

Introduction to ResourceLoader

Focus on easy gains for
Speed, localization and developer-friendliness

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Today's featured article



Jack Warner (1892–1978) was a Canadian-born American film executive who was the president and driving force behind the [Warner Bros. Studios](#) in Hollywood, Los Angeles, California. Warner's 45-year career was longer than that of any other traditional Hollywood studio mogul. He

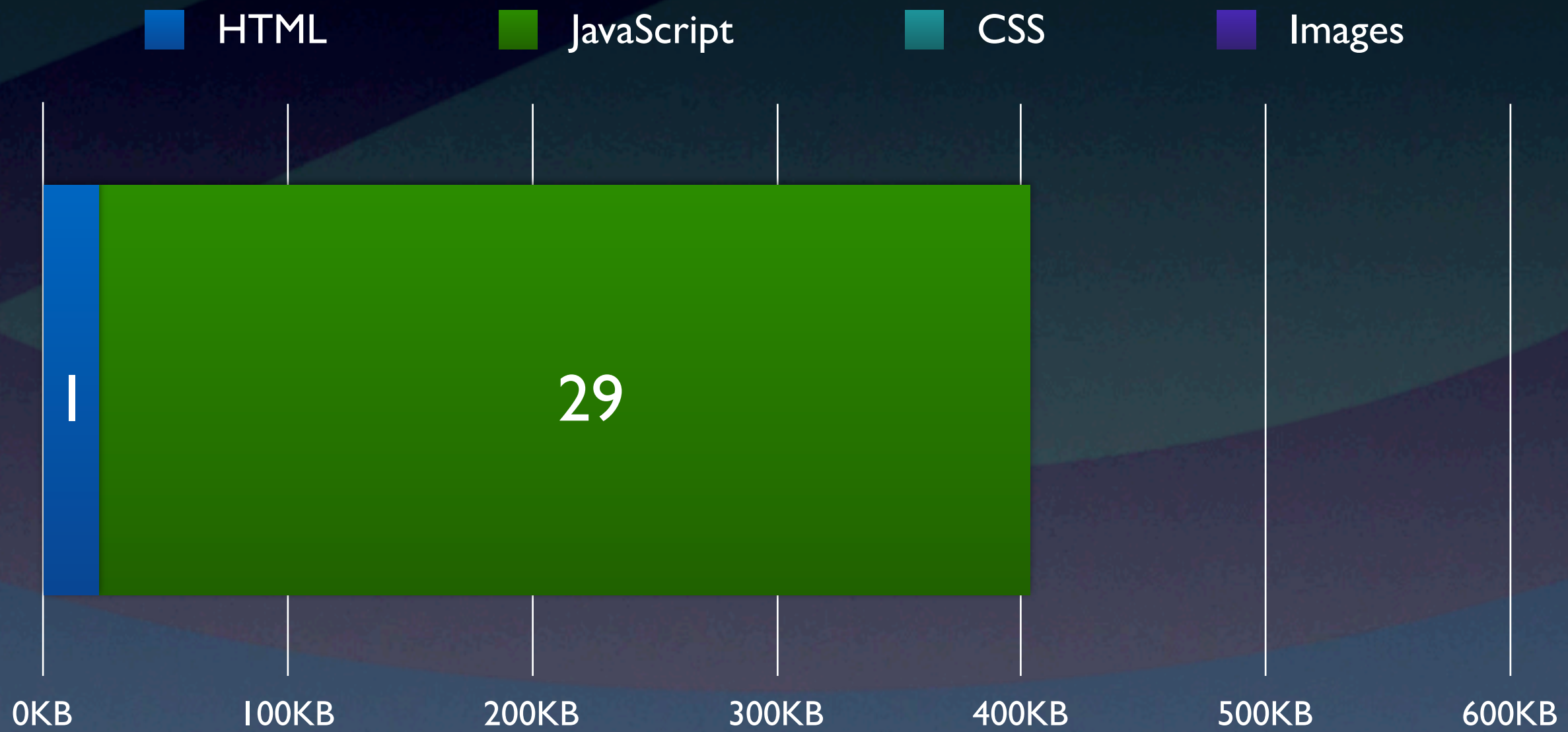
worked with his brother, [Sam Warner](#), to procure the technology for the film industry's first talking picture. Although Warner was feared by many of his employees and inspired ridicule with his uneven attempts at humor, he earned respect for his shrewd instincts and toughmindedness. He recruited many of Warner Bros.' top stars and promoted the hard-edged social dramas for which the studio became known. Although he was a

