Many young children are thought by their parents to eat poorly. Although the majority of these children are mildly affected, a small percentage have a serious feeding disorder. Nevertheless, even mildly affected children whose anxious parents adopt inappropriate feeding practices may experience consequences. Therefore, pediatricians must take all parental concerns seriously and offer appropriate guidance. This requires a workable classification of feeding problems and a systematic approach. The classification and approach we describe incorporate more recent considerations by specialists, both medical and psychological. In our model, children are categorized under the 3 principal eating behaviors that concern parents: limited appetite, selective intake, and fear of feeding. Each category includes a range from normal (misperceived) to severe (behavioral and organic). The feeding styles of caregivers (responsive, controlling, indulgent, and neglectful) are also incorporated. The objective is to allow the physician to efficiently sort out the wide variety of conditions, categorize them for therapy, and where necessary refer to specialists in the field.

Parents of young children worldwide are concerned about feeding difficulties. When asked, more than 50% of mothers claim that at least 1 of their children eats poorly; this implicates ~20% to 30% of children. These perceived feeding problems encompass a broad range, from mild (so-called picky eating) to severe (as seen in autism). The pediatrician seeking to resolve these concerns needs a comprehensive approach, one that extends beyond the guidelines more suited for subspecialists and multidisciplinary teams, who are confronted by the more severe end of the spectrum: the so-called “feeding disorders” (Fig 1).

Feeding disorders are recognized in the psychiatric Diagnostic and Statistical Manual of Mental Disorders, Fifth Edition (DSM-V) and medical International Statistical Classification of Diseases and Related Health Problems coding systems. Classifications of these disorders dating back to the 1980s tend to reflect the discipline of the authors and often lack an agreed-upon nomenclature. Those from the pediatric medical community generally focus on well-defined organic conditions, but do not emphasize a systematic approach to behavioral issues. Classifications from the psychiatric field focus more on behavioral problems, whose diagnostic labels are necessarily “constructs,” (ie, models devised on the basis of clinical observation, subject to variability, but nonetheless affording opportunity to institute appropriate therapy).

Bryant-Waugh et al, as well as Kreipe and Palomaki, in excellent reviews explaining the most recent DSM-V classification, concluded that early childhood feeding disorders should be grouped under the umbrella term “avoidant/restrictive food intake disorder.” They recognize 3 fundamental, aberrant feeding behaviors: children eating too little,
Pediatricians should be aware that children, can have feeding difficulties that allow the pediatrician to conceptualize as a relational disorder between the feeder and the child and that the caregivers’ feeding styles must be conceptualized as a relational disorder between the feeder and the child and that the caregivers’ feeding styles must therefore be incorporated into the management of these problems.

The primary care provider needs an approach that (1) is straightforward and easy to use in the office setting, (2) integrates both organic and behavioral perspectives, (3) accounts for the wide spectrum of severity that both the child and feeder display, and (4) incorporates the impact of parenting and feeding styles. This article describes a comprehensive classification that recognizes the above issues and details a systematic screening and management sequence that allows the pediatrician to distinguish the key characteristics of each feeding difficulty and then provide appropriate management. Although our focus is on those children who resist oral feeding, the practitioner should keep in mind that well-nourished, and even obese children, can have feeding difficulties. Pediatricians should be aware that feeding difficulties often emerge during a child’s feeding transitions (moving from breast to bottle or cup, when complementary foods are introduced, or when self-feeding begins) and guidance during these developmental phases is particularly helpful.

**NOMENCLATURE**

An agreed-upon nomenclature is fundamental for any classification. The terms below, frequently used in the literature without uniformity, are used in this article as follows:

**Neophobia:** Defined as “the rejection of foods that are novel or unknown to the child.” Such rejection is seen in all omnivores and resolves with repeated exposures.

**Picky eating:** A moniker that has inconsistent definitions and meanings in different countries. Various criteria for picky eating are used by different authors and in some cultures include “fussy” children with poor appetite. Others view it as a mild form of more overt sensory disturbances. It generally connotes a mild or transient problem. Although it is not considered a “medical condition,” it requires the attention of the primary care provider.

