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A BRIEF DETAILS OF FOOD ADULTERATION IN INDIA

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Abstract

The socio-legal study further unveils the challenges faced in the implementation of these laws. The lack of adequate infrastructure, resource constraints, and bureaucratic hurdles often impede the smooth execution of regulatory measures. Additionally, the judicial process can be protracted, resulting in delayed justice and a weakened deterrent effect. Addressing these systemic issues requires a concerted effort from both legal and social perspectives. Moreover, the socio-legal study sheds light on the evolving nature of food adulteration in the digital age. The increased complexity of food supply chains, rapid technological advancements, and globalization necessitate continuous adaptations of legal frameworks to keep pace with emerging challenges. The study underscores the need for dynamic and responsive legislation that can effectively combat new forms of adulteration and protect the interests of consumers. The socio-legal study of the Indian law concerning food adulteration reveals a multifaceted landscape. While the legal frameworks provide a foundation for addressing this issue, their effectiveness is contingent upon a holistic approach that combines legal enforcement with social awareness and collaboration. Recognizing the socio-economic implications and adapting to the evolving nature of adulteration is crucial for creating a resilient legal framework that safeguards public health and promotes a culture of food safety in India. This paper puts an idea about how food laws were modernized in India and it also provides an overview.

Keywords: Food Adulteration, socio-legal

Introduction

Food is indispensable for humans for their growth and survival. However, the food which is being consumed nowadays is adulterated. Food adulteration is the act of intentionally debasing the quality of food offered for sale either by the admixture or substitution of inferior substances or by the removal of some valuable ingredient. In 2020 adulteration of food increased due to panic demand of the consumers, as lockdown was imposed people started buying foods in large quantity which resulted into food being adulterated. Food adulteration leads to various health problems, as it is very toxic for the human body. Food adulteration leads to various diseases such as liver disorder, diarrhea, food poising, cancer etc. Lack of nutrition is also one of the impacts of food adulteration as the food is being mixed with substances, for example, water is mixed with milk, artificial color and sugar is being added to fruits. As the impurity in food has increased it has affected the growth of people and resulted in various diseases, even the food of infants is being adulterated which can impact their growth and development. Adulteration not only affects the economy butalso the health of millions, even with the enactment of various acts food adulteration is still a big issue in India. In these past few years India has modernized its laws regarding food, as earlier there were 8 different acts for different types of food but by 2006. The Food Safety and Standards Act, 2006 was introduced to consolidate the laws relating to food and to establish the Food Safety and Standards Authority of India.

An adulteration is a common problem not only found in existing local net area but it is mostly found the world. Food provides us with important nutrition and plays a vital role in maintaining proper health which also helps in

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prevention and cure of diseases. The world is facing a potential crisis in terms of food security, due to lack of production and supply of safe and nutritional food. Adulteration seems to be getting deadlier and serious problem present in over society that should be eradicated . Food adulteration is a social evil and major problem of the every society. Adulteration in food products in India has been rampant especially in the products that are sold in Urban-Slum areas, semi-urban as well rural areas where the innocent consumers are cheated due to sub-standards/poor quality of food products even after paying the reasonable prevailing retail prices. India is the country of farming. Food and water are not only the elixir of life but these valuable products are worshipped as god in India. Food law has traditionally consisted of legal definitions of unsafe food, and the prescription of enforcement tools for removing unsafe food from commerce and punishing responsible parties after the fact. It has generally not provided food control agencies with a clear mandate and authority to prevent food safety problems. The result has been food safety programmes that are reactive and enforcement-oriented rather than preventive and holistic in their approach to reducing the risk of food borne illness. To the extent possible, modern food laws not only contain the necessary legal powers and prescriptions to ensure food safety, but also allow the competent food authority or authorities to build preventive approaches into the system. Food laws play an important role in the quality control strategy. A number of laws have been enacted in the country control for the purpose of laying down quality standards. There are various other supportive acts made for healthy businessin food line and consumer welfare and stability of law and order regarding supply of food, quality, and quantity. There are two kind of food laws and orders in our country first one is for monitoring safety standards mandatory, compulsory in nature and second quality standards mostly. voluntary. Anyway overall aim of food laws is to maintain food quality and quantity keeping all pros and cons of welfare and harm to consumer first and which may not be interfering in fair trade or food procedure business .it is constituted duty of every Government to care about health and living status of the public and at the same time to allow food business to grow and develop according to increasing demands.

