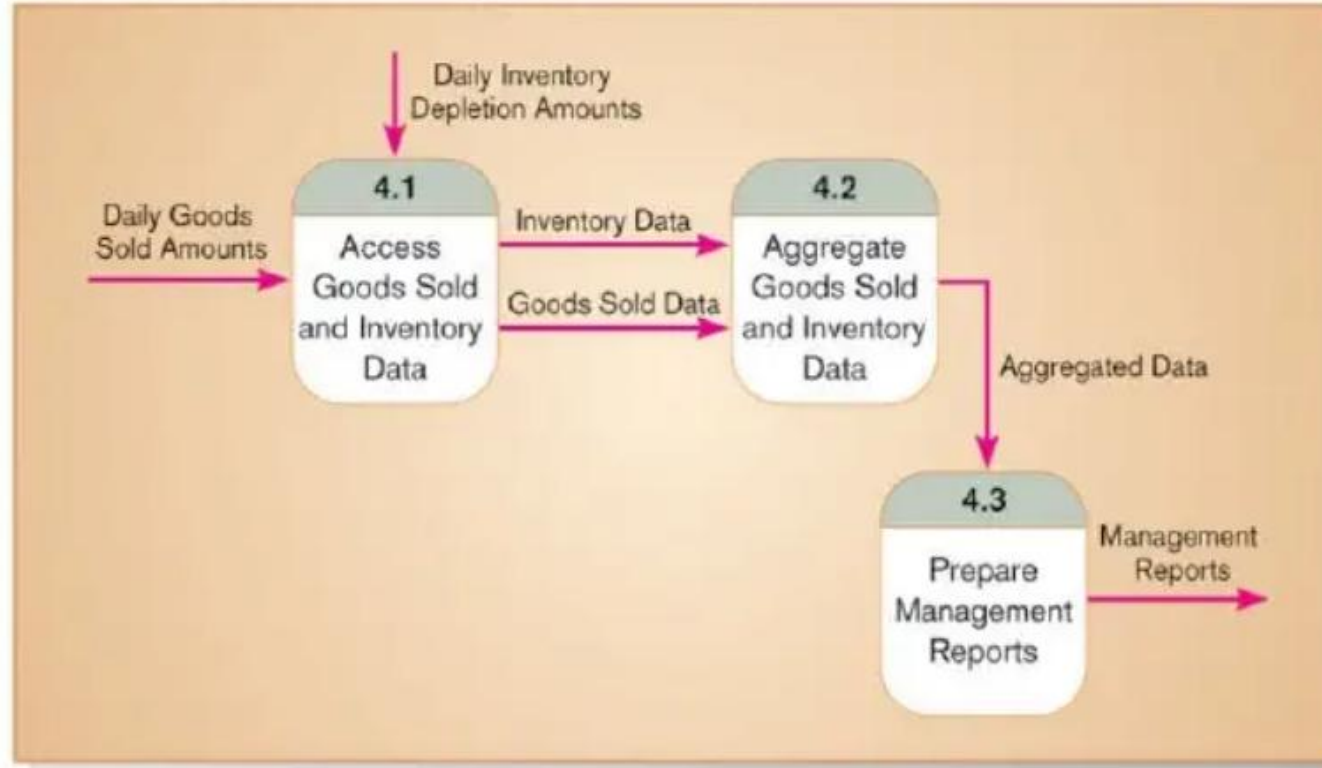


Level-0 DFD shows the system's major processes, data flows, and data stores at a high level of abstraction.

Processes are labeled 1.0, 2.0, etc. These will be decomposed into more primitive (lower-level) DFDs.

Contoh DFD Level 1

Figure 7-8 Level-1 diagram showing the decomposition of Process 4.0 from the level-0 diagram for Hoosier Burger's food ordering system



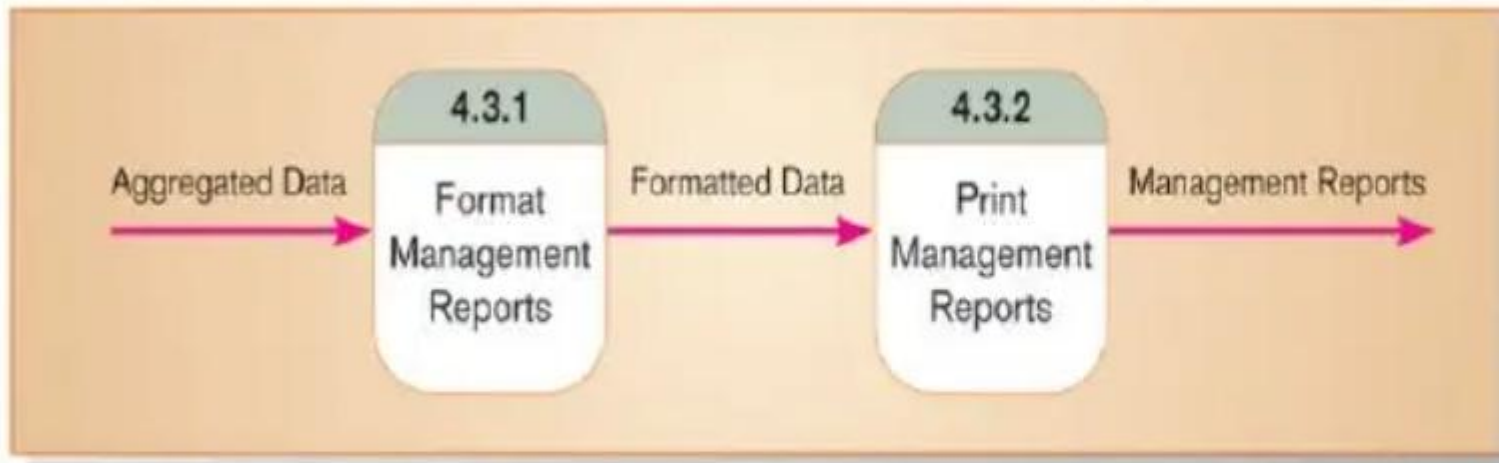
Level-1 DFD shows the sub-processes of one of the processes in the Level-0 DFD.