**Feeding disorder:** A term connoting a severe problem that results in substantial organic, nutritional, or emotional consequences. It equates to avoidant/restrictive food intake disorder diagnoses in the DSM-V and the International Statistical Classification of Diseases and Related Health Problems, 10th Revision.

**Feeding difficulty:** A useful umbrella term that simply suggests there is a feeding problem of some sort. In essence, if the mother says there’s a problem, there is a problem.

**IDENTIFICATION OF FEEDING DIFFICULTIES**

Our approach to identifying and managing feeding difficulties is illustrated by the algorithm shown in Fig 2. If a parent voices concern about a child’s feeding, that is sufficient to require constructive resolution of the issue by the pediatrician. Additional features that may indicate a dysfunctional feeding interaction are listed in Table 1. When it is apparent that a potential feeding difficulty exists, a complete history and physical examination, including carefully done anthropometrics and a brief dietary assessment, are necessary with special attention to serious red flags, defined as medical and behavioral symptoms and signs that require prompt attention and in many instances referral for in-depth investigation/specialized treatment.

**Organic Red Flags**

Probably the most critical are indications of dysphagia and aspiration (Table 1). In the nonverbal child, dysphagia and odynophagia may present with food refusal. Features that suggest incoordinate swallowing may be overt (eg, coughing or choking). Aspiration can be “silent” or more subtle (eg, wheezing). Evaluation of dysphagia requires identifying which phase of deglutition (oral, pharyngeal, or esophageal) is disorganized and is best handled by oral motor specialists. Although generally less urgent, growth failure, diarrhea, and vomiting also need resolution. They necessitate consideration of the full range of causes, which might require help from a pediatric gastroenterologist.
failure to thrive is in many societies more often a feature of behavioral problems than of organic disease. Virtually every child suspected of organic disease might benefit from a basic laboratory evaluation (e.g., complete blood count, metabolic panel, sedimentation rate, or C-reactive protein and urine analysis). Screening for infections and conditions such as celiac disease has differing regional imperatives.

Behavioral Red Flags

Whether or not organic issues are identified, behavioral red flags should be sought because they may coexist. The behavioral red flags help select those children who will need more intensive and prompt support and are most likely to benefit from intervention by experts in behavior modification (Table 1). They also addressed the parents’ feeding style, noting that when it is forceful or mechanistic (independent of the child’s positive or negative feedback) feeding difficulties are likely. Complex problems with both organic and behavioral red flags will benefit from early referral to centers that have multidisciplinary feeding teams, when available. Milder cases improve with the services of a pediatric nutritionist.

CLASSIFICATION AND MANAGEMENT OF THE CHILD’S FEEDING DIFFICULTY

Our conceptualization of feeding difficulties is represented by a pyramid (Fig 1). Of the ~25% of children identified by parents to have feeding difficulties, only an estimated 1% to 5% at the apex meet criteria for a feeding disorder. The other ~20% of children are represented further down the pyramid. In this latter group, differentiating “normal” children with concerned parents from children with mild, but recognizable and treatable conditions is challenging, but necessary.

Our criteria for a practical, systematic classification of feeding difficulties are shown in Table 2. We classify children based on the parents’ expressed concerns about their child’s feeding/eating behavior, which fall into 3 principal categories: those not eating enough (limited appetite); those eating an inadequate variety of foods (selective intake); and those afraid to eat (fear of feeding). Each category has subcategories to acknowledge that such concerns may be a misperception on the part of the parents or primarily behavioral or organic, both with a spectrum ranging from mild to severe (Fig 2). Because feeding is a transaction influenced by both the child’s behavior and the parents’ feeding technique, we also include the 4 fundamental feeding styles.
TABLE 2 Criteria for an “Ideal” Classification of Feeding Difficulties

<table>
<thead>
<tr>
<th>Systematically categorizes</th>
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<tbody>
<tr>
<td>• behavioral issues</td>
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<tr>
<td>• organic conditions</td>
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<tr>
<td>• caregiver feeding styles</td>
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<tr>
<td>Separates misperceived, mild, and severe conditions</td>
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<tr>
<td>Conditions are</td>
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<tr>
<td>• readily recognized</td>
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<tr>
<td>• identified by familiar and accurate terminology</td>
</tr>
<tr>
<td>• logically related to each other</td>
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<td>• manageable in number</td>
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Specific treatment options are available for each condition.

styles that have the potential to positively or negatively affect every feeding problem.