In the news

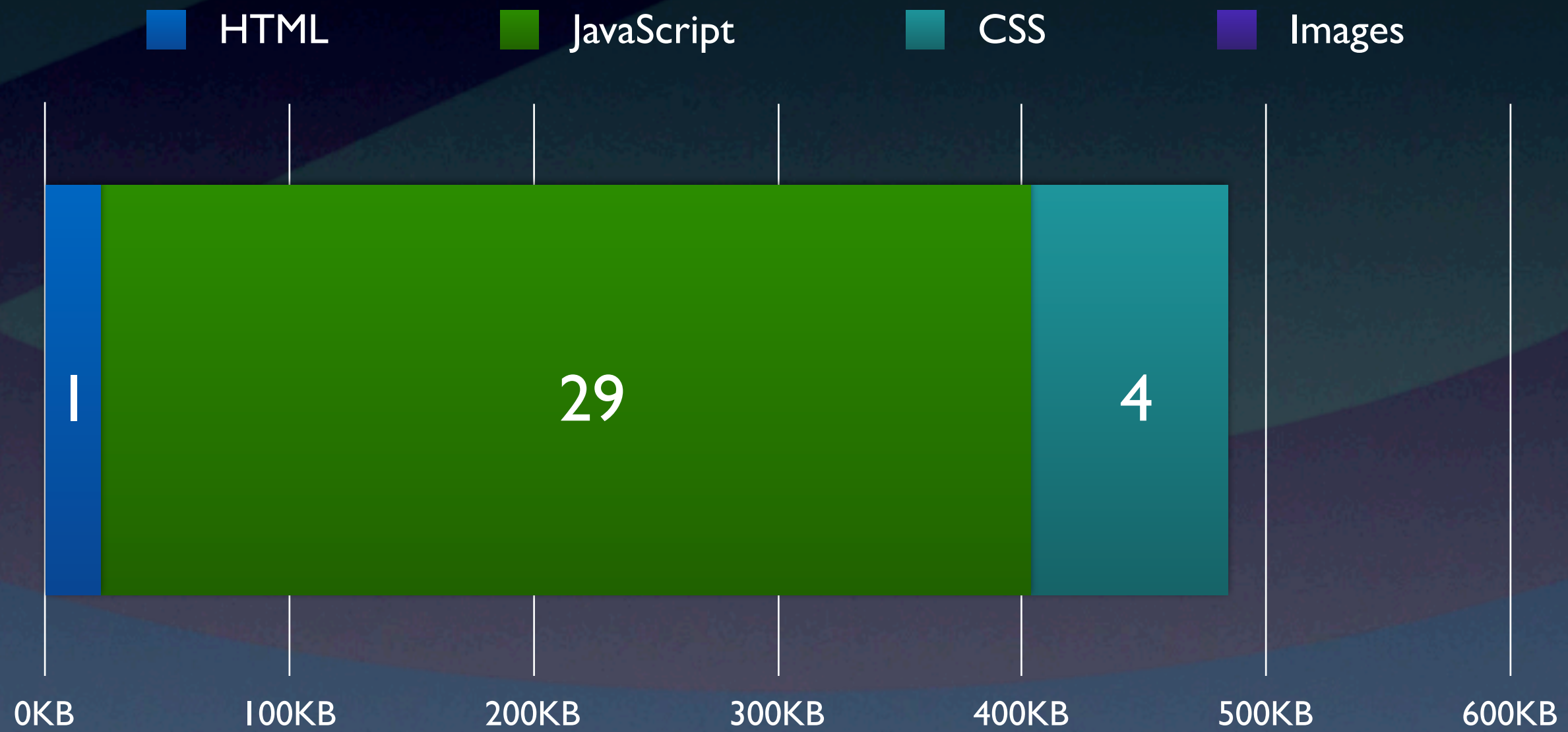
- Asteroid **2010 TK7** is confirmed as the first Earth trojan asteroid discovered.
- **Truong Tan Sang** becomes the new President of Vietnam and nominates Nguyen Tan Dung to another term as Prime Minister.
- In cycling, [Cadel Evans](#) (*pictured*) wins the **2011 Tour de France**, becoming the first Australian Tour de France winner.
- **Protests** against rising house prices in Israel continue, with thousands gathering in Tel Aviv and Jerusalem.
- Thousands of protesters [encounter](#)