This is a Level-1 DFD for Process 4.0.

Processes are labeled 4.1, 4.2, etc. These can be further decomposed in more primitive (lower-level) DFDs if necessary.

Contoh DFD Level-n

Figure 7-9 Level-2 diagram showing the decomposition of Process 4.3 from the level-1 diagram for Process 4.0 for Hoosier Burger's food ordering system



Level- n DFD shows the sub-processes of one of the processes in the Level $n-1$ DFD.

This is a Level-2 DFD for Process 4.3.

Processes are labeled 4.3.1, 4.3.2, etc. If this is the lowest level of the hierarchy, it is called a *primitive DFD*.

Syarat Pembuatan DFD



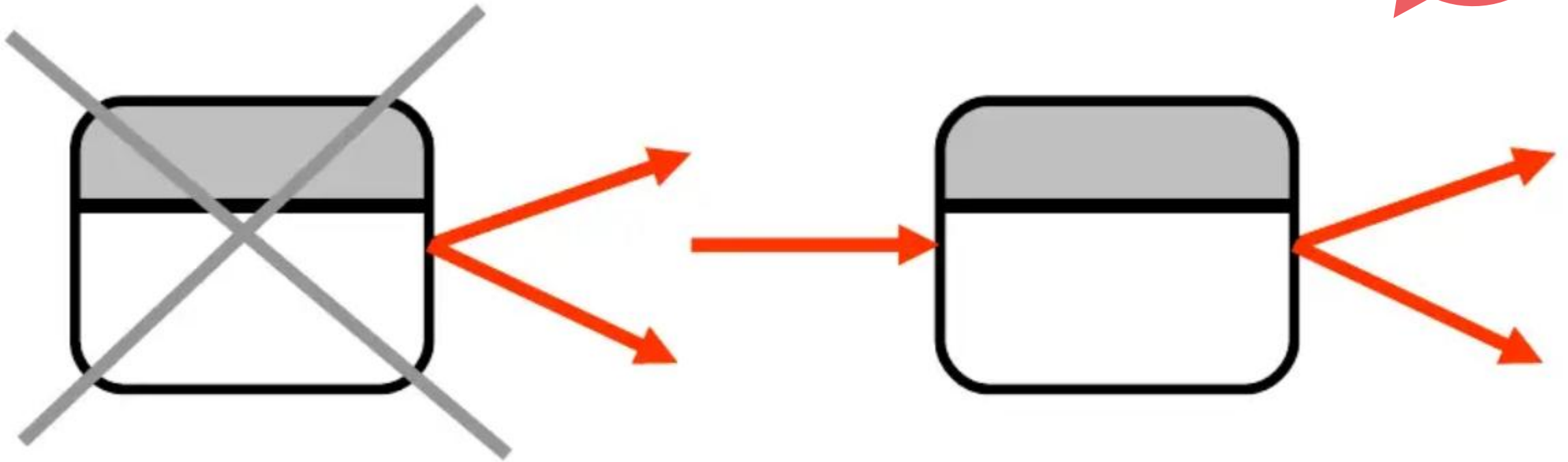
DFD yang benar, menyenangkan untuk dilihat dan mudah dibaca dan di pahami oleh pemakai.

Syarat-syarat pembuatan DFD ini adalah :

1. Pemberian nama yang sesuai untuk tiap komponen DFD
2. Pemberian nomor pada komponen proses
3. Peletakan gambar DFD jelas dan enak dilihat
4. Penghindaran penggambaran DFD yang rumit
5. Pemastian DFD yang dibentuk itu sesuai dengan sistem yang dibuat