THE CHILD’S FEEDING DIFFICULTY

The following section describes the 3 fundamental feeding difficulties in a way that facilitates categorization and assessment of severity so as to select appropriate intervention. Implicit in the discussion is the idea that children may exhibit more than 1 feeding problem and the necessary interventions will then need to be prioritized.

Children With Limited Appetite

These children range from those who are eating appropriately, but appear to eat too little (misperception), to those with overt organic disease.

Misperceived

The most important characteristic of misperceived poor appetite is excessive parental concern despite normal growth. Parents commonly perceive genetically small children with correspondingly “small” appetites as poor eaters. Saarilehto et al4 drew attention to this possibility in a study of over 400 children in which 30% were described as poor eaters by their parents. The children were somewhat smaller than children in the control group. However, intake relative to body size was equivalent to normal eaters and appropriate to meet nutrient needs. Parents fail to appreciate that growth rate slows toward the end of the first year and into the second with a concomitant decrease in appetite. Misperception can be the basis of a feeding difficulty if anxious parents adopt inappropriate feeding practices.

The Energetic, Active Child With Limited Appetite

These children are repeatedly alluded to as nonorganic failure to thrive29,30 and nutritional growth retardation.31,32 Chatoor et al12,33 characterized them in detail and refer to them as having “infantile anorexia.” These problems develop during the transition to self-feeding; characteristically, these children are active, energetic, curious, and far more interested in playing and talking than eating. They refuse to remain seated during meals, eat small amounts, and frequently fail to gain weight. There is no underlying organic explanation. A hallmark is conflict between parent and child, which if unresolved may hinder the child’s ability to reach his or her optimal cognitive potential.34 This reflects conflict in the home environment, rather than low nutrient intake.35

The Apathetic, Withdrawn Child

These children are inactive, disinterested both in eating and their environment, and communicate poorly with their caregivers.36 They may appear undemanding37 and often fail to make eye contact, babble, or talk. They and their caregivers appear depressed and often interact poorly. Malnutrition is evident in these children. Malnutrition itself may be a cause of depression and anorexia, creating a vicious cycle in which anorexia and poor nutrition exacerbate each other.

Organic Disease

In our approach to identifying these children, we employ Burklow et al’s38 modification of Rudolph and Link’s9 classification to prompt consideration of the more relevant conditions: structural, gastrointestinal, cardiorespiratory, neural, and metabolic. A history and physical examination identify a significant percentage of these children, but a high degree of suspicion for conditions with subtle presentations is important (eg, food allergy and, in some regions, celiac disease). Conditions causing pain in response to feeding (eg, esophagitis, gastritis, more subtle motility disorders, and even constipation) are relevant. Gastroesophageal reflux is a consideration, but is infrequently the root of the problem,9 whereas eosinophilic esophagitis is emerging as a more prominent cause.40

Management of Limited Appetite

Treatment generally focuses on emphasizing the contrast between hunger and satiety. In the case of misperception, parents must be encouraged to accept the child’s own interpretation of hunger and satiety. This requires persuading them that the child is growing normally by demonstrating a normal growth pattern, explaining growth potential (using midparental height calculations41) and reviewing basic feeding guidelines (Table 3).

The energetic child with limited appetite needs help to recognize and respond appropriately to hunger and satiety. A feeding schedule that encourages hunger is essential: a maximum of 5 meals (including

TABLE 3 Feeding Guidelines for All Children

| Avoid distractions during mealtimes (television, cell phones, etc) |
| Maintain a pleasant neutral attitude throughout meal |
| Feed to encourage appetite |
| • limit meal duration (20–30 min) |
| • 4–6 meals/snacks a day with only water in between |
| Serve age-appropriate foods |
| Systematically introduce new foods (up to 8–15 times) |
| Encourage self-feeding |
| Tolerate age-appropriate mess |

