

# Fort Collins CLIMATE TASK FORCE



**Environmental Program Series  
and Public Open House**  
February 27, 2008



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# Did you Know\*.....?

\*2007 Fort Collins citizen survey on air quality

- 85% believe global warming is real
- 74% believe human-caused emissions are causing global warming
- 79% believe governments should do more about global warming by empowering citizens and businesses to make choices to reduce global warming
- 69% believe governments should do more by enacting legislation and regulations to reduce global warming.

# Why Should We Care?

## Many Local Benefits from GHG Reduction

### **ECONOMIC**

- Cost Savings
- Economic development opportunities
- Increased funding potential

### **ENVIRONMENTAL**

- Air quality improvement
- Resource conservation
- Reduced landfill waste

### **SOCIAL**

- All the above
- Municipal leadership

# Fort Collins GHG Goal

(Greenhouse gas)

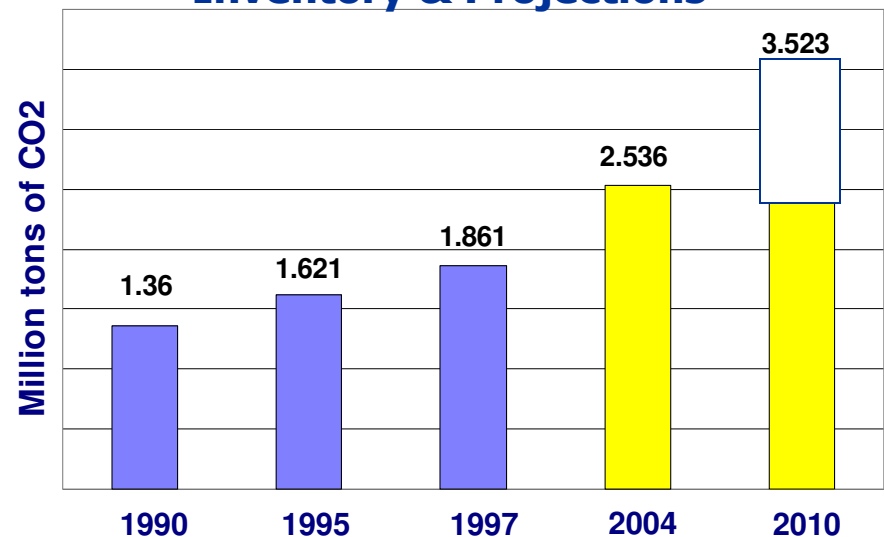
**1997**

Joined ICLEI's Cities for Climate Protection Campaign

**1999**

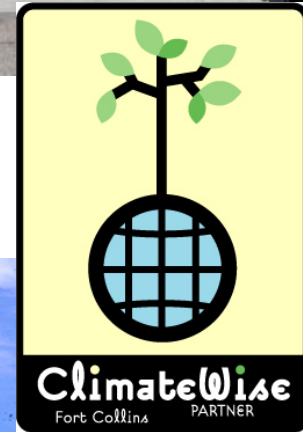
Set goal to reduce greenhouse gas emissions 30% below predicted 2010 levels