Multiplicity of food laws, standard setting and enforcement agencies pervades different sectors of food, which creates confusion in the minds of consumers, traders, manufacturers and investors. Detailed provision under various laws regarding admissibility and levels of food additives, contaminants, food colors preservatives, etc. and other related requirements have varied standard under these laws. The standards are rigid and non-responsive to scientific advancement and modernization. In view of multiplicity of laws, their enforcement and standards setting as well as various Implementing agencies are detrimental to the growth of the nascent food processing industry and is not conducive to effective fixation of food standards and their enforcement.

Food safety is of primary concern to food agricultural organization (FAO) and world health organization (WHO). Food safety providing assurance that food will not cause harm to the consumer when it is prepared and /or eaten according to its intended use (FAO, 1996). Food safety is as an area requiring priority attention to safeguard the economic interests of small holder farmers and the poor .there is a glaring lack of relevance of private sector, agricultural research in developing countries to the genuine needs of the poor. Food safety is a function of the nature of technology used to produce and process food .it can be manipulated through genetic improvement, agronomic practices and postproduction storage and processing.

Government of India, held extensive deliberations and approved the proposed integrated food laws with certain modifications. the integrated food laws has been named as "food safety and standards bill 2005 and this bill enacted by parliament and known as food safety and standards Act 2006, Rules 2011and Regulations 2011". An act to consolidate the laws relating to food and to establish the food safety and standards authority of India for laying down science -based standards for articles of food and regulate their manufacture ,storage, distribution, sale and import..

Objectives of this research work is to impart knowledge, Protecting public health by reducing the risk of food borne illness, Protecting consumers from unsanitary, unwholesome, mislabelled or adulterated food, Contributing to economic development by maintaining consumer confidence in the food system and providing a sound regulatory foundation for domestic and international trade in food. various acts, rules, regulations, standards, orders

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and laws related to food articles governing their manufacture, import, export, storage, distribution and saleand understand the food regulatory mechanism in our country and to study about the knowledge and awareness of common food adulterants and able to understand through this study among the consumers ,the manufacturers, retailers and wholesalers to take keen interest in the production and supply of hygienic and nutritious food for the well being of society.

Food Adulteration

The intricate web of public health, law enforcement, and social welfare is entangled in the multi-faceted sociolegal conundrum that is food adulteration in India. There are serious concerns regarding the impact on millions of people's physical health and the effectiveness of current legislative frameworks in addressing this complex issue. To put it simply, food adulteration is the practice of tampering with food goods by adding ingredients that lower their quality or even cause harm. The practice calls for a detailed examination of its socio-legal aspects because of the far-reaching effects it causes, which are driven by profit interests and not strictly enforced.

The serious consequences for public health are an important part of the food fraud dilemma. Many common foods include adulterants, which can be anything from dangerous chemicals to low-quality ingredients, and can cause serious health problems for people who eat them. Many health problems, from acute infections to long-term conditions, are caused by the widespread usage of adulterants, which are frequently overlooked by unaware customers. For instance, gastrointestinal illnesses can be caused by contaminants in dairy products, while cardiovascular difficulties can be caused by edible oils that have been adulterated with cheaper and harmful alternatives. Therefore, it is imperative that future socio-legal research on food fraud investigate the complex ways in which these health consequences interact with preexisting legal systems.

