GIS-based Fire Safety Management System
&
Overall Fire Safety Management System

FireVisual

Tracesoft , LTD

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1 Necessity

Simple Information

The GIS and Drawing is too Simple to manage the information:
Fire Inspection
Fire Suppression
Fire Evacuation
Fire Drill

Low-Efficient

Three-ring binders
Cards.
Easy to fake and difficult to track, census and evaluate

Unclear Responsibility

Responsibility chain unclear

AHJ ≠ God

No fire safety big data for decision

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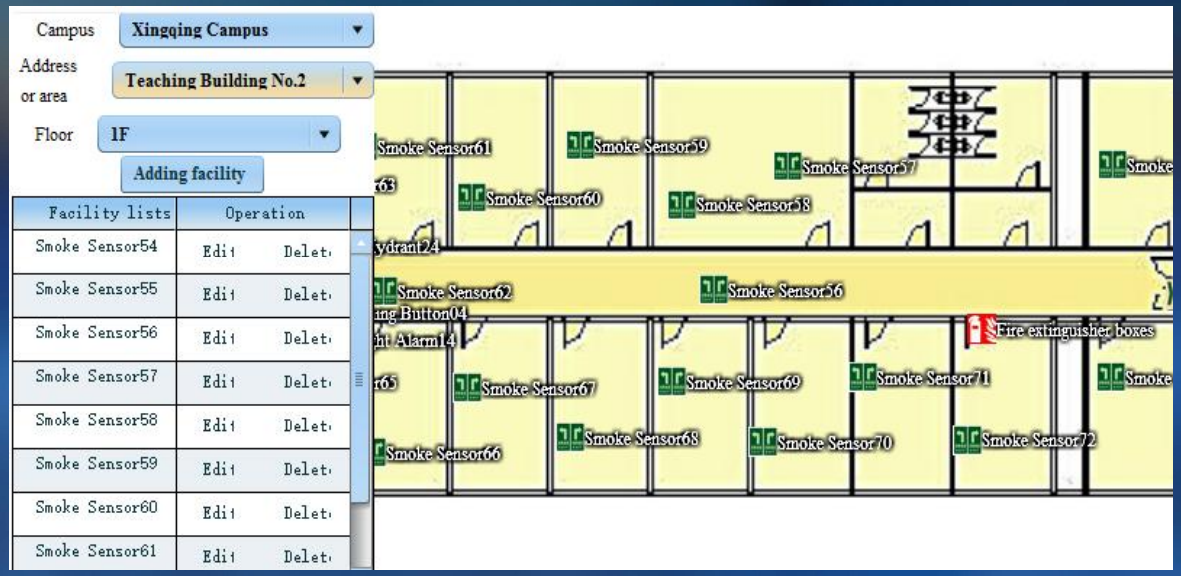
2 GIS contents