DFD Rules

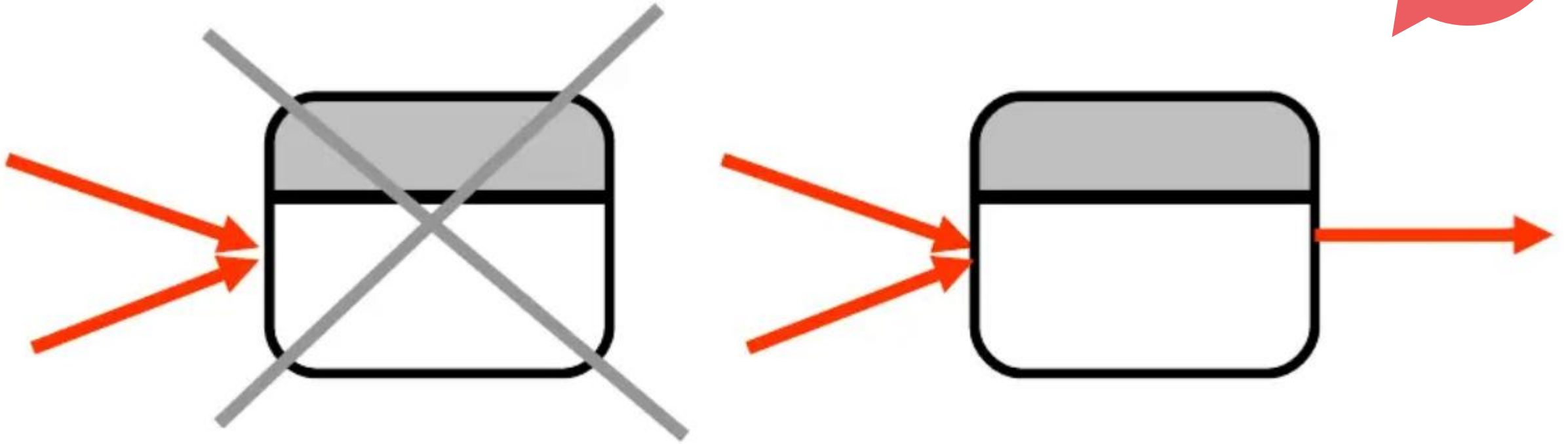
1



No process can have only outputs

DFD Rules

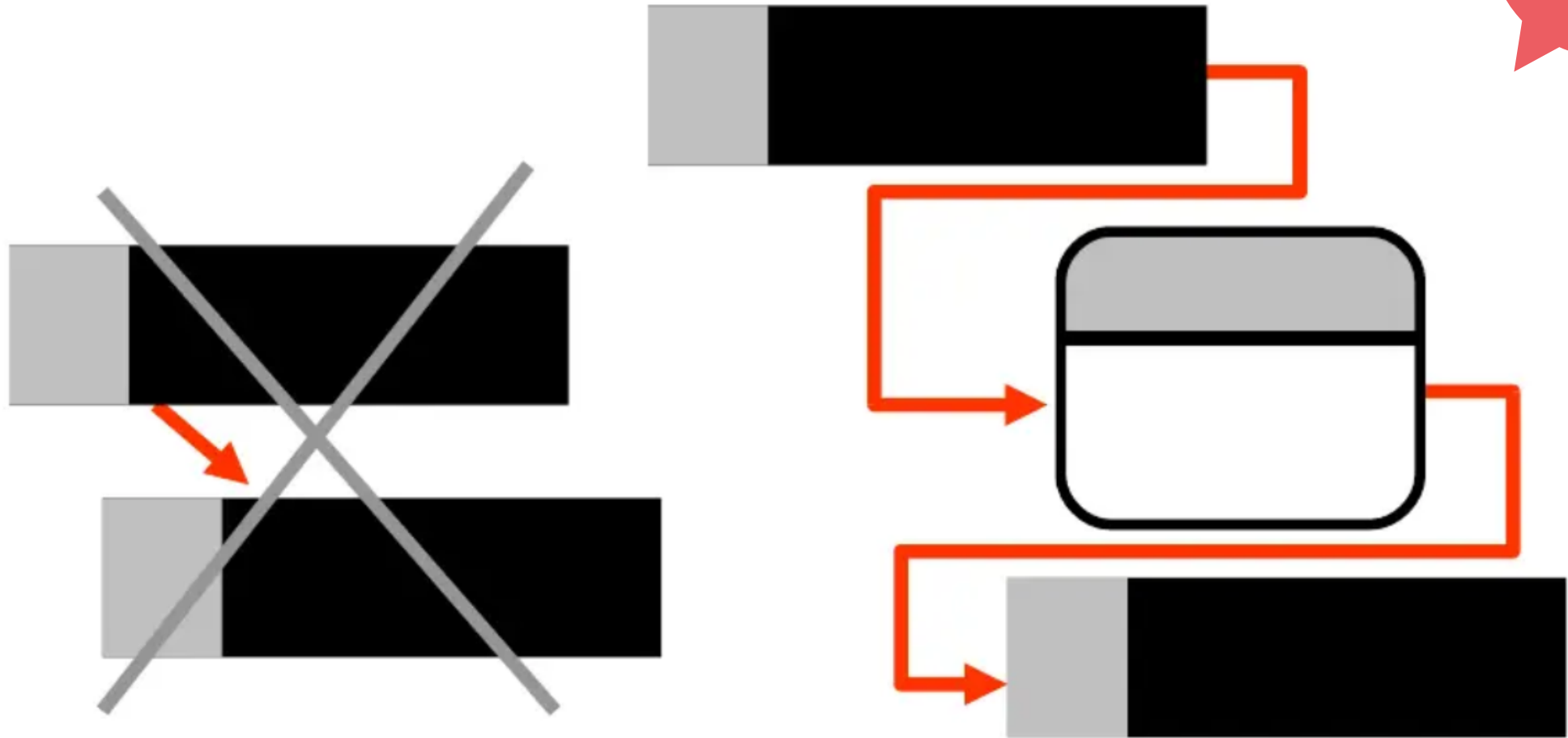
2



No process can have only inputs

DFD Rules