**Fort Collins GHG Emissions Inventory & Projections**



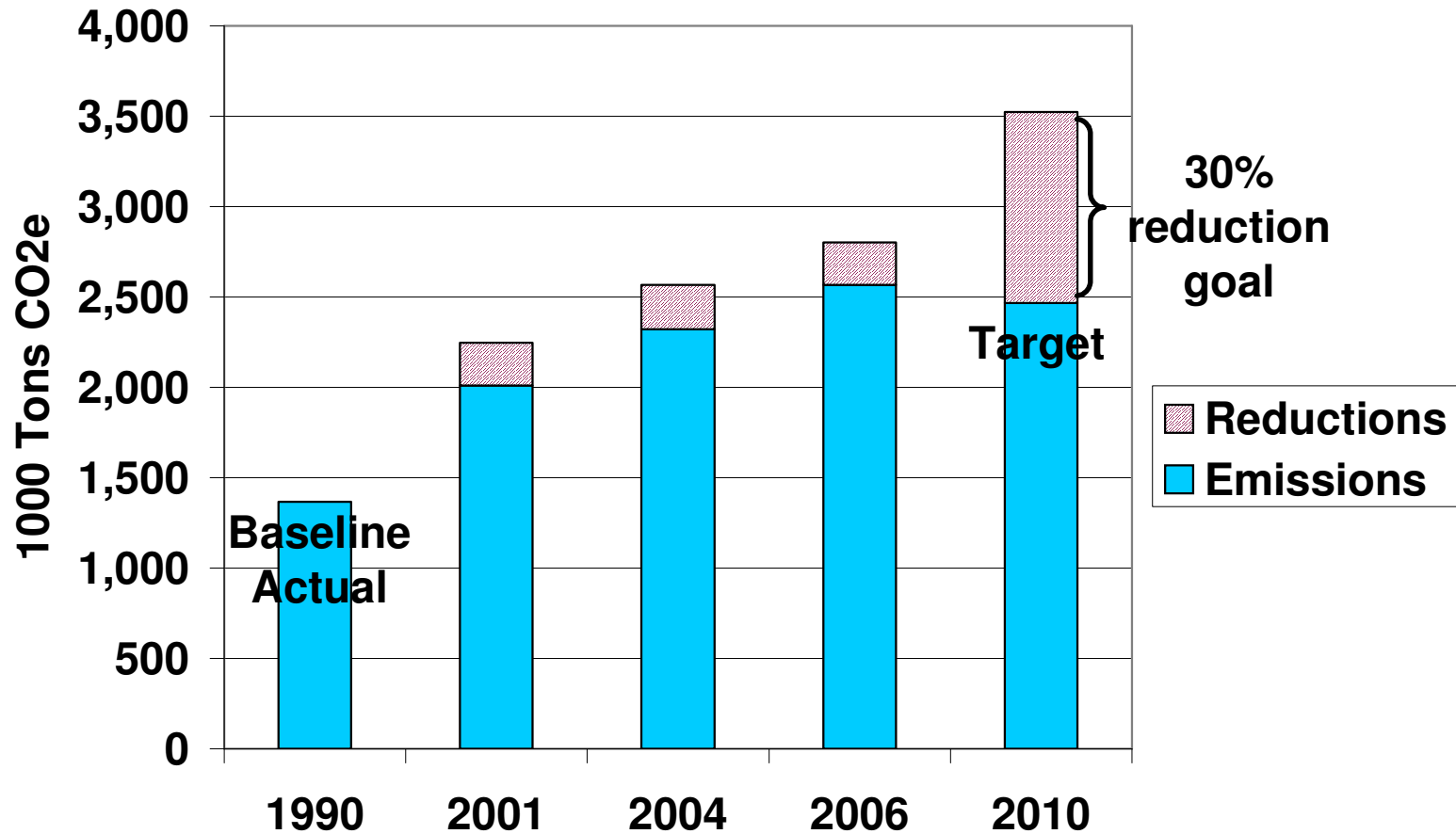
# Good Efforts To Date

- **Recycling is responsible for ~ 50% of GHG reductions**
- **Climate Wise program established in 2000 and has grown to over 80 partners**
- **Fort Collins was the first city in Colorado to set renewable energy goals and offer wind energy subscriptions.**