- 2.1. for inspection mainly
  - Campus, Building

2 GIS contents

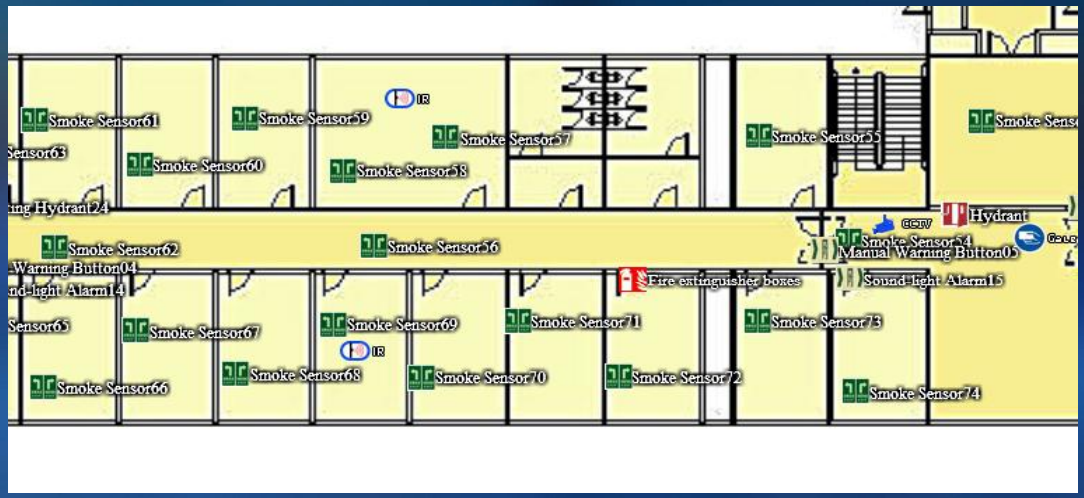
- Floor

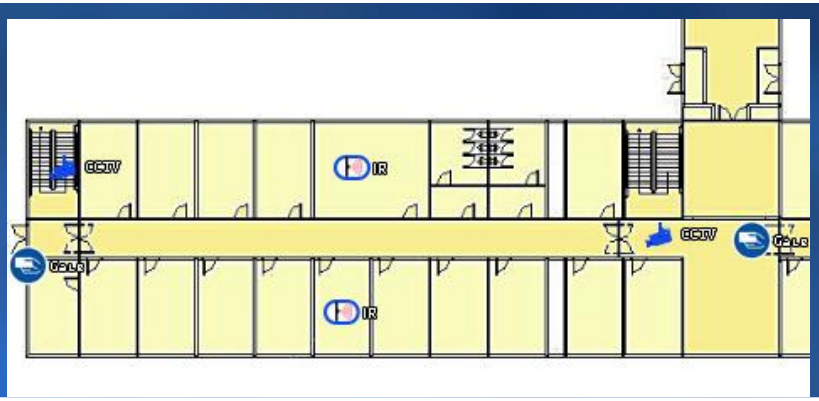


- Inspection point
  - A zone of inspection, includes all facilities need to be inspected in the zone.

2 GIS contents

- Facilities
  - Fire Safety
  - CCTV
  - IR
  - Door Access Control





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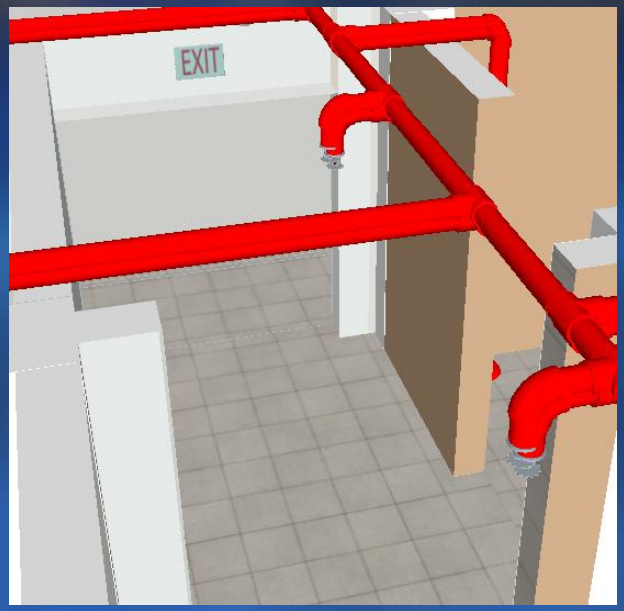
2 GIS contents