Adapted from Kerzner.14
snacks) per day with nothing but water in between. Parents must model healthy eating, adhere to the feeding schedule, and set limits for mealtime behavior, including appropriate discipline. A mealtime “time-out” is often effective; parents offer the child attention in response to positive eating behavior, but withdraw attention by turning away when the behavior is unacceptable. Growth failure associated with poor appetite often necessitates enriching the diet calorically including the addition of nutritional supplements. Providing adequate nutrition and supportive interaction with an experienced feeder is sufficient to improve the apathetic child with limited appetite. This may be achieved through early childhood intervention programs or child protection services; sometimes this necessitates hospitalization.

With organic disease, the medical condition influencing appetite must be addressed and, if possible, resolved. Management is often complex requiring alternate feeding routes (eg, enteral tube or intravenous feeding, which further suppress appetite). Children who are considered to be selective range from those who are eating appropriately for their stage of development (misperception) to sensory-related aversions to organic disease.

Misperception

Neophobia is frequently misperceived by parents as inappropriate selectivity. However, it is a normal behavior that begins at the end of the first year of life, peaks between 18 to 24 months and eventually resolves. Most children accept new foods, especially bitter vegetables, only after repeated exposures. Children who are considered to be selective include a large amorphous group of children, often referred to as “picky eaters.” These children consume fewer foods than average. Wright et al found that as toddlers they tried the same number of foods as “nonproblem” eaters, but liked far fewer of them. Dovey et al noted that unlike neophobia, repeated exposure to rejected foods tends not to result in acceptance by picky eaters. These children typically grow and develop normally and have adequate energy and nutrient intakes. The major concern for them is not their nutrition, but family discord centered around coercive feeding and subsequent behavioral consequences. Chatoor et al reported that conflict around feeding resulted in a lower Bayley Mental Developmental Index independent of the child’s nutritional status. In a study of children defined by their parents as picky, Jacobi et al showed a higher incidence of subsequent behavioral problems, including anxiety, depression, aggression, and delinquency. The problem may well be bidirectional: poor behavior prompting coercive and indulgent feeding practices, which in turn aggravate the behavior and may result in long-term problems.

Highly Selective

Here the consequences are severe enough to consider it a feeding disorder. These children limit their diet to <10 to 15 foods. Chatoor refers to these children as having “sensory food aversions”: a refusal to eat whole categories of foods related to their taste, texture, smell, temperature, and/or appearance. This problem can interrupt development of normal oral motor skills. Some of these children may have additional sensory manifestations, including adverse responses to loud noises, bright lights, and textures on skin. Autism is an extreme example. Up to 90% of autistic children have feeding problems, the vast majority of whom are selective. In our experience, feeding difficulties have been the presenting issue in some autistic children and should be considered when there are questionable social interactions.

Management of Selectivity

With misperception, educating parents to have reasonable expectations and counseling them to consistently and repeatedly expose children to new foods is needed. Foods must often be offered 8 to 15 times without pressure to achieve acceptance. In the mildly selective child, other simple techniques may be needed, such as “hiding” pureed vegetables in sauces, using “dips” to enhance flavor, modeling eating, giving foods appealing names, involving children in food preparation, and presenting it in attractive designs. In contrast, the highly selective child frequently requires a more intense and systematic approach to increasing variety. Behavioral therapists have documented the effectiveness of a number of these methods (eg, offering a desired food contingent on the progressive acceptance of less desired foods). Often, “food chaining,” the replacement of 1 food with...
a similar one, is effective. In more severe cases, “fading” and “shaping” (gradually altering the taste, color, texture, and exposure to the food) are coupled with positive reinforcement. In children with delayed oral motor development, the oral motor therapist may also have a critical role.

Children with organic disease and those with autism are frequently resistant to treatment. They may be nutritionally vulnerable with more extreme eating behaviors. Treatment therefore is best managed by specialists and includes hunger induction coupled with nutritional supplementation and sensory integration approaches (eg, tactile exposure on skin, and then oral motor desensitization, and shaping and fading). In cases of hypoesthesia, strongly flavored foods and beverages may be better accepted and worth trying. Providing heightened oral sensation with spicy foods may improve incoordinate swallowing in some.