As befits a problem of this magnitude, the legal framework in India addressing food fraud is extensive and complex. When it comes to laws that regulate the quality and safety of food, the main one is the Food Safety and Standards Act of 2006. A major socio-legal hurdle, however, is that the effectiveness of this law depends on its execution. Effective execution of these laws is hindered by enforcement procedures that are typically plagued by corruption, poor resources, and bureaucratic red tape. Another persistent problem for regulatory agencies and legislators is the wide variety of food products and the ever-changing methods used to falsify their authenticity. In order to conduct a thorough socio-legal analysis of food adulteration, it is necessary to investigate the functions of several relevant parties, such as regulatory bodies, law enforcement, and the courts. Enforcing compliance with food safety standards is an ongoing struggle for the regulatory authorities, who must contend with the everchanging strategies used by dishonest actors in the food business. Meanwhile, law enforcement authorities face the double whammy of dealing with criminals and fixing the underlying systems that allow adulteration to flourish. A number of seminal decisions have been handed down by the judiciary that have significantly impacted the sociolegal climate around the topic of food adulteration by interpreting and strengthening the relevant legislative requirements.

One important component in the continuation of food fraud is consumer knowledge—or lack thereof. Whether it's owing to a lack of knowledge or false information, many people still don't know the dangers of eating food that has been contaminated. In addition to making health risks worse, people's lack of knowledge about the laws' intended beneficiaries unwittingly helps to perpetuate adulteration techniques, leading to a dichotomy between law and society. Consequently, in order to provide consumers with the knowledge they need, a thorough sociolegal study has to examine how well awareness campaigns, educational initiatives, and the media provide accurate information.

This complex web is further complicated by the socioeconomic aspects of food fraud. Those most at risk from health problems caused by adulteration are frequently members of marginalized communities. Existing health inequities are worsened when low-income households are more likely to be exposed to contaminated commodities because they cannot purchase premium-quality food products. The unequal impact of food fraud on disadvantaged populations is a legal consequence of these socioeconomic inequalities. Concerns regarding the state's duty to

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ensure the health and safety of its inhabitants and the fairness of law enforcement are prompted by these matters of moral and ethical significance.

An essential aspect of the socio-legal discussion surrounding food adulteration is the role of corporate responsibility and ethical concerns within the food business. Companies may resort to misleading techniques or skimp on ingredient quality when their primary motivation is to maximize profits. Ethical considerations in these business operations should be the focus of a socio-legal investigation of corporate responsibility and the effectiveness of current regulatory frameworks in promoting moral behavior in the food service sector. In this age of globalization, when MNCs operate across borders, this viewpoint becomes all the more important, as a coordinated strategy to fight adulteration is required.

Any thorough socio-legal examination of the issue of food adulteration must take into account the work of non-governmental organizations (NGOs). Non-governmental organizations (NGOs) frequently play the role of watchdogs, bolstering the work of regulatory agencies through public education, independent investigations, and policy advocacy. When non-governmental organizations (NGOs) and for-profit businesses work together, they form a powerful lobbying bloc that can prompt changes in legislation and encourage heightened social awareness. This research has to look at the difficulties these groups encounter, how their actions have affected things, and where more collaboration between the law and civil society may be found.

An all-encompassing strategy that takes into account the complex interaction of public health, legal systems, and social dynamics is necessary for the socio-legal investigation of food fraud in India. From individual health concerns to systemic problems within regulatory and legal frameworks, this complex issue necessitates a multifaceted approach. An examination of these nuances can lead to better policy suggestions, changes in legislation, and public education campaigns, all of which can help create a more equitable and healthy society.

Adulteration was the practice of deceitfully combining two or more substances for the aim of boosting sales or profit. The term "adulteration" is used to indicate the degradation of food, medicine, and other products when they are mixed with low-quality and cheap ingredients. In order to produce a substance impure, it is essential to either add impurities to it or remove a necessary component, as stated in the Oxford Dictionary. It means that the food's quality dropped because of things like unnecessary ingredients. To reduce the food's quality and enhance its quantity, chemists add adulterants. Putting an adulterant into food products is called food adulteration. It is possible to intentionally or accidentally add adulterant. But in most cases, the adulterant inclusion is deliberate. Increasing profits at the cost of public or consumer health is the primary goal of purposefully adding these adulterants.