- 2.2 for evacuation
  - exit



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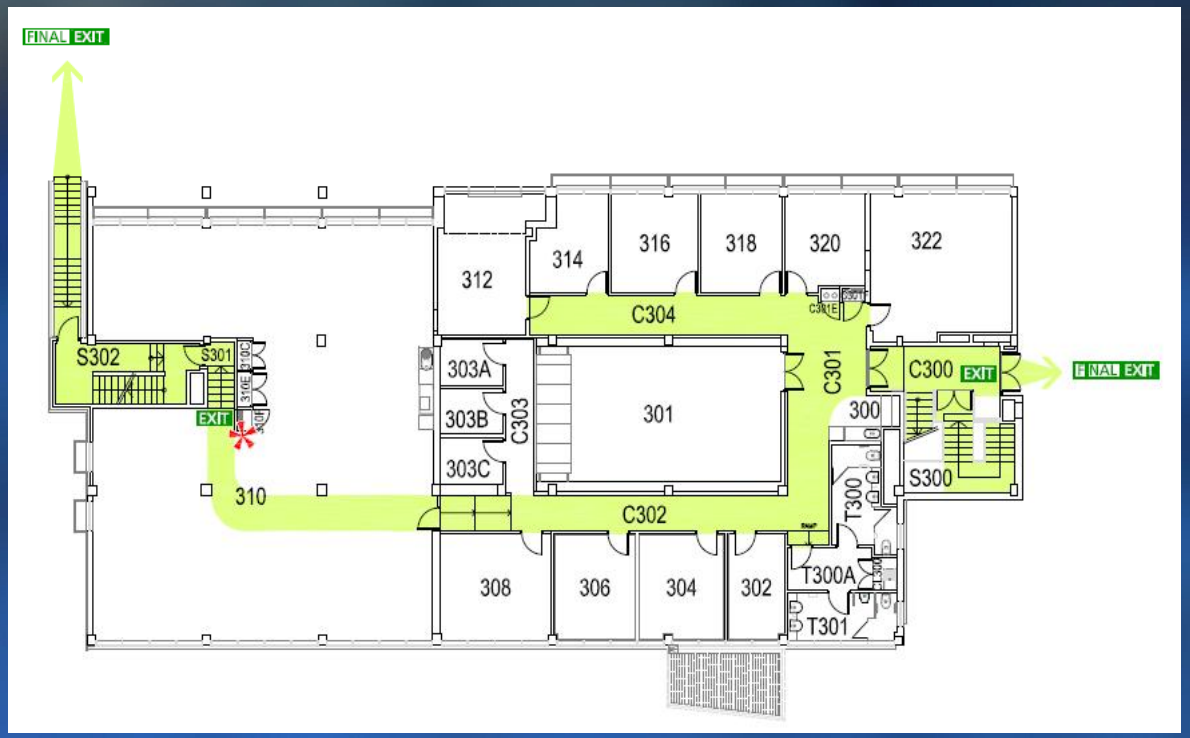
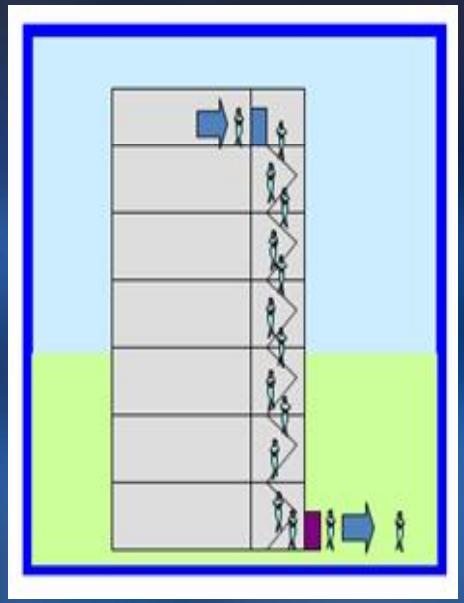
2 GIS contents