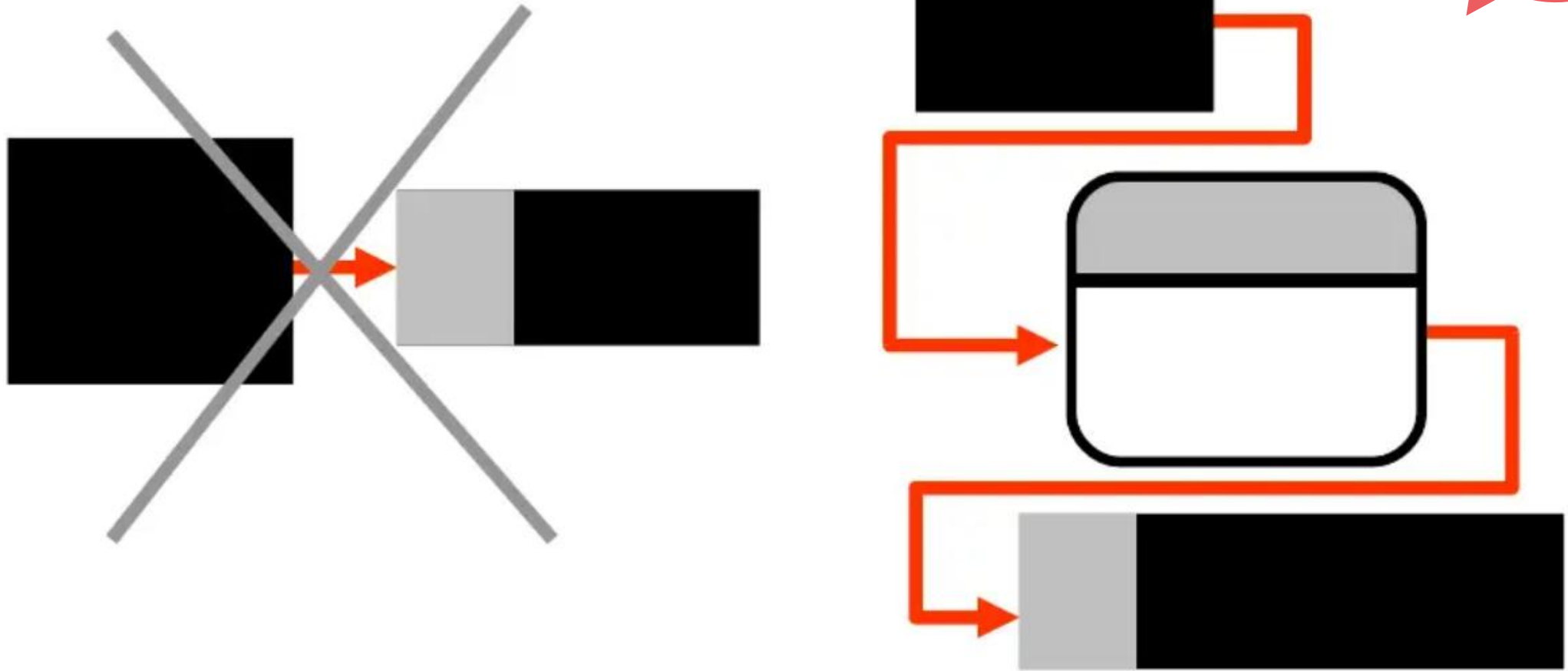
3



Data cannot move directly from one data store to another

DFD Rules

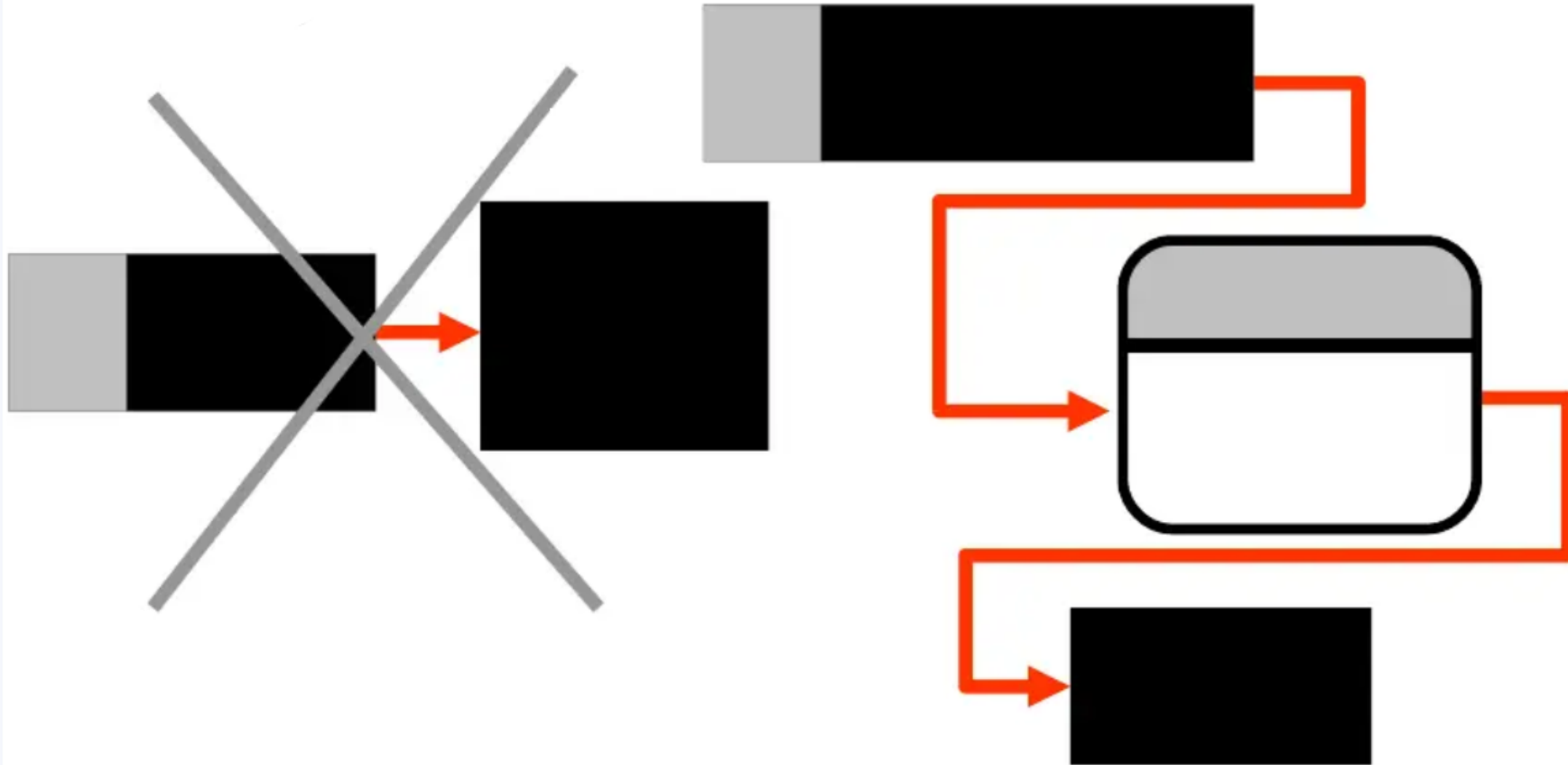
4



Data cannot move directly from an external entity to a data store