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Food Stuffs and their Adulterants

Spices, dairy products, edible oils, beverages, candies, rice and cereal products (such as maida, sooji, and flour), and processed meals are among the most frequently contaminated foods available. Lightly colored chocolates and delicately green teas and pickles are usually dyed with mineral toxins (which can only be detected by chemical examination). Many hotels' white bread contains adulterants such rice, potatoes, corn, beans, and rye, which are less expensive and healthier alternatives. The removal of bran leaves the grain looking white because it removes its most valuable component, the azotized or flesh-forming part. In order to make the flour even whiter, the miller typically extracts the grain's more nutritious component from it. Bakers often choose this flour. Lime sulphate and carbonate, silicate of magnesia in soapstone, white clay, carbonate of magnesia, bone dust, and bone ashes are among the materials that not only decrease the item's value directly, but also cause the bread to absorb more water, making it heavier than flour.

Willow, re-dried leaves, iron filings, and other naturally occurring substances can be found in tea. The primary contaminants in raw sugar, which is mixed with lower-quality types of the same commodity, include cane fiber, inadvertent soil, and flour. Mustard is always included with the flour or argemone seed that makes up half to three quarters of the normally given item. It is common practice to add turmeric for color and cayenne for heat after this whole-sale blending.

Pepper is often tainted with flour or starch, gypsum, or soil of any type to increase its size and weight. The earthy ones can be identified using the polari scope; when they burn, they produce ash and a starchy residue that can be observed under a microscope. It is simple to distinguish the pepper particles itself due to the seed's hard, angular cells and its unique outer coat of stellate cells.

Food Safety and Standards Authority of India

The Food Safety and Standards Authority of India(FSSAI) has been established under Food Safety and Standards Act, 2006 which consolidates various Acts and Orders that have hitherto regulate food related issues in various Ministries and Departments. FSSAI has been created for laying down science based standards for articles of food and to regulate their manufacture, storage, distribution, sale and import to ensure availability of safe and wholesome food for human consumption. The main functions of FSSAI are:-

- Framing of regulations to lay down the standards and guidelines in relation to articles of food and specifying appropriate system of enforcing various standards.
- Laying down guidelines and procedures for accreditation of laboratories and notification of the accredited laboratories.
- Contribute to the development of international technical standards for food, sanitary and phyto-sanitary standards.
- To provide scientific advice and technical support to Central Government and State Governments in the
 matters of framing the policy and rules in areas which have a direct or indirect bearing of food safety and
 nutrition

Sources of Food Adulteration

Food safety is an aim to provide nutritious and safe to the consumers. The prime objective of food is not to sufficed to the menace created by the food adulteration. The food can be incidentally adulterated by various sources like pesticide residue, metallic impurities, polluted water, fertilizers, unhygienic conditions, etc. Whereas, in intentional adulteration the various sources could be the unapproved additives/ chemicals, the goods may contain filth and foreign matter, preservatives, or the quantity of preservative is more than the prescribed limit, or it contains any substitute or inferior items like water in milk.

FSSAI has also campaigned for consumer awareness regarding food adulteration and has given resources like DART book which will help the consumers to detect food adulteration at home. The implementation of FSS Act (2006), there has been nationwide campaigning against food adulteration and penalizations have been declared

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who violate the standards. It is trying its level best to identify the roots of this menace. It must be made sure that the sources of food adulterants should also be identified and penalized as only detection of food adulteration is one side of the coin.

According to a survey conducted, adulteration were detected in milk to the tune of 70% with water, turmeric powder 43% with chalk powder, red chili powder-100% with artificial color, sugar 37% with chalk powder etc. The adulteration in food is done either for financial gain or it is done due to carelessness and lack of proper hygienic condition of processing, storing, transporting, and marketing. Another motive for adulteration of goods and services is outsourcing to offshore producers. Outsourcing became possible because comparatively labour is cheap in some countries and this is also what makes product faking easy since the cost of producing is far less compared to the super normal profits being made.

Menace to Consumers

Food is the basic necessity of each and every individual for the survival. 'Admixture' and 'substitution' are some of the synonyms which helps to define the word adulteration. Adulteration of food is defined as "the addition or subtraction of any substance to or from food so that the natural composition and quality of food substance is affected". Adulteration can be deliberate by either removing substances to food or varying the existing natural properties of food intentionally. Adulteration can also be unintentional due to ignorance, carelessness or lack of amenities for maintaining food quality.