Children With Fear of Feeding

Any severely aversive feeding-related experience may cause fear of feeding. Such experience might be ongoing or conditioned by past events, justifying Chatoor's term “post traumatic.” Three distinct patterns are discernible: fear of feeding after a single event, notably choking; fear of feeding in the young child who has been subjected to painful or unpleasant oral procedures; and fear of feeding in children who are tube-fed or have missed feeding milestones, lack experience, and/or feel threatened when food is introduced orally.

Misperception

Some infants with excessive crying behavior are misperceived to be hungry and fearful of feeding as they resist the bottle or breast. Most of them are crying for other reasons, possibly an inability to calm themselves, so called disordered state regulation or colic. In almost all cases, they are receiving adequate amounts of food.

Fear of Feeding in the Infant

Painful feeding is surmised in an apparently hungry infant who eagerly starts feeding and then after a few swallows, rears off the nipple in apparent pain, but will eat contentedly when sleepy. In time, overt fear of feeding emerges and merely presenting the breast or bottle, approaching the feeding environment or high chair induces resistance and crying in these children.

Fear of Feeding in the Older Child

This is seen in the child who chokes, gags, or vomits on food and then ceases to eat, most often solids. This has been termed functional dysphagia, choking phobia, or phagophobia. Sometimes it is the result of a parent forcefully feeding the child, and frequently it can be severe enough to result in weight loss.

Organic

Any organic condition resulting in significant pain with feeding has the potential to cause a fear of feeding. Tube-feeding dependent children are a prominent example, as is odynophagia due to esophagitis. More subtle causes like gastroparesis and disordered small bowel motility are now associated with feeding problems.

Management of Fear of Feeding

The main goal is to reduce anxiety associated with feeding/eating. With misperception of the crying infant, the principal treatment is reassurance, a systematic appraisal and treatment of the causes of discomfort in the child as well as the alleviation of the feeder’s anxiety. When there is actual fear of feeding in an infant, pediatricians must identify and resolve the cause of pain and decondition the infant’s fear. Feeding can initially be done when the infant is starting to fall asleep, allowing establishment of a sleep-feeding schedule to provide adequate nutrition. The feeding environment and equipment may need to be altered to improve acceptance of foods. In some children, earlier transition to the cup or solid foods is helpful.

Reassurance is the key to recovery with fear of feeding in the older child. If initial counseling fails, then the use of anxiolytic medication, positive reinforcement with rewards, cognitive behavioral therapy, or psychiatric referral may be required. In addition, liquid oral supplements are often necessary to support the child nutritionally as textures are gradually advanced. In selected cases, contrast studies or endoscopy are warranted to exclude underlying pathology.

With organic disease, resolution may require the cause to be identified and treated. Often the original insult may have resolved and visceral hyperalgesia and/or anticipatory anxiety may persist. In enterally fed children, severe appetite suppression complicates the issue. These problems require more complex treatment, such as hunger induction, oral motor desensitization, and a gradual nontthreatening exposure to food, and in almost all instances should be referred to specialists competent in these approaches. Specialized techniques proven to be effective by behavioral therapists include distraction to avoid gagging, use of a chaser to overcome “pocketing” (food retained in the cheeks), following the mouth of the child with the spoon, or guiding the child physically to accept food. Recently, medications to suppress visceral hyperalgesia have helped establish normal feeding in tube-fed children.

THE CAREGIVER’S FEEDING STYLE

Parents’ actions alter a child’s eating behavior. Incorporating the
The influence of caregiver feeding styles is therefore an essential part of management. Parental feeding practices are based on 4 well-described parenting and feeding styles. These styles are influenced by cultural norms, parental concern, and child characteristics. We refer to the preferred style as responsive. The remaining 3 (controlling, indulgent, and neglectful) generally have negative consequences.

Responsive feeders follow the concept of a division of responsibility; the parent determines where, when, and what the child is fed; the child determines how much to eat. Responsive feeders guide the child’s eating instead of controlling it. They set limits, model appropriate eating, talk positively about food, and respond to the child’s feeding signals. A responsive feeder arranges the schedule to induce appetite or by rewarding the achievement of goals, but does not resort to unpleasant coercive techniques. This feeding style has been reported to result in children eating more fruits, vegetables, and dairy products and less “junk food,” resulting in a lower risk of becoming overweight.