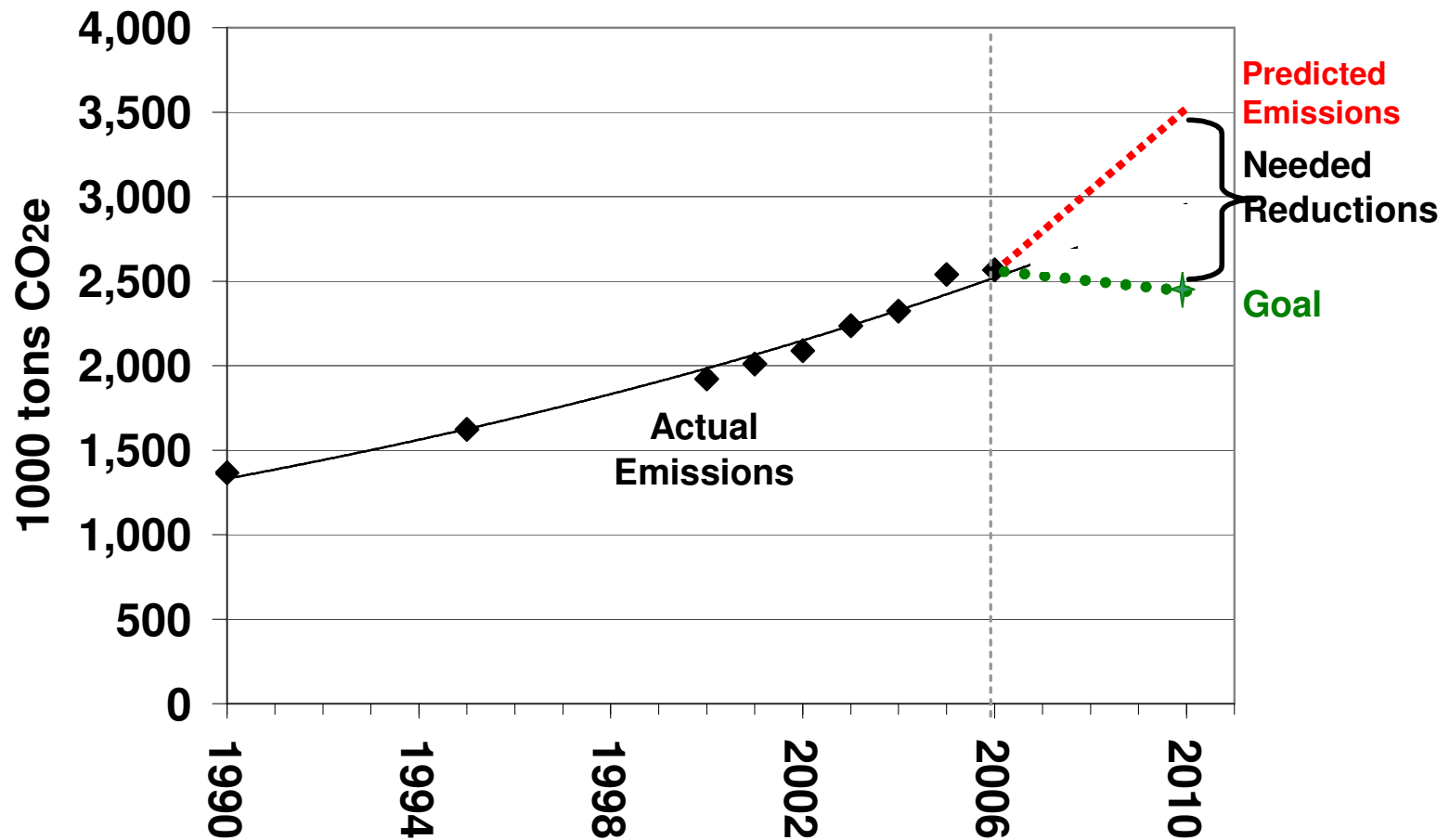
# Biennial Progress Reports

## Fort Collins Greenhouse Gas Emissions and Reductions



# Not on Track to Meet Goal

## Fort Collins Greenhouse Gas Emissions





# Background Summary

- Fort Collins has made good progress but is not on track to meet the 2010 reduction goal.
- Some “low-hanging fruit” is gone; there will be costs as well as benefits associated with achieving significant emission reductions.
- There is a cost of inaction, as well.
- We are not alone. Momentum with other cities, state, and regional efforts can help.
- Climate protection activities can support economic development.