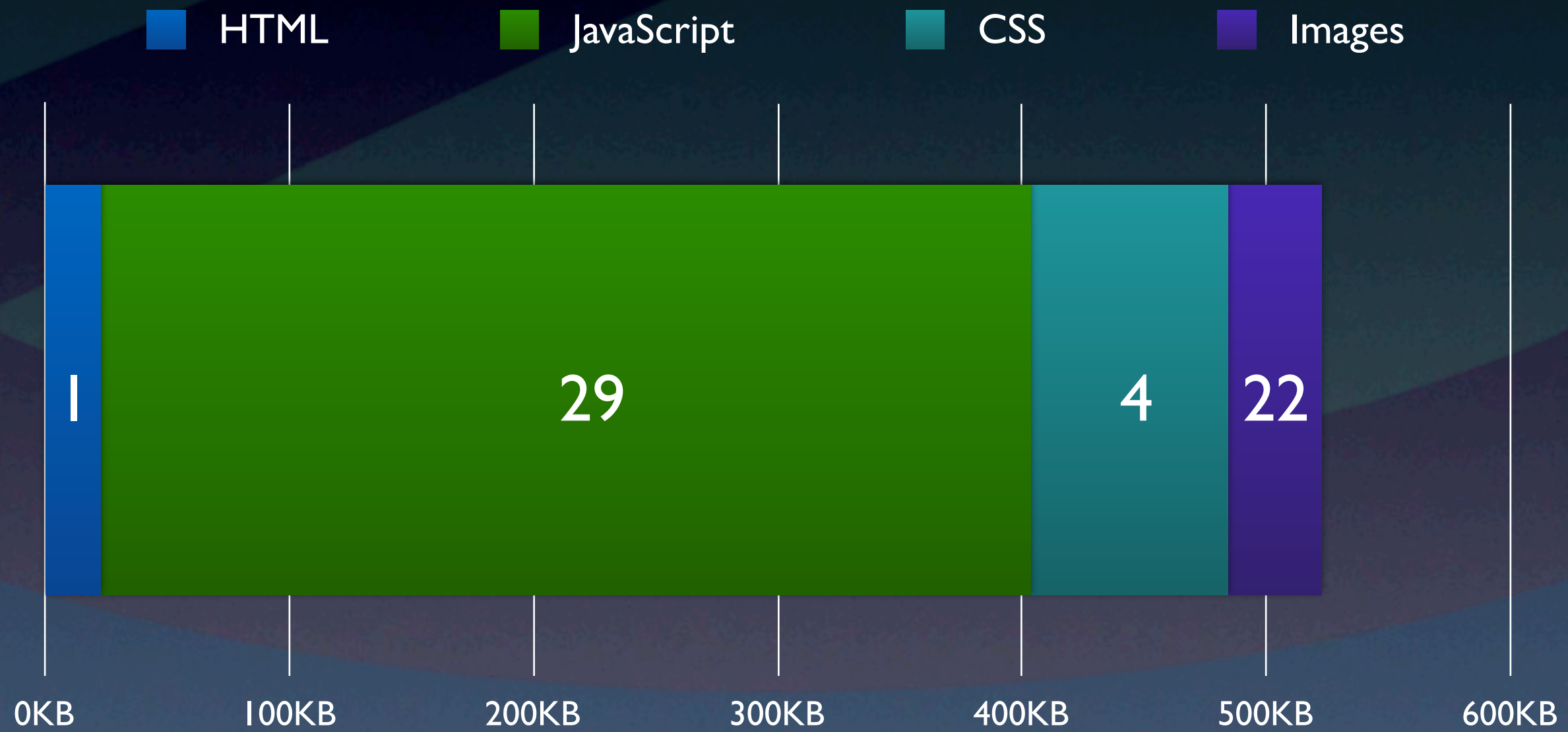
Resources



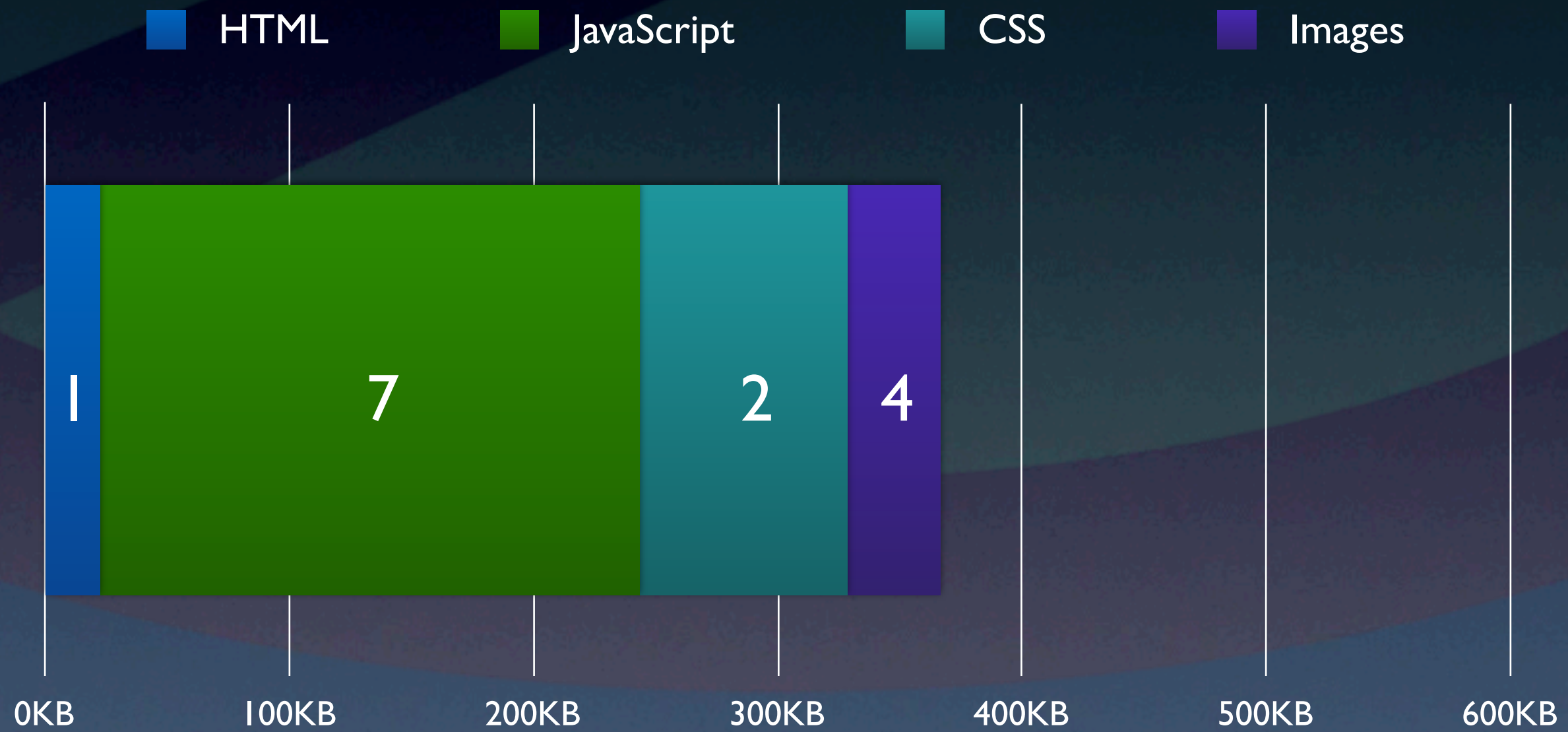
Resources



Resources



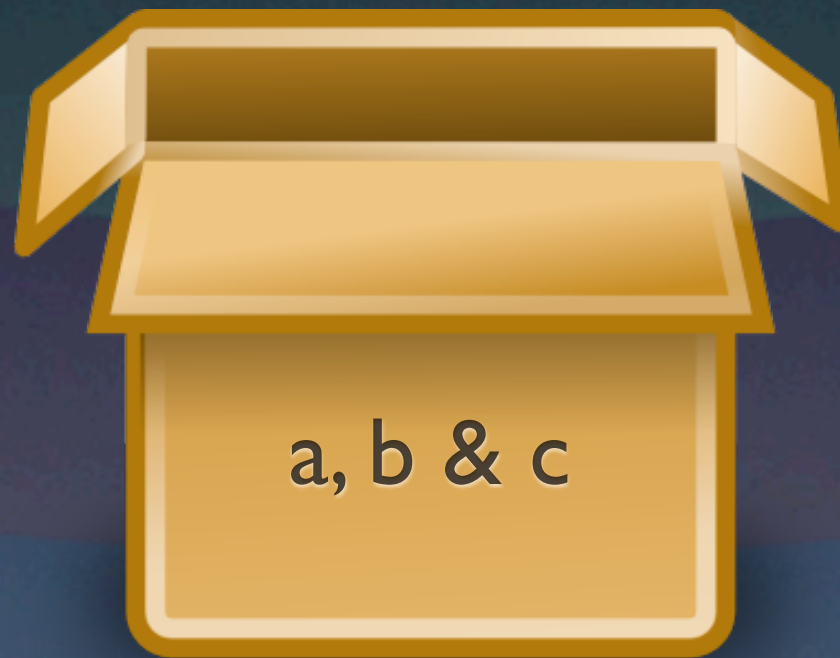
Resources



Modules



Modules



Example: Register a module



Example: Register a module

```
$wgResourceModules[ 'ext.Foobar' ] = array(
```

Example: Register a module

```
$wgResourceModules['ext.Foobar'] = array(  
    'scripts' => 'resources/ext.Foobar.js',
```

Example: Register a module

```
$wgResourceModules['ext.Foobar'] = array(  
    'scripts' => 'resources/ext.Foobar.js',  
    'styles' => 'resources/ext.Foobar.css',
```

Example: Register a module

```
$wgResourceModules['ext.Foobar'] = array(  
    'scripts' => 'resources/ext.Foobar.js',  
    'styles' => 'resources/ext.Foobar.css',  
    'messages' => array(  
        'foobar-title',  
        'foobar-welcome',  
        'foobar-intro',  
    ),  
),
```


Example: Register a module

```
$wgResourceModules['ext.Foobar'] = array(  
    'scripts' => 'resources/ext.Foobar.js',  
    'styles' => 'resources/ext.Foobar.css',  
    'messages' => array(  
        'foobar-title',  
        'foobar-welcome',  
        'foobar-intro',  
    ),  
    'dependencies' => array(  
        'jquery.ui.button',  
        'mediawiki.Title',  
    ),  
);
```

Images: Sprites. No ?



Images: Sprites. No ?