Controlling feeders are common; approximately half of all mothers and a greater proportion of fathers employ these methods. These caregivers ignore the child’s hunger signals and may use force, punishment, or inappropriate rewards to coerce the child to eat. These practices initially appear effective, but become counterproductive, resulting in poor adjustment of energy intake, consumption of fewer fruits and vegetables, and a greater risk of under- or overweight.

Indulgent feeders cater to the child. They tend to feed the child whenever and whatever the child demands, often preparing special or multiple foods. This feeder feels it is imperative to meet the child’s every need, but by doing so ignores that child’s hunger signals and sets no limits. Consequences of these feeding practices include lower consumption of appropriate foods (eg, milk) that contain important nutrients and a disproportionate consumption of items high in fat, increasing the risk of becoming overweight.

Neglectful feeders abandon the responsibility of feeding the child and may fail to offer food or set limits. When feeding their infants, they may avoid eye contact and appear detached. Older toddlers are often left to fend for themselves. Neglectful parents ignore both the child’s hunger signals and other emotional and physical needs. They may have emotional issues, developmental disabilities, depression, or other conditions that make it difficult for them to feed their child effectively. Neglect may be severe enough to result in failure to thrive. In at least 1 study of older children, a greater risk of obesity was associated with these feeding practices.

Pediatricians can readily differentiate feeding styles by asking 3 questions: How anxious are you about your child’s eating? How would you describe what happens during mealtime? What do you do when your child won’t eat? Responses from neglectful parents will be vague; controlling parents will describe pressuring/forcing their child to eat. Indulgent parents will describe pleading, begging, and preparing special foods. Another way to assess mealtime interactions is to have the parents videotape part of it, something easily accomplished with smart phones.

General feeding guidelines (Table 3), which help caregivers become more responsive feeders and prevent counterproductive feeding practices, should be part of anticipatory guidance for all children. Pediatricians should adjust their instructions based on the parent’s feeding style. Controlling parents should be guided to offer foods in a noncoercive way, rather than on the specific amounts or types of foods to be given. Advice to indulgent or neglectful parents should be more structured and precise.

Time is at a premium during clinic visits; we have provided Supplemental Material of resources: books, articles, and Web sites that provide guidelines for anticipatory guidance, appropriate meal time interactions, nutrition ideas, and other tools.

DISCUSSION

Parents deserve guidelines to prevent and/or resolve feeding difficulties, whether mild or severe. Health care professionals, therefore, need a systematic approach to assessing and managing feeding difficulties in the primary care setting, where parents first seek help. The current classification reduces the diagnostic groups to 3, determined by parents’ presenting concerns, integrates both organic and behavioral subcategories in each group, and incorporates feeding styles into the evaluation. It should allow the practitioner to tailor therapy specifically to the problem, addressing both the child’s behavior and the parents’ feeding practices. Mild conditions should be resolved within the confines of the office. Severe feeding difficulties or feeding disorders may require specialists to resolve the problem. Proper classification facilitates more targeted referrals to the appropriate individual specialists or multidisciplinary teams.

Although the proposed classification makes treatment more manageable for pediatricians, some limitations remain. The 3 categories of feeding difficulties are supported by the literature. However, the subgroups within each category, although helpful in illuminating subtle differences important in management, fall on
a continuum without well-defined divisions. Also, children may have more than 1 feeding difficulty, and more than 1 medical condition, all of which complicate management.

The caregiver leaving the pediatrician’s office should have an understanding of whether the feeding problem is one of limited appetite, selectivity, fear of feeding, or a combination of them. Specific guidelines for mealtimes, feeding practices, and limit setting should be clear and based on the parent’s feeding style. Caregivers should also have the confidence to carry out the appropriate intervention, understand the risks of coercive feeding, and have reasonable expectations of goals and outcomes.

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A Practical Approach to Classifying and Managing Feeding Difficulties
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