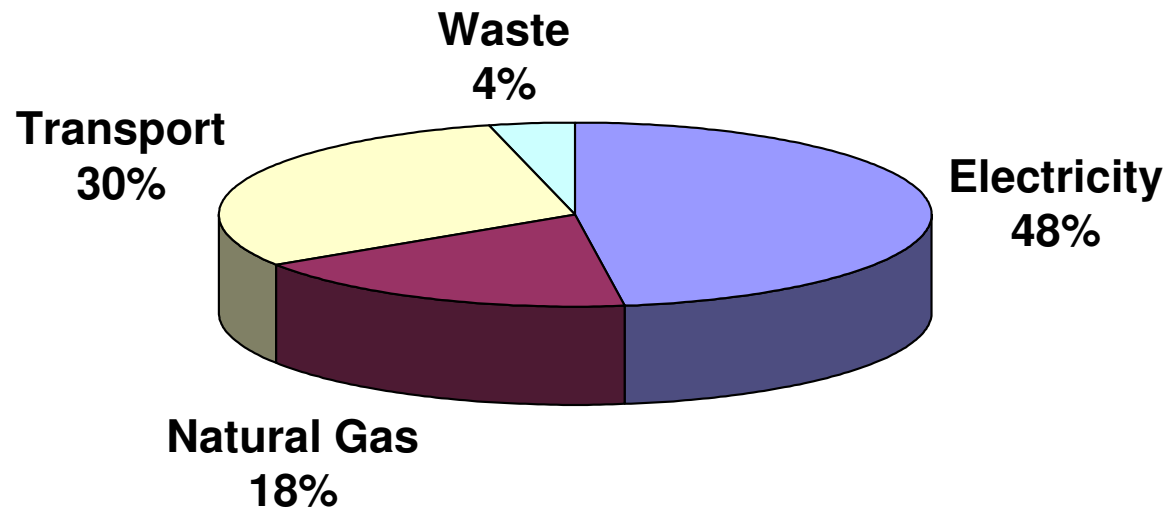
# City Council Resolution (Mar '07)

City Manager shall appoint a task force of citizens, boards & commissions, & City staff to:

- **develop an updated plan that describes the steps Fort Collins could take to meet the 2010 target**
- **make recommendations on how the City should develop a future direction for climate protection after 2010.**

# 2006 Emissions Inventory by Energy Source

Fort Collins  
2006 Greenhouse Gas Emissions  
2.57 Million Tons



# Development of Measures

- **Quantified Existing Measures**
- **170 new ideas from public, Boards, experts, etc.**
- **Collapsed to 70 unique ideas**
- **Qualitative analysis of benefit and cost**
- **Task Force select top ideas**
  - Selected for Short-term benefit
  - Selected for local control
- **Quantitative Analysis of New Measures**

# Short-Term Provisional Package



## Categories

- Existing
- Community Involvement
- Local Organizations Lead by Example
- Increase Recycling
- Save Energy
- Clean our Energy Sources
- Improve Transportation Efficiency

## Existing Measures

2010 Tons CO<sub>2</sub>e

Existing/Pending Measures

407,000

- Business and Residential Recycling
- Renewable Energy Programs
- Climate Wise
- Energy Conservation Programs
- Carbon Sequestration by Trees
- Electricity Distribution Improvements
- 2004 Code for Energy Efficiency in Homes
- Natural Gas Conservation Programs
- Methane Capture and Use at Wastewater Site
- Poudre School District Greenhouse Gas Reduction
- Using Landfill Methane to Generate Power (pending)
- Update Commercial Energy Efficiency Code (pending)
- FortZED (pending)

# Cost Effectiveness

**New Measures, collectively: \$10/ton**

- Assumes implementation for 3 years 2008-2010 (in most cases)
- Sums greenhouse gas benefit accrued from 2008 through 2020 in **tons CO<sub>2</sub>e**
- Calculates **net** costs from 2008 – 2020 in **\$**