DFD Rules

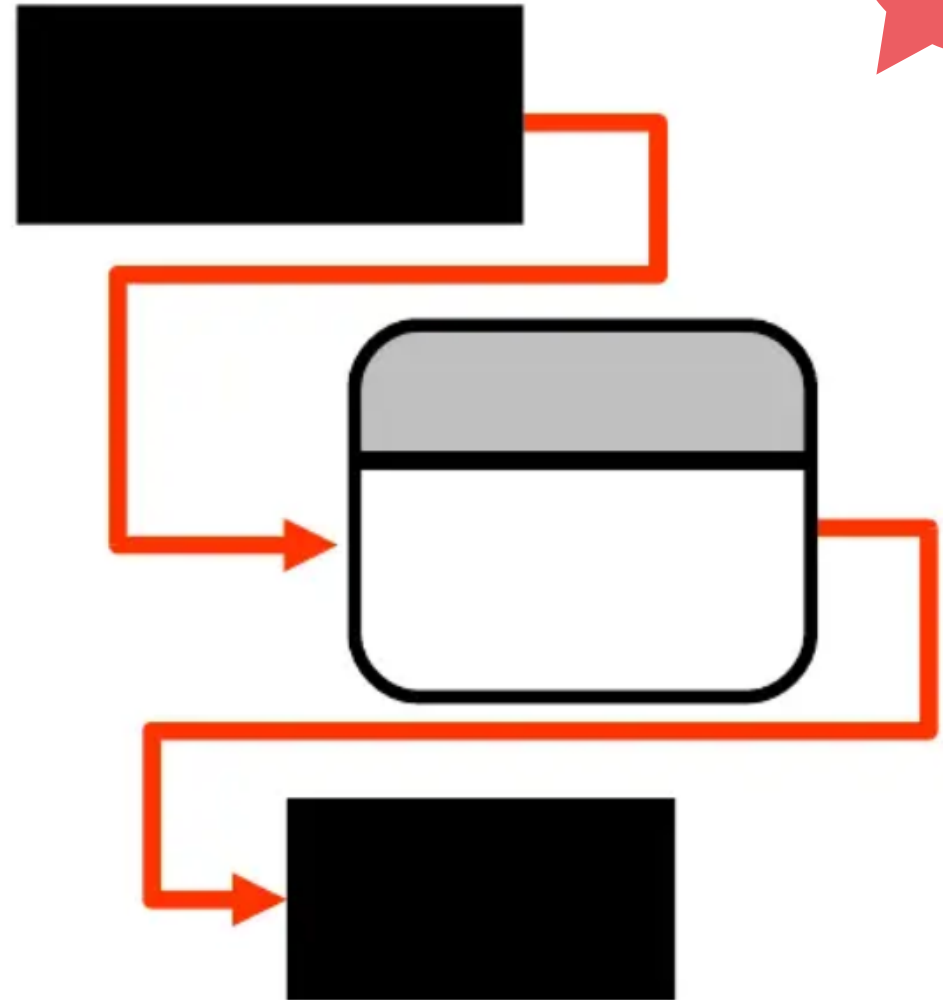
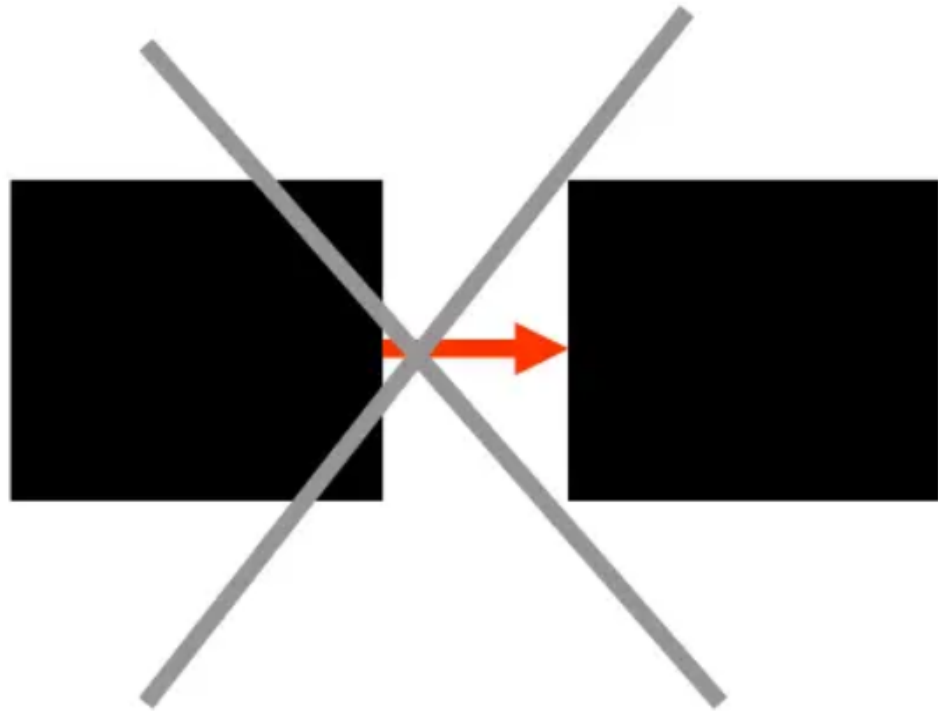
5



Data cannot move directly from a data store to an external entity (sink)