A screenshot of a web browser window. The address bar shows 'www.mediawiki.org/wiki/ResourceLoader'. The page title is 'ResourceLoader - MediaWiki'. The user is logged in as 'Krinkle'. The page content includes a yellow sunflower logo, a 'Page Discussion' dropdown menu, and buttons for 'Read', 'Edit', and 'View history'. A search box is visible on the right. The text 'ResourceLoader is a JavaScript/CSS delivery optimizing system' is partially visible at the bottom.

Schedule - Wikimania 2011 | x [sunflower] ResourceLoader - MediaWiki x +

← → ↻ www.mediawiki.org/wiki/ResourceLoader

Krinkle My talk My preferences My watchlist New messages (7)

[]
MediaWiki

Page Discussion Read Edit View history Search

ResourceLoader

ResourceLoader is a JavaScript/CSS delivery optimizing system

WMF engineering projec

Images: Sprites. No ?

A screenshot of a web browser window. The address bar shows the URL www.mediawiki.org/wiki/ResourceLoader. The page title is "ResourceLoader - MediaWiki". The user is logged in as "Krinkle" and has navigation links for "My talk", "My preferences", "My watchlist", and "New messages (7)". The page content includes the MediaWiki logo (a yellow sunflower) and a navigation bar with buttons for "Page", "Discussion", "Read", "Edit", "View history", and a search box. The main heading is "ResourceLoader".

Schedule - Wikimania 2011 | x [[sun]] ResourceLoader - MediaWiki x

← → ↻ [www.mediawiki.org/wiki/ResourceLoader](#)

Krinkle [My talk](#) [My preferences](#) [My watchlist](#) [New messages \(7\)](#)

ResourceLoader

Page [Discussion](#) [Read](#) [Edit](#) [View history](#) [★](#)

ResourceLoader

ResourceLoader is a JavaScript/CSS delivery optimizing system

WMF engineering project

Images: Sprites. No ?



A screenshot of a web browser window. The address bar shows 'www.mediawiki.org/wiki/ResourceLoader'. The page title is 'ResourceLoader - MediaWiki'. The user is logged in as 'Krinkle'. The page content includes a 'Page' dropdown menu set to 'Discussion', a 'Read' button, an 'Edit' button, a 'View' button, and a search box. The 'View' button has four star icons next to it, matching the ones in the inset image above. The page content starts with the heading 'ResourceLoader' and a paragraph: 'ResourceLoader is a JavaScript/CSS delivery optimizing system'. The MediaWiki logo is visible on the left side of the page.

Images: Sprites. No ?

A screenshot of a web browser window. The address bar shows "www.mediawiki.org/wiki/ResourceLoader". The page title is "ResourceLoader". The page content includes a navigation bar with "Page Discussion", "Read Edit View", and a search box. A yellow sunflower logo is visible on the left. The text "ResourceLoader is a JavaScript/CSS delivery optimizing system" is partially visible at the bottom. A small box highlights a blue star icon in the navigation bar.

Schedule - Wikimania 2011 | x [[sun]] ResourceLoader - MediaWiki x

← → ↻ www.mediawiki.org/wiki/ResourceLoader

Krinkle My talk My preferences My watchlist New messages (7)

MediaWiki

Page Discussion Read Edit View Search

ResourceLoader

ResourceLoader is a JavaScript/CSS delivery optimizing system

WMF engineering project

CSS: Data URI embedding



CSS: Data URI embedding

```
.foo {  
  /* @embed */  
  background-image: url(foo.png);  
}
```

CSS: Data URI embedding

```
.foo {  
  /* @embed */  
  background-image: url(foo.png);  
}
```



```
.foo {  
  background-image: url(data:image/png;base64,iVBORw0K...FTkSuQmCC);  
}
```

CSS: Flipping for RTL languages



CSS: Flipping for RTL languages

```
.foo {  
  float: left;  
  padding-right: 0.5em;  
  margin: 1px 2px 3px 4px;  
  background-image: url(foo-ltr.png);  
}
```