**Cost-Effectiveness= \$/ton CO<sub>2</sub>e**

## Community Involvement

2010 Tons CO<sub>2</sub>e

Local Voluntary Carbon Offset Program 58,000

Communitywide Climate Challenge 9,000



Local Orgs lead by Example 2010 Tons CO2e

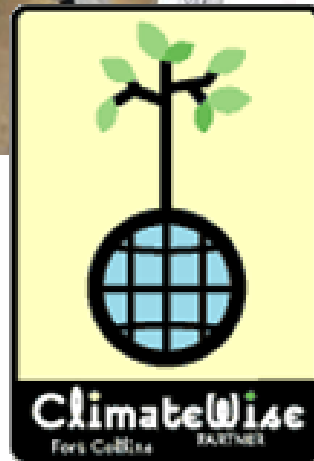
Expand Climate Wise 130,000

Gov. Orgs Establish GHG Goals 22,000



Colorado State University

Larimer County



## INCREASE RECYCLING

2010 Tons CO<sub>2</sub>e

### **Push for 50% Waste Diversion Goal 226,000**

including strategies like:

- Res Weekly Single Stream Recy + containers
- Residential enhanced PAYT
- Commercial recycling fee embedded in rates
- Ban yard waste from trash collection and offer yard waste drop off and weekly collection
- Increased Education
- Construction & Demolition (C&D) drop-off
- C&D preference for City contracts



## SAVE ENERGY

2010 Tons CO<sub>2</sub>e

Residential Electric Rate Structure	17,000
Smart Meter Program	11,000
Low Cost Home Energy Assessments	7,000
Time of Sale Energy Conservation	17,000
Increased Energy Efficiency Programs	13,000
Natural Gas Energy Conservation	6,000



## CLEAN ENERGY

2010 Tons CO<sub>2</sub>e

15% Renewable Energy by 2010 74,000

Incentives for Local Renewable Energy 2,000



## INCREASE TRANSPORTATION EFFICIENCY

2010 Tons  
CO2

Reduce Vehicle Miles of Travel **13,000**

- Walking and Bicycling Programs
- Employer-based Programs
- School Transportation Mgmt Programs
- Transit Enhancements

Incentives for Low Emission Vehicles **3,000**

Modern Roundabouts **1,000**



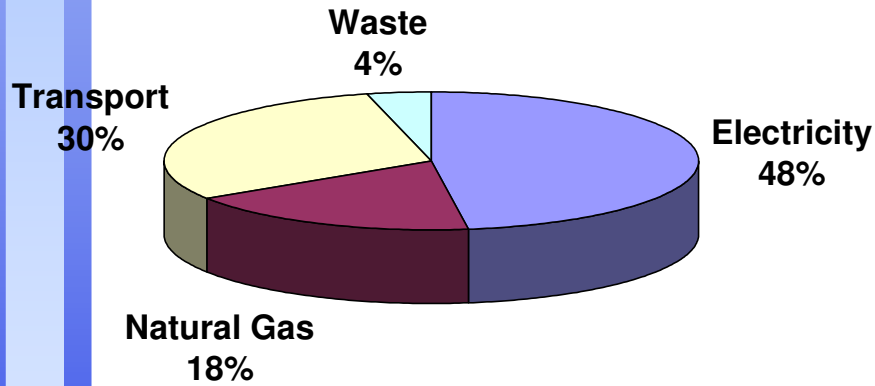


# Multiple Co-Benefits

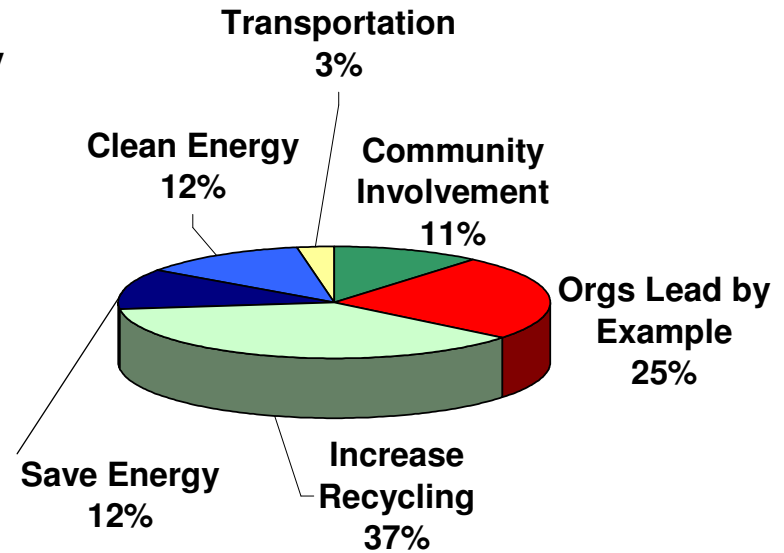
- Air pollution reduction, especially ozone
- Reduced pressure on landfill
- Reduced reliance on fossil fuel
- Reduced reliance on foreign oil
- Cost savings for citizens, business, government