DFD Rules

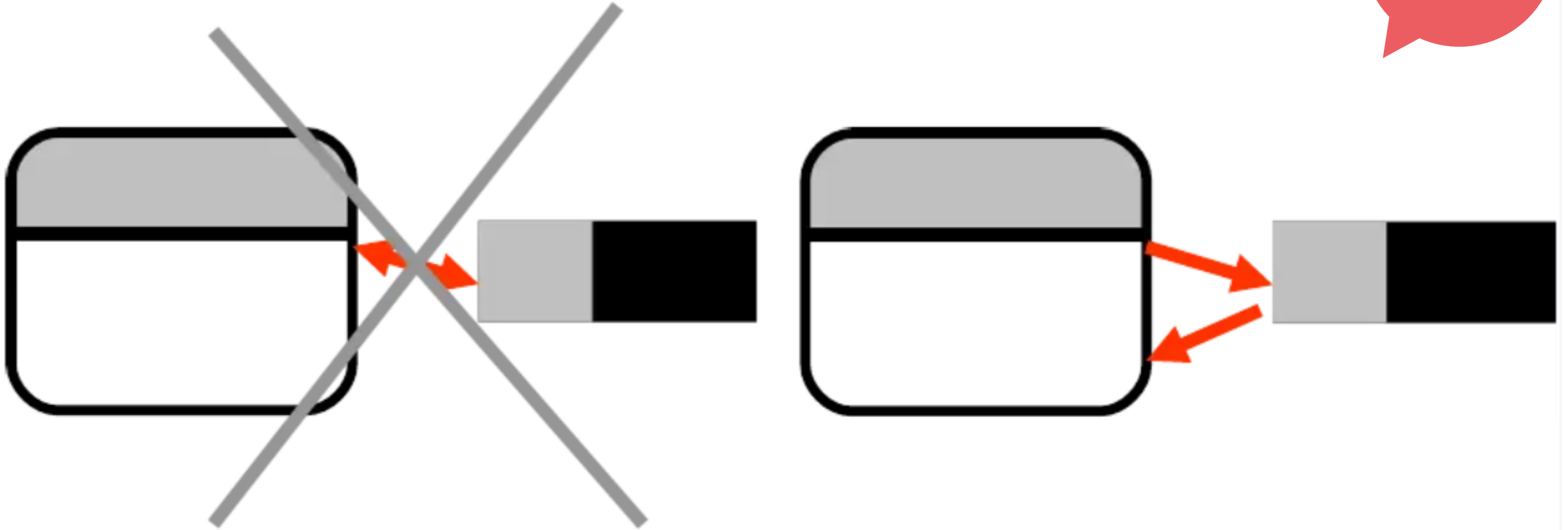
6



Data cannot move directly from an external source to an external sink

DFD Rules

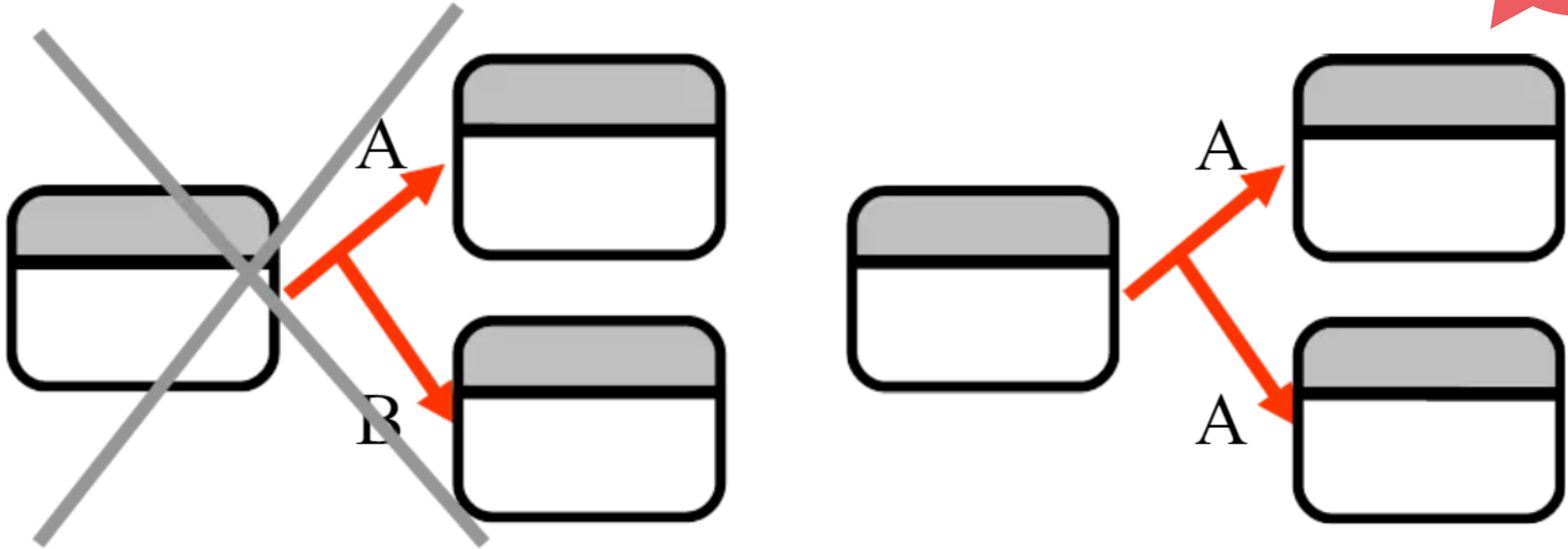
7



A data flow has only one direction of flow between symbols

DFD Rules

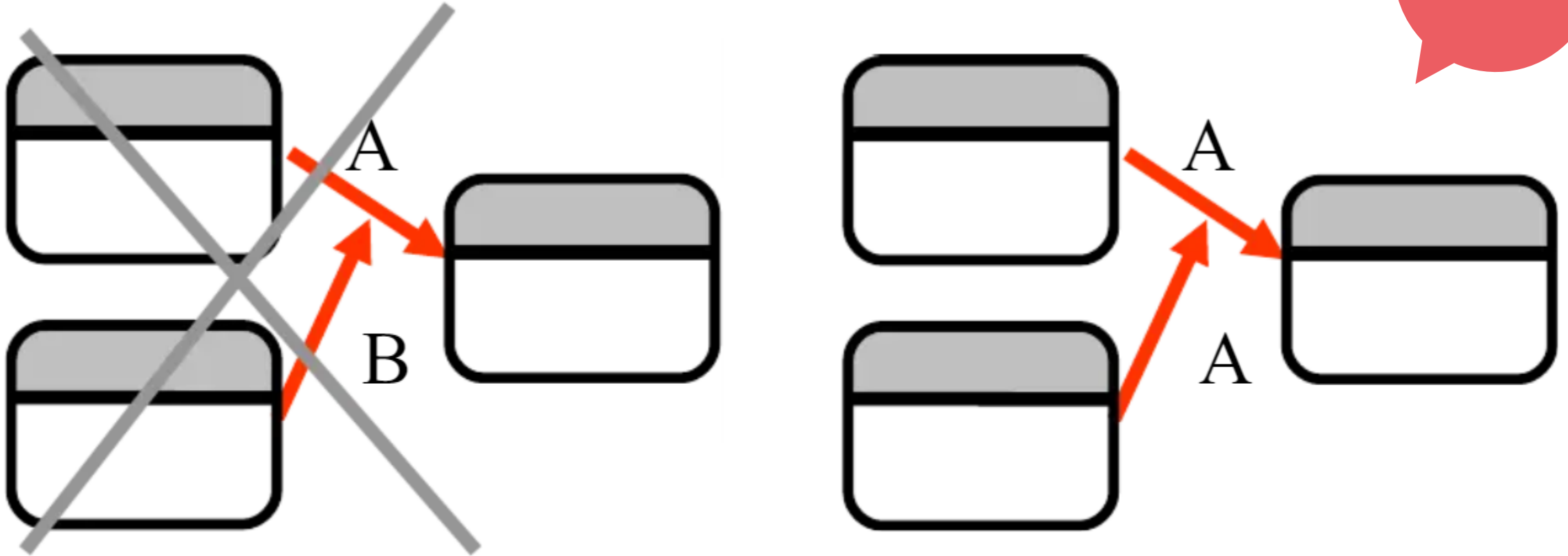
8



A fork in data flow means only the exactly same data goes from a common location to two or more different processes