- exit access





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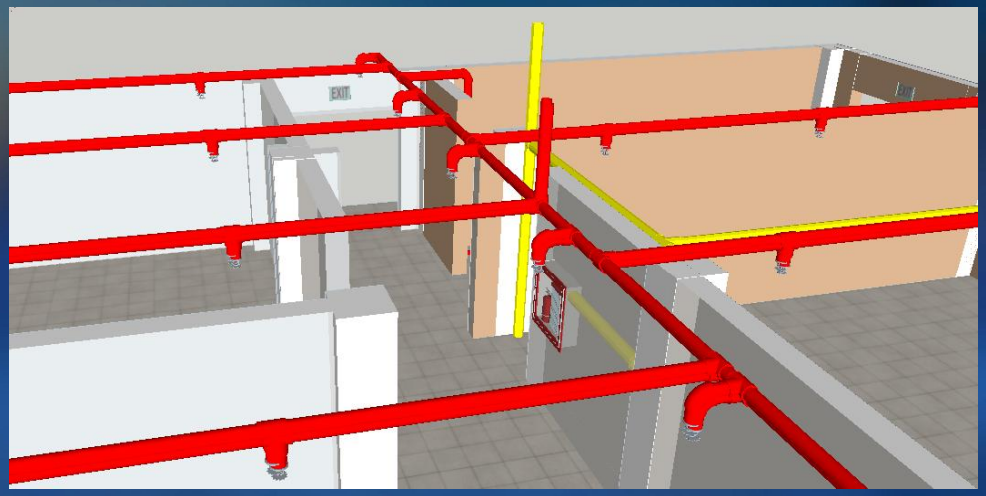
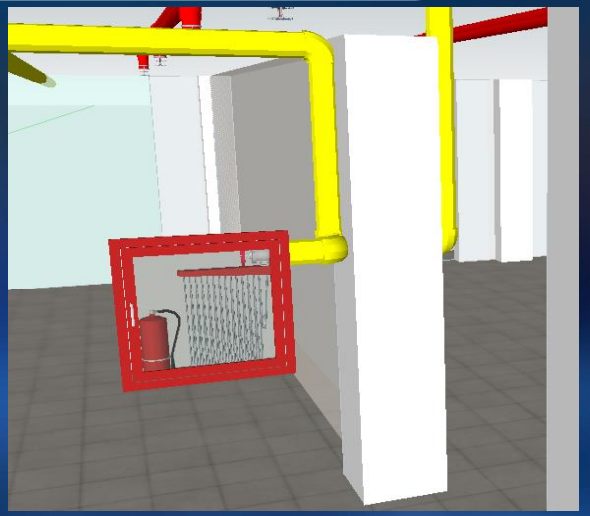
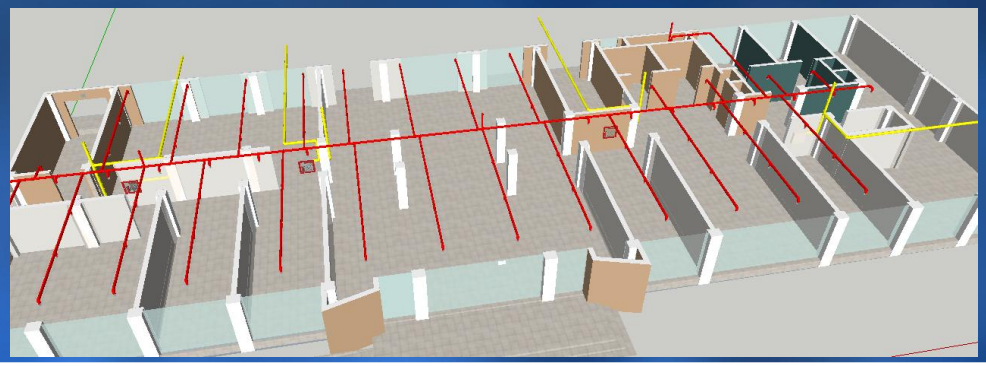
2 GIS contents

- 2.3 3d







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2 GIS contents

- 2.4 Fire control
  - Water pipe
  - Pump Position

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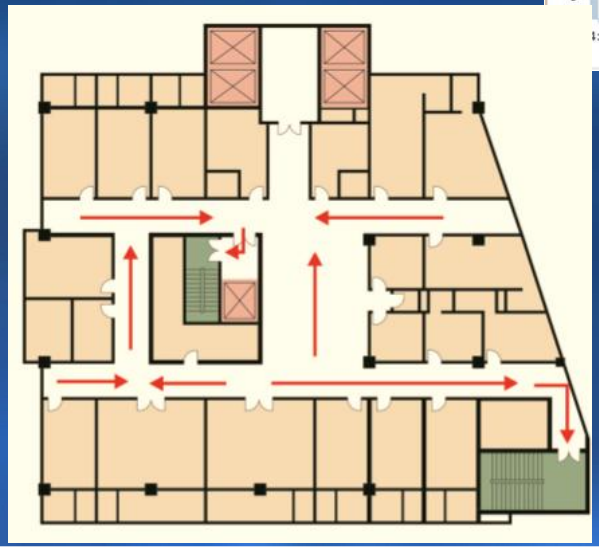
3 Overall Management