# Emissions Sources vs. Reduction Strategies

Fort Collins  
2006 Greenhouse Gas Emissions  
2.57 Million Tons



Emissions Reductions from New Measures  
482,000 Tons CO<sub>2</sub>e



# Next Steps

## Council

- Provide direction to Task Force on the goal
- Future Council Work Session (April 22?)
- Council Action (May 20?)

## Task Force

- Gather input
- Refine Short-term package
- Develop recommendation on future direction for climate protection
- Finalize recommendation
- Seek additional input from Boards, Public

# What's Next Tonight?

## 4 Stations

for discussion, Q&A, share your comments

**Mixed** (Community Involvement &  
Local Organizations Lead by Example)

**Waste Reduction / Recycling**

**Energy**

**Transportation**

# Your Input?

**Submit written comments tonight**  
**Record comments on flip charts**  
**On-line Web comment form**

**<http://fcgov.com/ctf>**

All input will be summarized and shared with the Task Force and posted to Web.

Watch **<http://fcgov.com/ctf>** for Task Force Final Recommendations

# 2008 Environmental Program Series

## **'Greening' Your Home: Reducing Your Environmental Footprint**

*January 23*

Make your household more efficient and reduce your environmental footprint.

## **Improving Comfort, Safety and Energy Efficiency in Existing Homes**

*January 30*

Learn the root causes for cold rooms, high utility bills, AC that does not cool, icy windows and where to turn for solutions.

## **Transfort Update**

*February 13*

Learn the benefits of Fort Collins' fixed route transportation service from a panel of local employers and passengers.

## **Green Economy**

*February 20*

A panel of specialists will discuss the City's Clean Energy Cluster, Climate Wise program and Local Living Economy project.

## **Tackling Climate Change in Fort Collins**

*February 27*

Dr. Chuck Kutscher, National Renewable Energy Laboratory, will discuss Climate Task Force recommendations.

## **Fort Collins in Motion**

*March 26*

Cut your carbon emissions and improve your health. Explore how innovative transportation projects strengthen economic development.

## **Resources for Bicycling in Fort Collins**

*April 2*

Make bicycling your method of transportation. Learn about local bicycling clubs, commuter bike routes, recreational rides, safety tips and local programs and events.

## **The Nature of the Poudre River**

*April 16*

Virtually explore the many places that can be enjoyed along the Cache la Poudre river. Follow-up field trip, April 19, 9 a.m.–1 p.m.

## **Home Composting Seminar**

*April 30*

Attend this hands-on seminar on home composting. Learn about the first Compost Festival at the Gardens on Spring Creek, Saturday, May 3.

## **Xeriscape by Design**

*May 7*

Loretta Mannix, from The Horticulture Consultant, will share before and after images of transformed Front Range landscapes.

## **Plant Select®: Varieties for Colorado**

*May 21*

Jim Klett, CSU horticulture professor, will present this year's plants that thrive in our variable winters and hot summers.

## **Watering with Conservation in Mind**

*June 4*

Learn about weather-based controllers, rain shut off devices and MP rotator heads, and how to inspect your system to identify repairs and upgrades.

Please help us make this a zero-waste event series.

Sponsored by: Fort Collins Utilities,  
Natural Resources, Transportation and City Manager's Office.



# 2008 Environmental Program Series

## Fort Collins in Motion

Wednesday, Mar. 26 from 7–9 p.m.  
Fort Collins Senior Center, 1200 Raintree Dr.



Please help us make this a zero-waste event series.

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