DFD Rules

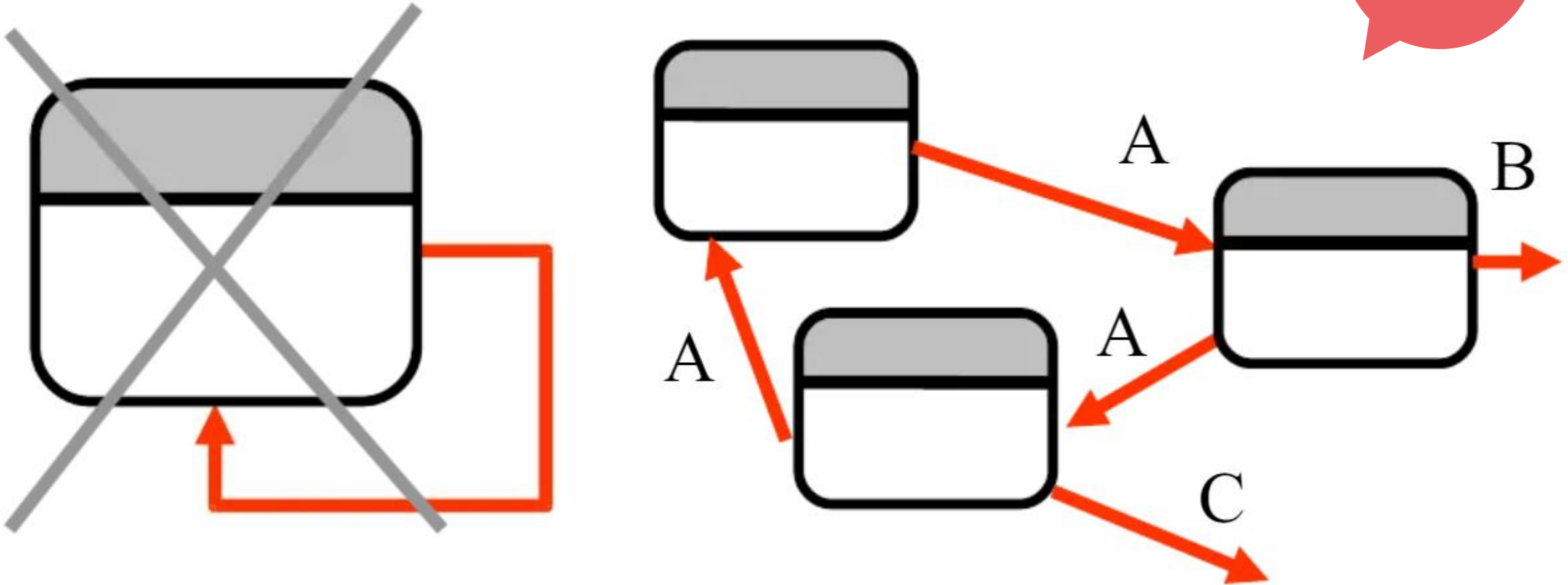
9



A join in a data flow means that exactly same data goes from any of two or more different processes, data stores to a common location

DFD Rules

10



No recursive data flow on a process

DFD Rules

11



A data flow to a data store means update (delete or change)