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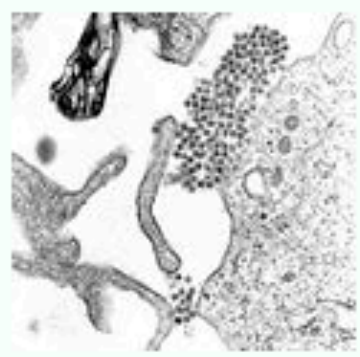
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Today's featured article



Dengue fever is an infectious tropical disease caused by the dengue virus. Symptoms include fever, headache, muscle and joint pains, and a characteristic skin rash that is similar to measles. Dengue is transmitted by several species of mosquito within the *Aedes* genus, principally *A. aegypti*. The virus has four different types; infection with one type usually gives lifelong immunity to that type, but only

short-term immunity to the others. Subsequent infection with a different type increases the risk of severe complications. As there is no vaccine, prevention is sought by reducing the habitat and the number of mosquitoes and limiting exposure to bites. Treatment of acute dengue is supportive, using either oral or intravenous rehydration for mild or moderate disease, and intravenous fluids and blood transfusion for more severe cases. The incidence of dengue fever has increased dramatically since the 1960s, with around 50–100 million people infected yearly. Early descriptions of the condition date from 1779, and its viral cause and the transmission were elucidated in the early 20th century. Dengue has become a worldwide problem since the Second World War and is endemic in more than 110 countries. (more...)

In the news

- After months of negotiations, the United States Congress raises the U.S. debt ceiling to avoid a projected default.
- Researchers announce the discovery of the largest known fungal fruit body, which exceeds 10 metres (33 feet) in length.
- Government forces crack down on protesters in Hama, a center of the Syrian uprising, killing more than 100 people.
- **Yani Tseng** (pictured) wins the Women's British Open, becoming the youngest golfer to win five major championships.
- A series of attacks, believed to be by the East Turkestan Islamic Movement, occurs in China's Xinjiang region, two weeks after similar attacks.



Horn of Africa famine
Wikinews – Recent deaths – More current events...

On this day...

August 5: International Beer Day; Independence Day in Burkina

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ויקיפדיה
האנציקלופדיה החופשית

ויקימניה – הכנס העולמי של ויקיפדיה, מתקיים כעת בחיפה, ישראל (4–7 באוגוסט). אנא הירשמו והגיעו

ברוכים הבאים לוויקיפדיה!

ויקיפדיה היא מיזם רב לשוני לחיבור אנציקלופדיה שיתופית, חופשית ומהימנה, שכולם יכולים לערוך. כעת יש בוויקיפדיה העברית 121,814 ערכים.

- מתמטיקה π
- מדעי החלל
- רפואה
- כלכלה
- דת
- מוזיקה
- ספורט
- פיזיקה
- טכנולוגיה
- גאוגרפיה
- מדע המדינה
- יהדות
- ספרות
- אמנות
- כימיה
- ביולוגיה
- מדעי החברה
- היסטוריה
- ישראל
- אישים
- מדינות העולם

פורטל היום



ערך מומלץ



שחפית הקוטב היא מין עוף ימי המשתייך לסוג שחפית שבמשפחת השחפיתיים. אתרי הרבייה של שחפית הקוטב נמצאים באזורים ארקטיים וסובארקטיים של אסיה, אירופה וצפון אמריקה. שחפית הקוטב היא מהמינים המיטיבים לנדוד בעולם החי: מדי שנה היא נודדת משטחי הרבייה הצפוניים שלה לאוקיינוס שבקרבת **אנטארקטיקה** וחזרה; זוהי הנדידה המחזורית הארוכה ביותר בין כל בעלי החיים.

אסטרטגיית הרבייה של המין היא גידול מספר מצומצם של צאצאים, המטופלים בצורה טובה ומוגנים היטב; ההורים מאכילים את האפרוחים בדגים למשך זמן רב, ומסייעים להם לעוף דרומה בחורף.