- 3.1 Person management
  - Operator on duty

- Inspection
  - Facilities check items(NFPA 10,25,etc)
  - Plan
  - Record any corrections/updates
  - Maintenance
  - Repair/Renewal

3 Overall Management

- fire suppression
  - Facilities status
    - Water Pressure
    - Tank Water Level
    - Extinguisher status
- Evacuation
  - Plan
  - Exit Route
  - Drill



3 Overall Management

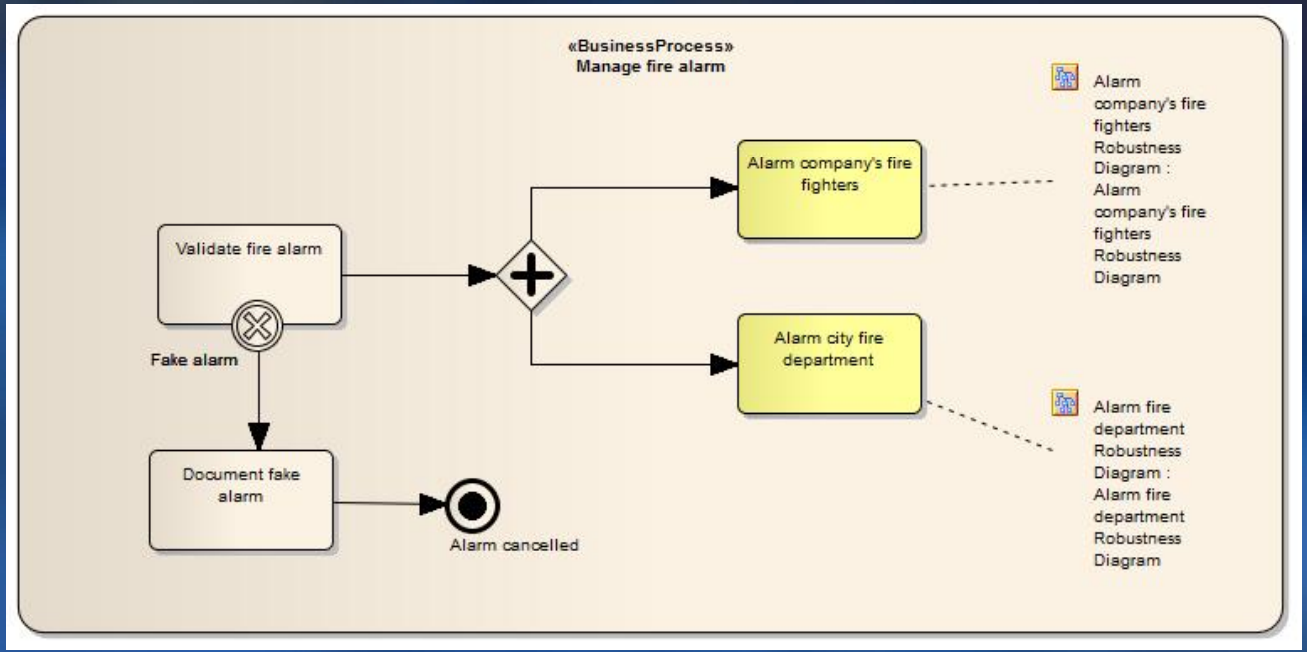
- 3.2 Facilities management
  - GIS-based management
  - Facilities statistics and search
  - Facilities reminder upon expiry

Teaching Building B——Due facility list(double click list to view details)

Address	Floor	Equipment coc	Check points	Category	Type	DeviceName	Responsible t	Due date	Overdue da
Teaching Buil	2F	11-011-000027996	Check Point 2-1	Extinguisher	Dry powder fir	Dry Powder Fi		2015-07-25	-570day
Teaching Buil	2F	11-011-000027997	Check Point 2-1	Extinguisher	Dry powder fir	Dry Powder Fi		2015-07-25	-570day
Teaching Buil	2F	11-011-000028004	Check Point 2-2	Extinguisher	Dry powder fir	Dry Powder Fi		2015-07-25	-570day
Teaching Buil	2F	11-011-000028005	Check Point 2-2	Extinguisher	Dry powder fir	Dry Powder Fi		2015-07-25	-570day
Teaching Buil	2F	11-011-000028012	Check Point 2-3	Extinguisher	Dry powder fir	Dry Powder Fi		2015-07-25	-570day
Teaching Buil	2F	11-011-000028013	Check Point 2-3	Extinguisher	Dry powder fir	Dry Powder Fi		2015-07-25	-570day