"Consumer" means persons and families purchasing and receiving food in order to meet their personal needs. A consumer is a person who purchases a product or avails any services for a consideration, for the personal use or to earn his livelihood by means of self employment.

Adulterated food can have a range of harmful effects on health. It can lead not only to the toxicity in the body but can also lead the body to paralysis or may eventually cause death. Some of the adulterants are very highly toxic for the body which may lead to heart failure, kidney disorder, liver, disorder and many more body diseases. Therefore, it is very important to detect these adulterants. Food adulteration is a major threat to a consumer, which is faced regularly. Therefore, detection of adulterants is an essential requirement for ensuring the safetyof foods consumed by people. Nowadays, the more expensive the food product, a greater incentive is to be had for evolving suitable strategies to imitate the unique product with reasonably-priced alternatives. Various measures have been taken to protect the consumers from the intake of adulterated food and also, to bring awareness among the consumer associations and individual consumer about the adulteration of food and to know the legal provisions to protect the rights of the consumer. The protection of consumers Right is not solely the responsibility of the state, it is also the responsibility of each consumers. The consumers must take care by themselves with the help of recognised consumer association and authorities..

According to the FSSAI Annual Report (2020-21), 28.56 percent of food samples assessed by FSSAI were found to be adulterated or misbranded. 1,06,459 food samples were analyzed by FSAAI's Public labs in the year 2020-21.

As per the report, the highest food adulteration was found in Uttar Pradesh, Jharkhand and Tamil Nadu. The report clearly indicates a consistent rise in food adulteration in the country. The proportion of the adulterated food or misbranded food sold in India has almost raised double in the last 8 years. In the year 2012-13, fifteen percent of the food samples tested were found non-confirming to the prescribed standards. Over the years, this has gradually raised and now it stands at 28.56 percent, as per the latest report. The penalties imposed for violations has risen compared to the year 2017-18. The penalties imposed for violations in 2020-21 stood at rupees 32.57 crore to rupees 26.35 crore in the year 2017-18. The lowest food adulteration was found in Arunachal Pradesh, Goa and Uttarakhand. As per the FSSAI annual report 2020-21

State with highest adulteration	%	State with lowest adulteration	%
(2020-21)		(2020-21)	
1.UttarPradesh	52.32%	1.ArunachalPradesh	3.78%

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2.TamilNadu	45.39%	2. Goa	5.67%
3.Jharkhand	41.68%	3. Uttarakhand	4.63%

LEGISLATION GOVERNING THE POTRAYED CONCERN

The Indian food industry has emerged as a high profit sector in the recent times. The food industry is one of the largest industries in India and is ranked fifth in terms of production, consumption, export and expected growth. The basic food laws are intended to assure consumers that the food items are pure, safe to eat, and produced under sanitary conditions. Generally, food laws prohibit distribution of products that are adulterated, or have labels that are false or misleading in any context. Food laws are related to the production, manufacturing and selling of a food item. It begins from the production and continues till the labeling or packaging of a food product. To meet country's sanitary and phyto-sanitary requirements, food must comply with the local laws and regulations to gain market access. These laws ensure the safety and suitability of food products for consumers. The Indian food industry is controlled by several laws in India, that govern the aspects of sanitation, licensing and other authorizations which are necessary to run a food industry.

The Indian Parliament has passed the Food Safety Standards Act, 2006 (FSSA) that overrides all other food related laws such as:-

The Prevention of Food Adulteration Act, 1954

- The Fruit Products Order, 1955
- The Meat Food Products Order, 1973
- The Vegetable Oil Products (Control) Order, 1947
- The Edible Oils Packaging (Regulation) Order, 1998
- The Solvent Extracted Oil, De oiled Meal, and Edible Flour (Control) Order, 1967
- The Milk and Milk Products Order, 1992

The adulteration of food is a subject in the concurrent list of the Indian constitution. There were various state laws to regulate food safety prior to 1954, but due to variance in the provisions of different states it posed problems in trade between different provinces. Thus, this was the reason; the need for Central legislation was felt. So, The Prevention of Food Adulteration Act, 1954 was enacted to solve the problems which transpire due to the different state laws. This Act had been in place for over fifty years, and there was a need for a change due to varied reasons which includes several defects and the changing requirements of our food industry. Along, with this Act several other orders were also repealed by The Food Safety and Standards Act, 2006 such as The Milk and Milk Products Order, 1992, The Meat Food Products Order, 1973, The Food Products Order, 1955, etc.