DFD Rules

12



A data flow from a data store means retrieve or use

THANK YOU

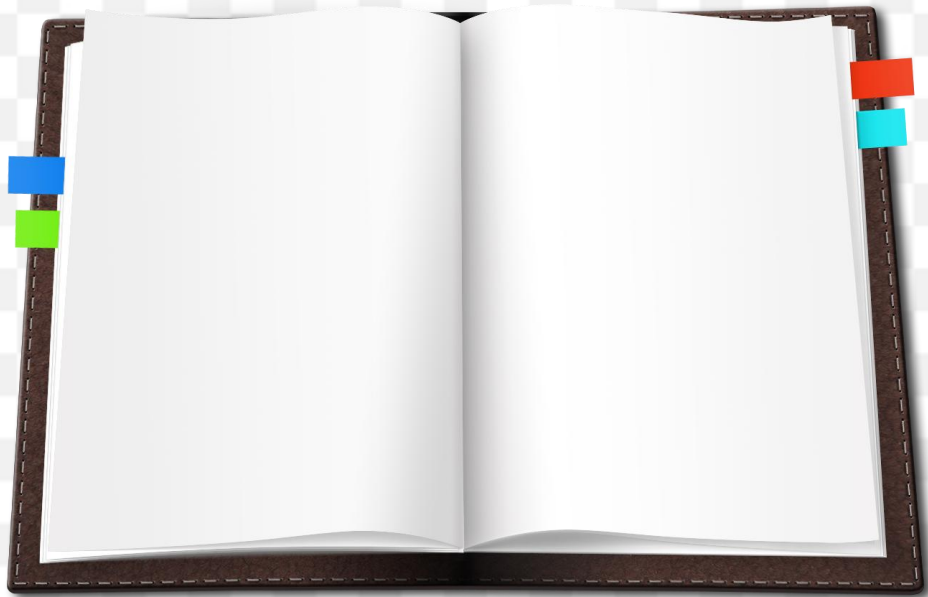
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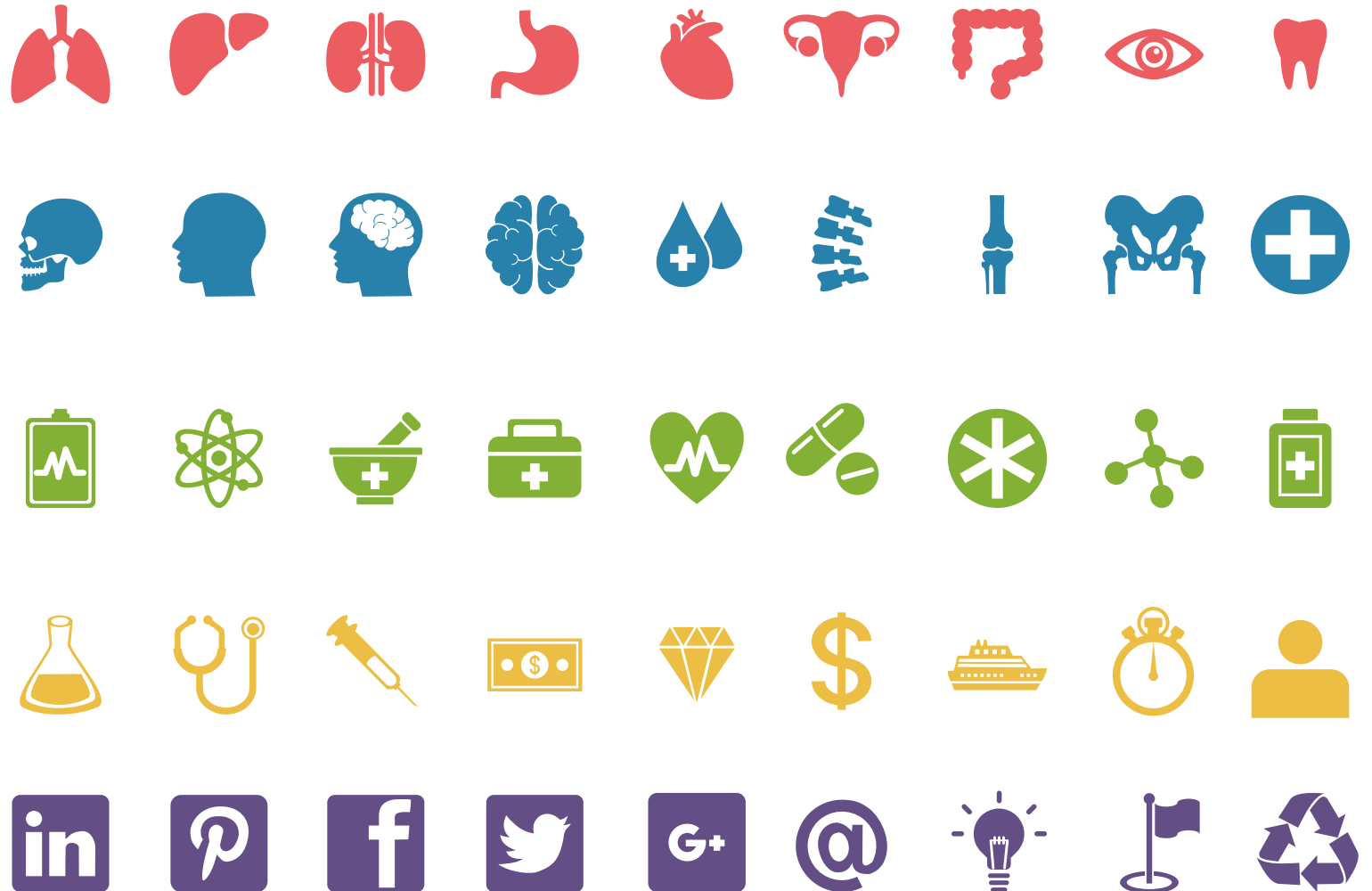
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