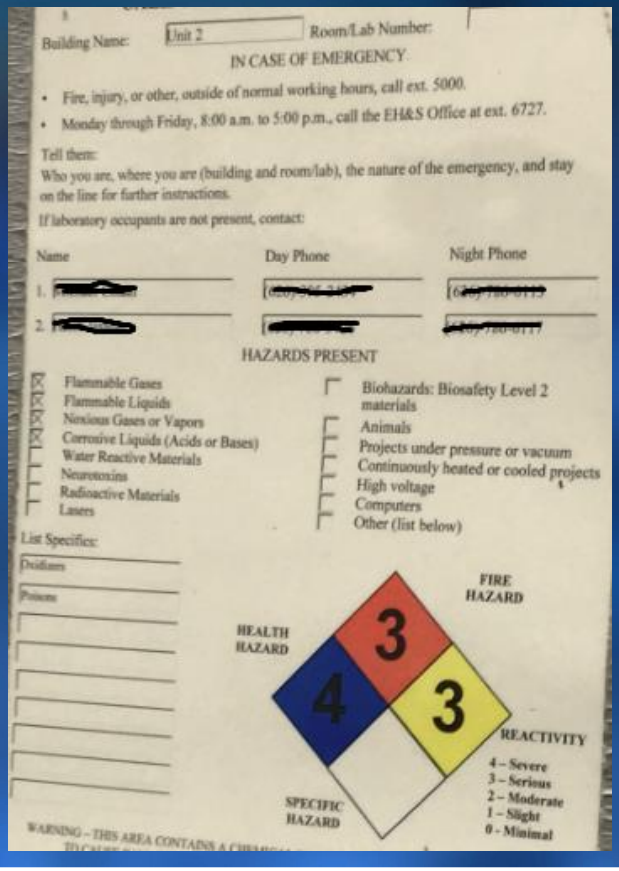
3 Overall Management

- 3.3 Event and process management
  - Alarm and its process
  - Fault
  - Repair process
  - Maintenance process



3 Overall Management

- 3.4 Risk source
  - Electric appliances
  - Inflammable
  - Radioactive source



Building Name: Unit 2 Room/Lab Number:

IN CASE OF EMERGENCY

- Fire, injury, or other, outside of normal working hours, call ext. 5000.
- Monday through Friday, 8:00 a.m. to 5:00 p.m., call the EH&S Office at ext. 6727.

Tell them:
Who you are, where you are (building and room/lab), the nature of the emergency, and stay on the line for further instructions.

If laboratory occupants are not present, contact:

	Name	Day Phone	Night Phone
1.	[redacted]	[redacted]	[redacted]
2.	[redacted]	[redacted]	[redacted]

HAZARDS PRESENT

- [x] Flammable Gases
- [x] Flammable Liquids
- [x] Noxious Gases or Vapors
- [x] Corrosive Liquids (Acids or Bases)
- [x] Water Reactive Materials
- [x] Neurotoxins
- [x] Radioactive Materials
- [x] Lasers
- [ ] Biohazards: Biosafety Level 2 materials
- [ ] Animals
- [ ] Projects under pressure or vacuum
- [ ] Continuously heated or cooled projects
- [ ] High voltage
- [ ] Computers
- [ ] Other (list below)

List Specifics:
Oxidizers
Poisons

WARNING – THIS AREA CONTAINS A CHEMICAL

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4 Benefits

Precise, Visual

All Data and GIS-based Visualize:
Fire Inspection
Fire Suppression
Fire Evacuation
Fire Drill

High-efficient

Data Process, Mobile handling,
Support Internet and IoT(Internet of things)

Free-from-Responsibility

Responsibility Chain Clear with department and role,
Based on fire safety Data
More fairly

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See something,
Say something!

THANKS

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