שחפית הקוטב היא עוף מאריך-חיים יחסית, ופרטים רבים מגיעים לגיל עשרים. הפרט המבוגר ביותר שתועד מת בגיל 34 שנים. תזונתה מתבססת בעיקר על דגים וחסרי חוליות ימיים קטני ממדים. המין נפוץ מאוד, ועל פי ההערכות השונות קיימים כמיליון פרטים. התנודות והמגמות החלות באוכלוסיית שחפית הקוטב אינן ידועות כהלכה, אך ידוע שבני האדם גרמו להקטנת האוכלוסיות באזורי התפוצה הדרומיים.

לערך המלא - מומלצים נוספים

- עמוד ראשי
- ברוכים הבאים
- שינויים אחרונים
- ערכים מומלצים
- פורטלים
- ערך אקראי
- תרומה לוויקיפדיה

- טיפ
- קהילה
- תיבת כלים
- דף זה בשפות אחרות
- הדפסה/יצוא

Startup Module

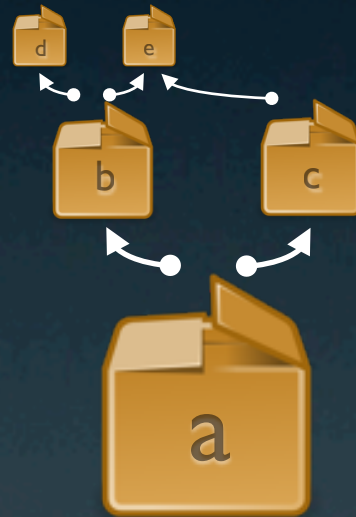


Startup Module



Sanity check

```
if ( IE5 ) { giveUp(); }
```



Dependencies

module manifest



Configuration

site-wide settings

Client-side Loader



Example: JavaScript wrapping



Example: JavaScript wrapping

```
mw.loader.implement( 'foo',
```

Example: JavaScript wrapping

```
mw.loader.implement( 'foo',  
  function() {  
    // Code for foo module  
    mw.Foo = { ... };  
  },
```

Example: JavaScript wrapping

```
mw.loader.implement( 'foo',  
  function() {  
    // Code for foo module  
    mw.Foo = { ... };  
  },  
  // CSS for foo module
```

Example: JavaScript wrapping

```
mw.loader.implement( 'foo',  
  function() {  
    // Code for foo module  
    mw.Foo = { ... };  
  },  
  // CSS for foo module  
  {  
    'all': '.foo{color:blue;background-image:url(data:image/  
png;base64,iVBORw0K...FTkSuQmCC);}',  
    'print': '.foo{display:none;}'  
  },  
);
```

Example: JavaScript wrapping

```
mw.loader.implement( 'foo',  
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  },  
  // messages for foo module
```

Example: JavaScript wrapping

```
mw.loader.implement( 'foo',  
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    mw.Foo = { ... };  
  },  
  // CSS for foo module  
  {  
    'all': '.foo{color:blue;background-image:url(data:image/  
png;base64,iVBORw0K...FTkSuQmCC);}',  
    'print': '.foo{display:none;}'  
  },  
  // messages for foo module  
  {  
    'foo-intro': 'This is an introduction to foo.',  
    'foo-msg': 'Hello $1, check out $2!'  
  }  
);
```

Example: Module loading



Example: Module loading

```
//example.org/w/load.php?modules=foo|bar&skin=vector&lang=en
```


Example: Module loading

```
//example.org/w/load.php?modules=foo|bar&skin=vector&lang=en
```

```
mw.loader.implement('foo',function(){mw.Foo={}};},{ 'all': '.foo{color:blue;background-image:url(data:image/png;base64,iVBORw0K...FTkSuQmCC);}', 'print': '.foo{display:none;}' }, {'foo-intro': 'This is an introduction to foo.', 'foo-msg': 'Hello $1, check out $2!'});mw.loader.implement('bar',...);
```

Thanks!

<http://wikitech.wikimedia.org/view/Presentations>

<http://bit.ly/wm11resourceloader>

<http://www.mediawiki.org/wiki/ResourceLoader>

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Trevor Parscal - [[User:Trevor Parscal]]