The Prevention of Food Adulteration Act, 1954, was promulgated by Parliament in the year 1954 to make provision for the prevention of adulteration of food. This Act covers food standards, general procedures for sampling, analysis of food, powers of authorized officers, nature of penalties and other parameters related food. This Act, also deals with the parameters relating to food additives, coloring, matters, preservative, prohibition and regulations of sales, packaging and labeling, etc. The provisions of PFA Act and rules are implemented by State Government and local bodies as provided in the rules. This Act clearly defines "What is food adulteration and what is the punishment given to person/manufacturer involved in such acts". As there was a need for a change due to varied reasons which includes several defects and the changing requirements of our food industry, the Parliament enacted the Food Safety and Standards Act, 2006. The food laws in India have been formulated with a view to check the rampant cases of food adulteration.

Apart from these Acts and Regulations, under The Indian Penal Code, 1860 there are provisions which deal with the food adulteration which is provided under chapter XIV of the code, which lays down provisions dealing with the 'offences affecting the public health, safety, convenience, decency and morals. Section 27218 and 27319, of the code deal with the food or drink adulteration or sale of such food or drink is an offence punishable with an imprisonment which may extend to six months or fine or both. However, some states like West Bengal and Uttar

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Pradesh considered it to be insufficient punishment and made the amendments in the provisions with respect to punishment in the year 1970. The state amendment made the offence punishable with imprisonment for life along with the liability of fine.

Punishment for food adulteration under FSSAI

The FSSAI regulations provide for various punishments to persons who adulterate food or food products as under:

- Import, manufacture, storage, sale or distribution of any food article which is adulterated by allowing its quality or purity to fall below the prescribed standard, or is misbranded, or in contravention of any provision of the Act or Rules. The penalty for this offense is a minimum imprisonment of six months that may extend up to 3 years and a minimum fine of Rs 1000.
- Import, manufacture, storage, sale or distribution of any adulterant not injurious to health. Penalty is minimum imprisonment of six months that may extend up to 3 years and minimum fine of Rs 1000.
- Preventing a Food Inspector from taking a sample or exercising his Penalty is minimum imprisonment of six months that may extend up to 3 years and minimum fine of Rs 1000.
- Giving a false warranty in writing in respect of any food article. Penalty is minimum imprisonment of six months that may extend up to 3 years and minimum fine of Rs 1000
- Import, manufacture, storage, sale or distribution of any food article which is adulterated or any adulterant which is injurious to health is being used is punishable under Law. Penalty is minimum imprisonment of one year that may extend up to 6 years and minimum fine of Rs 2000
- Sale or distribution of any food article containing any poisonous or other ingredients injurious to health, which
 is likely to cause death or grievous bodily harm. Penalty is minimum imprisonment of three years that may
 extend up to life and minimum fine of Rs 5000.

Conclusion

Food adulteration laws have been modernized with changing times and the need for society. There were eight acts for different foods which were repelled after the enforcement of the Prevention of Food Adulteration Act, 1954. As the Prevention of Food adulteration act, 1954 was not effective it was again repelled and The Food Safety and Standards Act, 2006 was introduced to consolidate the laws relating to food and to establish the Food Safety and Standards Authority of India for laying down science-based standards for articles of food and to regulate their manufacture, storage, distribution, sale and import, to ensure availability of safe and wholesome food for human consumption and matters connected therewith or incidental thereto. This act was effective as it promoted public health and supervision of food safety. Food is the basic need of humans which is responsible for the growth of the Human body with changing times food adulteration has also been increased, even after enforcement of The food safety standards act, 2006 the adulteration has not stopped and no severe changes as been seen, On the other hand, adulteration of food has been elevated due to COVID-19 pandemic. In Punjab 70 thousand liters of adulterated milk was seized in mid-April, the milk which was seized contained water and also chemicals. The reason for such adulterations is panic demand when the lockdown was imposed in India.

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